



20 NOVEMBER 2015

# ANNUAL GROUNDWATER MONITORING REPORT (October 2014 and April 2015) ARTILLERY IMPACT AREA AND CENTRAL IMPACT AREA

## **Joint Base Lewis-McChord**

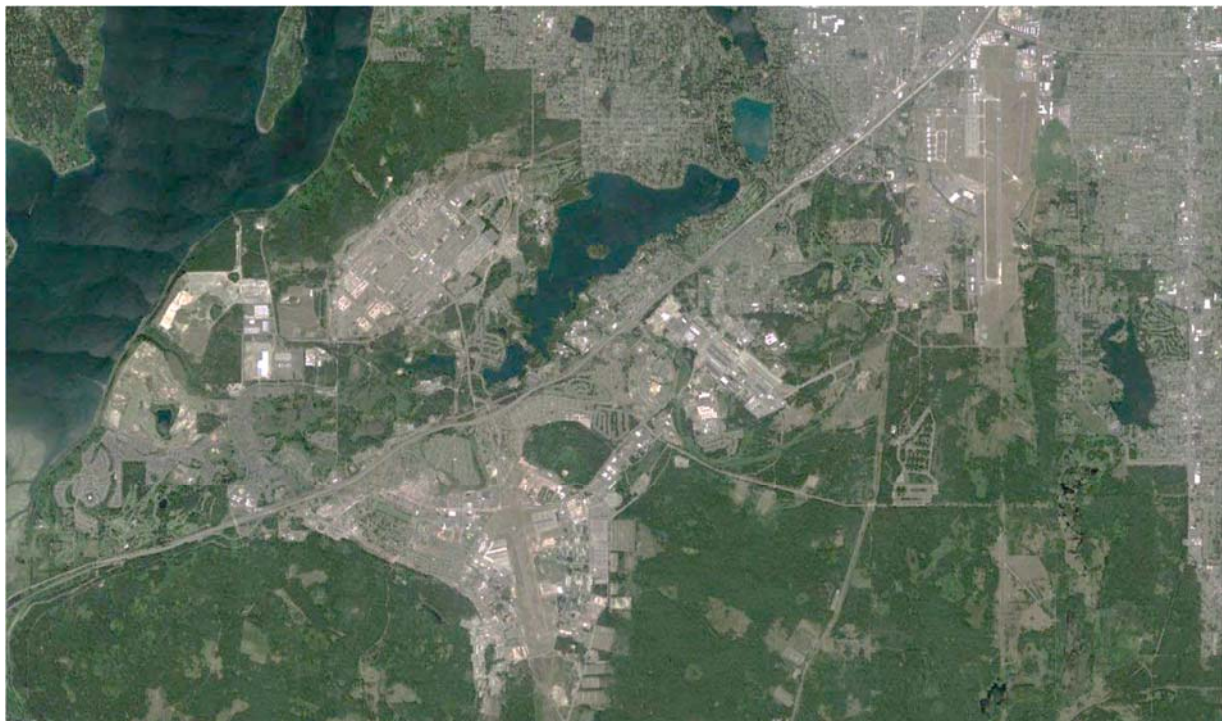
Pierce County, Washington

Joint Base Lewis-McChord Public Works – Environmental Division

IMLM-PWE

MS 17 Box 339500

Joint Base Lewis-McChord, Washington 98433



ANNUAL GROUNDWATER MONITORING REPORT  
(OCTOBER 2014 AND APRIL 2015)

ARTILLERY IMPACT AREA AND CENTRAL IMPACT AREA

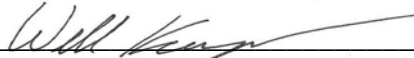
CONTRACT NO. W912DW-11-D-1031, TASK ORDER 0001

NOVEMBER 20, 2015

JOINT BASE LEWIS-MCCHORD  
PIERCE COUNTY, WASHINGTON

SEALASKA ENVIRONMENTAL SERVICES, LLC  
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## ACRONYMS AND ABBREVIATIONS

AIA	Artillery Impact Areas
CIA	Central Impact Areas
CLARC	Cleanup Level and Risk Calculation
Ecology	Washington Department of Ecology
EPA	Environmental Protection Agency
IDW	investigation derived waste
IRP	Installation Restoration Program
JBLM	Joint Base Lewis-McChord
µg/L	micrograms per liter
MTCA	Model Toxics Control Act
ND	non-detect
NELAP	National Environmental Laboratory Accreditation Program
PQL	practical quantification limits
RCRA	Resource Conservation and Recovery Act
RDX	Research Department Explosive
RPD	relative percent difference

## **1 INTRODUCTION**

This Groundwater Monitoring Report documents the October 2014 and April 2015 groundwater sampling events conducted at the Artillery Impact Area (AIA) and Central Impact Area (CIA), Joint Base Lewis-McChord, Washington (Figures 1-1 and 1-2). This is the 41st and 42nd rounds of sampling since the beginning of the AIA and CIA voluntary monitoring project in November 1999. This Groundwater Monitoring Report was prepared for Joint Base Lewis-McChord (JBLM) Public Works, Environmental Division by Sealaska Environmental Services, LLC (Sealaska). All work was completed in general accordance with the November 2005 Groundwater Monitoring Plan for Impact Areas (Bussey 2005). The October sampling event is considered the “dry” season event and the April event is considered the “wet” season event.

### **1.1 PROJECT BACKGROUND**

JBLM Public Works began conducting groundwater monitoring activities in the JBLM Impact Areas in 1999. Sealaska assumed responsibility of monitoring activities in 2014. Monitoring locations, past and current, include: 18 monitoring wells, five springs, and a kitchen sink at the Clear Creek fish hatchery, located west of the AIA (Figure 1-3). Nine upper Vashon Aquifer wells (98-IA-MW01 through 98-IA-MW04 and 98-IA-MW06 through 98-IA-MW10), one lower Vashon Aquifer well (98-IA-MW05), and one Sea Level Aquifer well (98-IA-MW11) were installed during a URS preliminary investigation conducted between 1998 and 1999 (URS 2000). Four upper Vashon Aquifer monitoring wells (01-IA-MW11 through 01-IA-MW14) and one Sea Level Aquifer well (01-IA-MW15) were installed in 2001. In addition, three existing upper Vashon Aquifer wells installed at other sites (MW-3-3138, PA-384, and MW-1-9700) are used for Impact Areas groundwater monitoring. Monitoring well construction details are presented in Table 1-1. The five springs (AIA-SP01 through AIA-SP05) are discharges of Vashon Aquifer groundwater at the Nisqually River bluff located along the west extent of the AIA.

URS conducted groundwater monitoring events in June 1999, November 1999, and April 2000. The Fort Lewis Water Program conducted quarterly groundwater monitoring events between August 2000 and April 2005. Groundwater samples were analyzed for nitroaromatics/nitramines, metals, and various inorganic parameters. Other important monitoring activities include: perchlorate sampling during the November 2000 and November 2002 groundwater monitoring events, surface water sampling during the first five monitoring events, sediment sampling, and comprehensive groundwater level surveys by URS. Based on results of monitoring activities it was determined that the only contaminant

of concern present in groundwater at the AIA is the explosive Research Department Explosive, also known as RDX.

The Fort Lewis Compliance Cleanup Program (now the Installation Restoration Program [IRP]) began conducting semi-annual groundwater sampling events for select monitoring locations and analytes in September 2005 in accordance with the November 2005 Groundwater Monitoring Plan (Bussey 2005).

Currently there are no Model Toxics Control Act (MTCA) Method A, B, or C groundwater cleanup levels for RDX. RDX concentrations detected in groundwater samples collected from monitoring wells, springs, and the Clear Creek fish hatchery kitchen sink are compared to Washington Department of Ecology's (Ecology) Cleanup Level and Risk Calculation (CLARC) Method B standard formula value for RDX in groundwater of 0.8 µg/L.

## 2 FIELD ACTIVITIES

An electronic water level indicator was used to measure depth to water to the nearest 0.01-foot from the top of the polyvinyl chloride or 'PVC' casing in monitoring wells. Standard low-flow purging procedures were used to purge water prior to sampling from each of the monitoring wells. Dedicated, submersible Grundfos Redi-Flo2 pumps with dedicated Teflon-lined polyethylene tubing were used for purging (except for 98-IA-MW05, in which a separate submersible pump was used). A variable frequency drive controller was used to limit the purging flow rate to less than one liter per minute. During purging, water levels were monitored with an electronic water level indicator and for water quality parameters: pH, specific conductivity, temperature, dissolved oxygen, turbidity, and oxygen-reduction potential using a pre-calibrated Horiba meter to verify stabilization. Groundwater samples were collected in un-preserved 1 liter amber bottles immediately after field measurements had stabilized. Water quality parameter data is presented in Table 2-1.

On October 20, 2014 depth to water was measured in monitoring wells: 98-IA-MW01 through 98-IA-MW05. Four monitoring wells (98-IA-MW01 through 98-IA-MW04) and five springs (AIA-SP01 through AIA-SP05) were sampled. Well 98-IA-MW05 did not contain enough water to be sampled in October 2014. All of the monitoring wells listed above are completed in the Vashon Aquifer and are located around the perimeter of the AIA. A duplicate sample was collected from 98-IA-MW02. A sample was also collected from the Clear Creek fish hatchery kitchen sink during this event.

On April 13, 2015 depth to water was measured in monitoring wells: 98-IA-MW01 through 98-IA-MW08 and 01-IA-MW11 through 01-IA-MW13. Five monitoring wells (98-IA-MW01 through 98-IA-MW05) and three springs (AIA-SP02, AIA-SP04, and AIA-SP05) were sampled. A duplicate sample was collected from 98-IA-MW03. Sealaska personnel were unable to gain access to the fish hatchery and spring AIA-SP01 due to a locked gate. On April 14, 2015, Sealaska personnel returned to the site and collected samples from spring AIA-SP01 and from the Clear Creek fish hatchery's kitchen sink.

Spring AIA-SP03 was unable to be sampled in April due to access and time issues. A permit, with a specified time limit, is required to access and remain on the portion of the site containing this sampling location. The sampling crew had difficulty locating this sampling point and completing the required sampling within the allotted timeframe.

Groundwater elevation iso-contours for both wet and dry season events are presented on Figure 1-3.



Samples were analyzed for nitroaromatics and nitramines using United States Environmental Protection Agency (EPA) Method SW846-8330. Samples were transported to ALS Laboratories, Inc. in Kelso, Washington at the end of the sampling event. Copies of completed field forms, analytical reports, and chain of custody forms are included in Appendix A.

Approximately 20 gallons of purge and decontamination water from all monitoring wells was held for sampling in a poly container at the Landfill 2 treatment area awaiting analysis. The water was sampled on April 27, 2015 and results were below cleanup criteria at 0.8 µg/L for RDX. On June 22, 2015, the water was transferred to the investigation derived waste (IDW) tank at the Landfill 2 treatment plant before discharge through the treatment system. Disposable personal protective equipment (e.g., nitrile gloves) and other garbage were disposed of in the Sealaska dumpster.

Historically, samples were analyzed every two years during the wet season sampling events for dissolved metals. Between seven and 15 samples have been collected from most monitoring wells since 1999. However, dissolved barium is the only Resource Conservation and Recovery Act (RCRA)-8 metal (i.e., arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) that has been consistently detected in groundwater samples. Currently there is no MTCA Method A cleanup level for barium. Consequently, analyzing groundwater samples for dissolved metals was discontinued starting with the April 2011 sampling event.

### **3 RESULTS**

This section presents RDX analytical results for all samples collected during the October 2014 and April 2015 sampling events.

#### **3.1 GROUNDWATER ELEVATIONS AND FIELD PARAMETER MEASUREMENTS**

Current and historical groundwater elevations and field parameter measurements are presented in Table 2-1. Groundwater elevations and elevation iso-contours for both events are presented on Figure 1-3. Groundwater flow is generally toward the west and discharges into the Nisqually Valley as springs along the Nisqually River bluff.

#### **3.2 ANALYTICAL RESULTS**

RDX was detected at the CLARC Method B cleanup level of 0.8 µg/L in AIA-SP04 during the dry season sampling event. RDX was not detected above the cleanup level in any other samples collected during the wet and dry season sampling events (Figure 3-1). Current and historical RDX and RCRA-8 metals concentrations are presented in Table 3-1. RDX concentration trends in selected monitoring wells (98-IA-MW01 through 98-IA-MW05 and 98-IA-MW07) are presented on Figure 3-2. These monitoring wells are located along the Nisqually Bluff between the AIA and springs. RDX concentration trends in springs (AIA-SP01 through AIA-SP05) are presented on Figure 3-3. Since groundwater flow is generally from the AIA to the springs, it is most likely that RDX will be detected in samples collected from these wells before being detected in the springs.

RDX concentration data from the June 23 and November 9, 1999 sampling events were not used when generating Figures 3-2 or 3-3 because the laboratory recording limit was at 1.0 µg/L which is above the cleanup level of 0.8 µg/L. Also, concentrations of RDX detected in samples collected from 98-IA-MW01, 98-IA-MW02, and 98-IA-MW04 in June 1999 have been rejected due to matrix interference at the laboratory.

## **4 DATA QUALITY REVIEW AND VERIFICATION**

### **4.1 PRECISION**

Precision was assessed via the relative percent difference (RPD) for field duplicate samples and for matrix spike duplicates. Sample AIA141020DUP1 was collected as a field duplicate for sample AIA14102098IAMW02 collected in October 2014 and AIA150413IAMW13 was collected as a field duplicate for sample AIA150413IAMW03 collected in April 2015. The RPDs for the two field duplicates are presented in Table 4-1. Field duplicate RPDs are within a reasonable range (i.e., < 50% for groundwater samples).

### **4.2 ACCURACY**

Accuracy was assessed by analysis of laboratory method blanks as well as recoveries in blank spikes, matrix spikes, and surrogates. The method blank was free of contamination. Recoveries for blank spikes, matrix spikes, and matrix spike duplicates were within the acceptable range specified in the November 2005 Groundwater Monitoring Plan (Bussey 2005). The surrogate recovery for sample AIA150414AIASP01 was outside of the recommended limits of control high. The result for RDX in the sample (0.21 µg/L) may be considered biased high. All other surrogate recoveries were within acceptable limits of control. All laboratory control sample recoveries were within acceptable limits of control.

### **4.3 REPRESENTATIVENESS**

Representativeness was assessed by evaluating the sample collection, sampling handling, and sample analysis procedures. All samples were collected, handled, and analyzed in accordance with the November 2005 Groundwater Monitoring Plan (Bussey 2005). In addition, all samples were extracted and analyzed within appropriate holding times.

### **4.4 COMPARABILITY**

Comparability was assessed by comparing current sample collection and analysis procedures with historical procedures. The samples were collected and analyzed with standard procedures and are comparable with other data.

### **4.5 SENSITIVITY**

Sensitivity was assessed by comparing actual practical quantification limits (PQLs) with expected PQLs listed in the November 2005 Groundwater Monitoring Plan. The actual PQLs were less than the expected PQLs listed in the November 2005 Groundwater Monitoring Plan (Bussey 2005).

#### **4.6 COMPLETENESS**

Completeness was assessed by calculating the percentage of acceptable sample results to all sample results. The completeness of the analytical data is 100 percent.

#### **4.7 CONCLUSIONS**

Manual integration was performed to correct the automated data program integration. The manual integration was performed in accordance with National Environmental Laboratory Accreditation Program (NELAP) and Department of Defense Quality Assurance/Quality Control protocol. This data is deemed acceptable for use as presented by the laboratory. No corrective action or additional data qualification beyond what is described above is necessary. A Data Review Report is included in Appendix A.

## 5 DATA ANALYSIS AND DISCUSSION

Analysis of RDX data was performed to help support interpretation and evaluation of RDX concentrations detected in groundwater. Summary statistics were calculated on all of the sampled monitoring wells and springs, as well as the fish hatchery using Microsoft Excel's Descriptive Statistics tool. Further statistical analysis was performed on data from monitoring wells and springs whose dataset did not have half or over half of their data points as non-detect. These included monitoring wells 98-IA-MW01 through 98-IA-MW04 and springs AIA-SP01 through AIA-SP04.

Shapiro-Wilk test for normality, linear regression analysis, and the Mann-Kendall test for trend were performed on the data using a Microsoft Excel add in; Analyse It. The Mann-Kendall test was performed on non-parametric RDX data. Statistical methods generally followed the guidelines presented in Helsel and Hirsch's *Statistical Methods in Water Resources* (2002).

All concentration measurements not known to be in error were considered valid. Suspect "outliers" were not removed from the data set and were included in the graphs. Non-detect (ND) data, which represent concentration measurements below the analytical reporting limits, were evaluated at the reporting limit value (i.e., if the reporting limit was below 0.1 µg/L then the concentration value was set at 0.1 µg/L).

Graph with the results of the statistical analyses are provided in Appendix B.

### 5.1 SUMMARY STATISTICS OF RDX CONCENTRATIONS

Table 5-1 presents summary descriptive statistics of RDX concentration data for each monitoring well, spring, and the kitchen sink at the Clear Creek fish hatchery. The summary includes the following:

- Well ID;
- First sample date;
- Last sample date;
- Number of samples in dataset;
- Number of NDs in dataset;
- Sample mean;
- Standard deviation;

- Minimum RDX concentration in dataset;
- Maximum RDX concentration in dataset;
- The date the sample with the maximum concentration of RDX was collected; and
- Dataset normally or log-normally distributed.

## **5.2 SHAPIRO-WILK TEST FOR NORMALITY**

Prior to analyzing RDX concentration data for trends, the data was tested for normal distribution. The null and alternate hypotheses are a summary of a test's objectives which in this case is to test for the data's distribution. The null hypothesis, or what is assumed to be true before given evidence that it may be false, for all tests for normality is that a dataset is normally distributed. The alternate hypothesis, then, is that a dataset is not normally distributed (Helsel and Hirsch 2002). A significance level, or alpha level, of 0.05 was used when determining whether concentrations from monitoring wells was normally distributed or not. P values, generated using the Shapiro-Wilk test for normality, were then compared to the alpha level. The alpha level is the "cutoff" point for the test statistic in making a decision whether the data was normally distributed or not. P values show the strength of the test in determining whether the data was normally distributed or not. P values range from 0 to 1, the closer a P value is to 1 the better the dataset is normally distributed. P values equal to or below 0.05 (alpha level) were not considered normally distributed.

Datasets that were not considered normally distributed were then transformed by taking the natural log of the original values. This is generally the most common transformation of water resources data. The Shapiro-Wilk test for normality was run on the transformed data with the same criteria as the datasets above. Results of the Shapiro-Wilk test are included in Table 5-2. Trends for RDX concentrations for 1999-2015 are provided in Figure 5-1.






## **5.3 LINEAR REGRESSION AND MANN-KENDALL TREND ANALYSES**

Linear regression trend analyses were conducted on RDX concentration data that was found to be normally or log normally distributed. This included data from monitoring well 98-IA-MW02 and springs AIA-03 and AIA-04. In this instance the null hypothesis for the test is that there is no trend in the data (Helsel and Hirsch 2002). The alpha level for the linear regression analysis was set at 0.05. P values generated by the analysis were then compared to the alpha level. P values less than the alpha value suggested a trend in the data. Results are presented in Table 5-2.

The Mann-Kendall test for trend was performed on data that was not normally or log-normally distributed (non-parametric data). This test was performed on data from

monitoring wells (98-IA-MW01, 98-IA-MW03, and 98-IA-MW04) as well as springs (AIA-SP01 and AIA-SP02). No assumptions need to be made about the distribution of the data in order to perform the Mann-Kendall test (Helsel and Hirsch 2002). The null hypothesis is the same as the linear regression test above in that there is no trend in the data. The alpha level for the Mann-Kendall analysis was set at 0.05. P values generated by the analysis were then compared to the alpha level. P values less than the alpha value suggested a trend in the data. Results are presented in Table 5-3.

Well locations and their current data trends (both linear regression and Mann-Kendall) are shown on Figure 5-1. Symbols for each monitoring well are colored depending on their data's trend and statistical significance as follows:

- Red – RDX concentrations are statistically increasing. 
- Yellow – RDX concentrations are increasing, however; not statistically. 
- Green – RDX concentrations are decreasing, however; not statistically. 
- Blue – RDX concentrations are statistically decreasing. 
- Clear – No statistical analysis was run on the data. 

Data were not analyzed for samples where half of the results were non-detect (clear symbol).

#### **5.4 TREND ANALYSES RESULTS**

The trend analyses results are as follow:

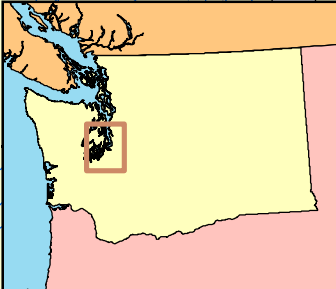
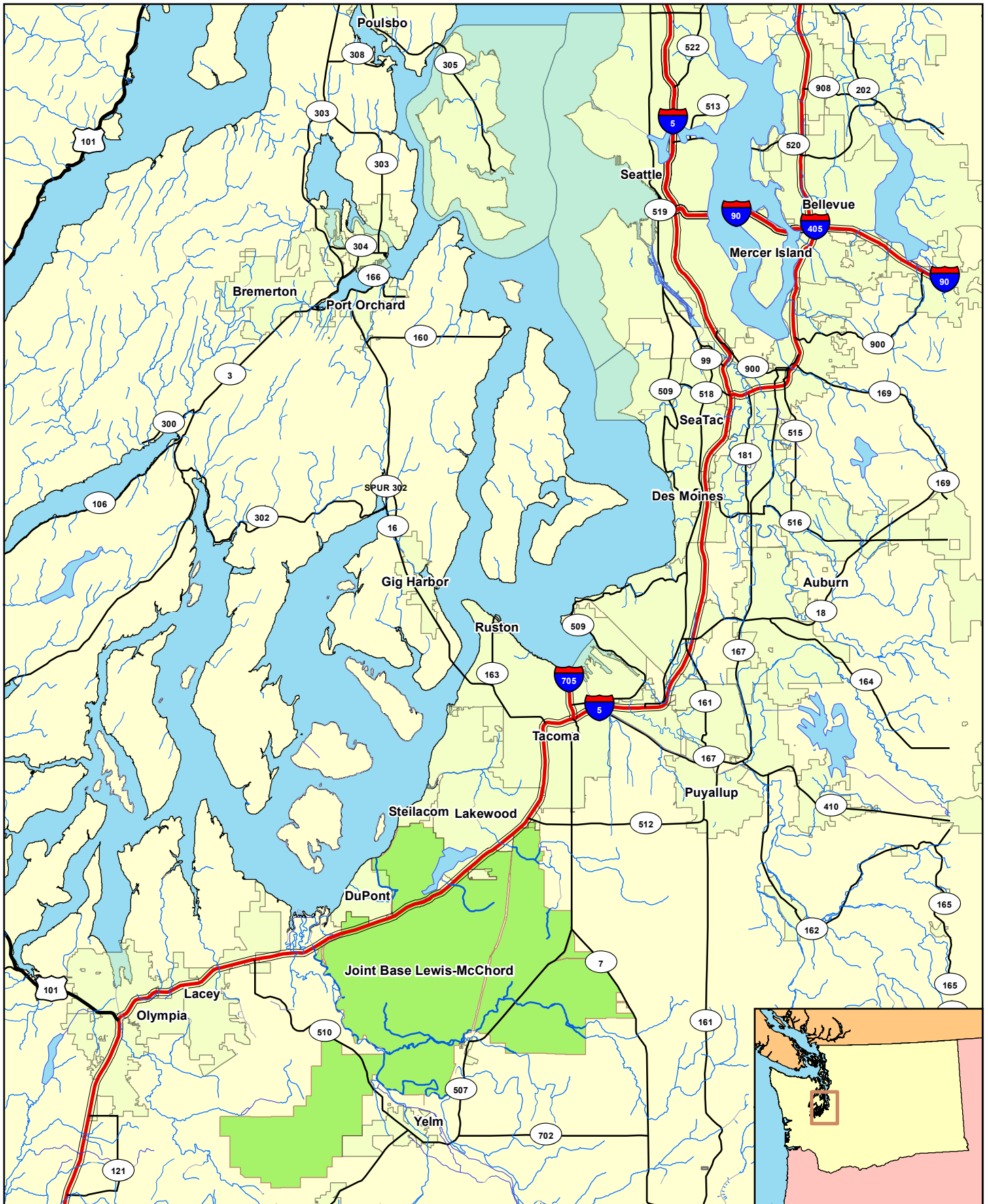
- Well 98-IA-05, the Clear Creek fish hatchery's kitchen sink, and spring AIA-SP05 were not evaluated because over half of their dataset's results were non-detect.
- Three monitoring wells (98-IA-MW01, 98-IA-MW-02, and 98-IA-MW04) had statistically decreasing trends in their data.
- One monitoring well (98-IA-MW03) had a statistically increasing trend in its data.
- Three springs (AIA-SP01 through AIA-SP03) had statistically decreasing trends in their data.
- One spring (AIA-SP04) had an increasing trend in its data; however; not statistically significant.

## 6 REFERENCES

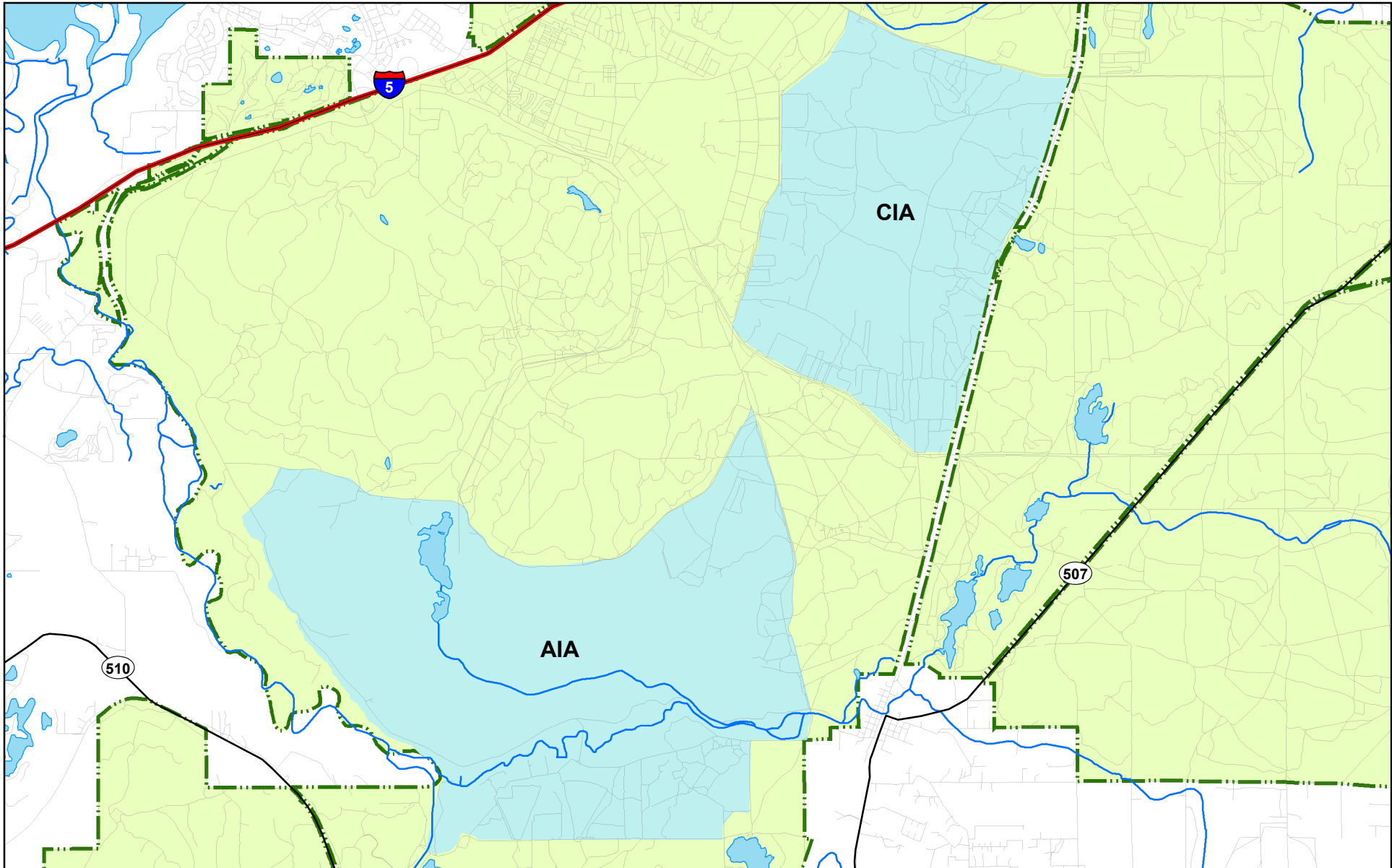
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Book 4 - Hydrologic Analysis and Interpretation. Techniques of Water – Resources  
Investigations of the United States Geological Survey.
- URS. 2000. Preliminary Investigation Report of Groundwater Monitoring for Munitions  
Contamination, Artillery Impact Area and Central Impact Area, Joint Base Lewis-  
McChord, Washington, June 2000.



## **FIGURES**




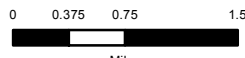
<p>Map Data:          Coordinate System: UTM Zone 10          Horizontal Datum: WGS 84</p> <p>0 0.5 1 2 3 4 Miles</p>	<p><b>USACE</b></p>	<p><b>SEALASKA</b></p>	<p><b>Figure 1-1          Joint Base Lewis-McChord          Location Map</b></p>	<p><b>Contract #          W912DW-11-D-1031          Task Order 0001</b></p>
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**Legend**

- Interstate
- State Route
- Streams
- Impact Area
- JBLM Boundary

Map Data:  
 Coordinate System: UTM, Zone 10  
 Horizontal Datum: WGS 84

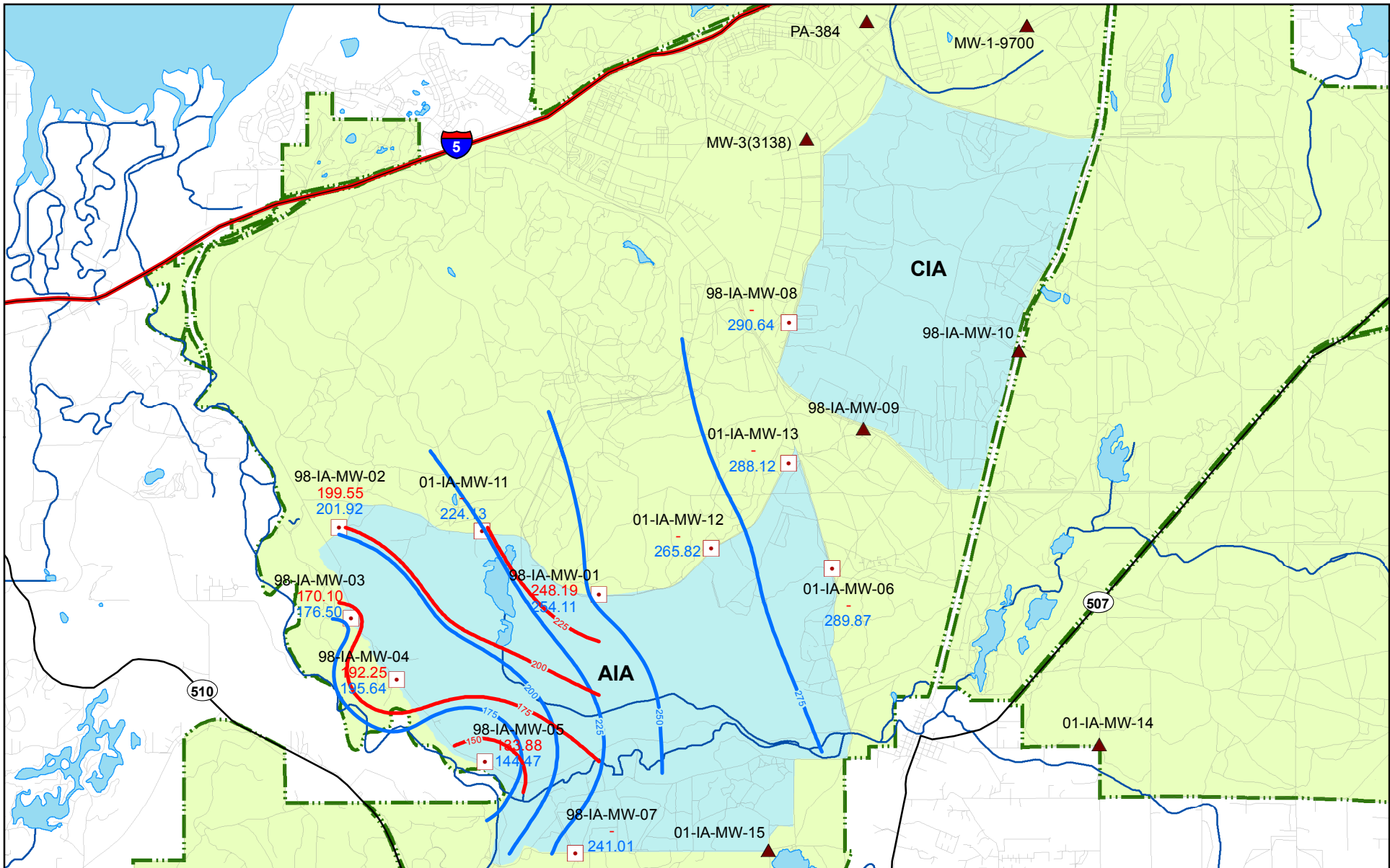

  


Miles

USACE

SEALASKA

Figure 1-2  
 Artillery Impact and  
 Central Impact Areas  
 Location Map



**Legend**

- Dry Season
- Wet Season
- Monitoring Well: DTW Measured
- Monitoring Well: Not Monitored
- Streams
- Impact Area
- JBLM Boundary

**Label ID**

- 98-IA-MW-03 - Well ID
- 170.10 - Dry Season WL
- 176.50 - Wet Season WL

**Map Data:**  
 Coordinate System: UTM, Zone 10  
 Horizontal Datum: WGS 84

0 0.425 0.85 1.7  
 Miles

**USACE**

**SEALASKA**

**Figure 1-3**  
**AIA Dry/Wet Season**  
**Water Table Contours**



**Legend**

- Monitoring Well
- Spring
- Streams
- Impact Area
- JBLM Boundary

**Label ID**

98-IA-MW-03 - Well ID

0.71C - Dry Season RDX (µg/L)

0.68C - Wet Season RDX (µg/L)

**Map Data:**

Coordinate System: UTM, Zone 10

Horizontal Datum: WGS 84

0 0.175 0.35 0.7

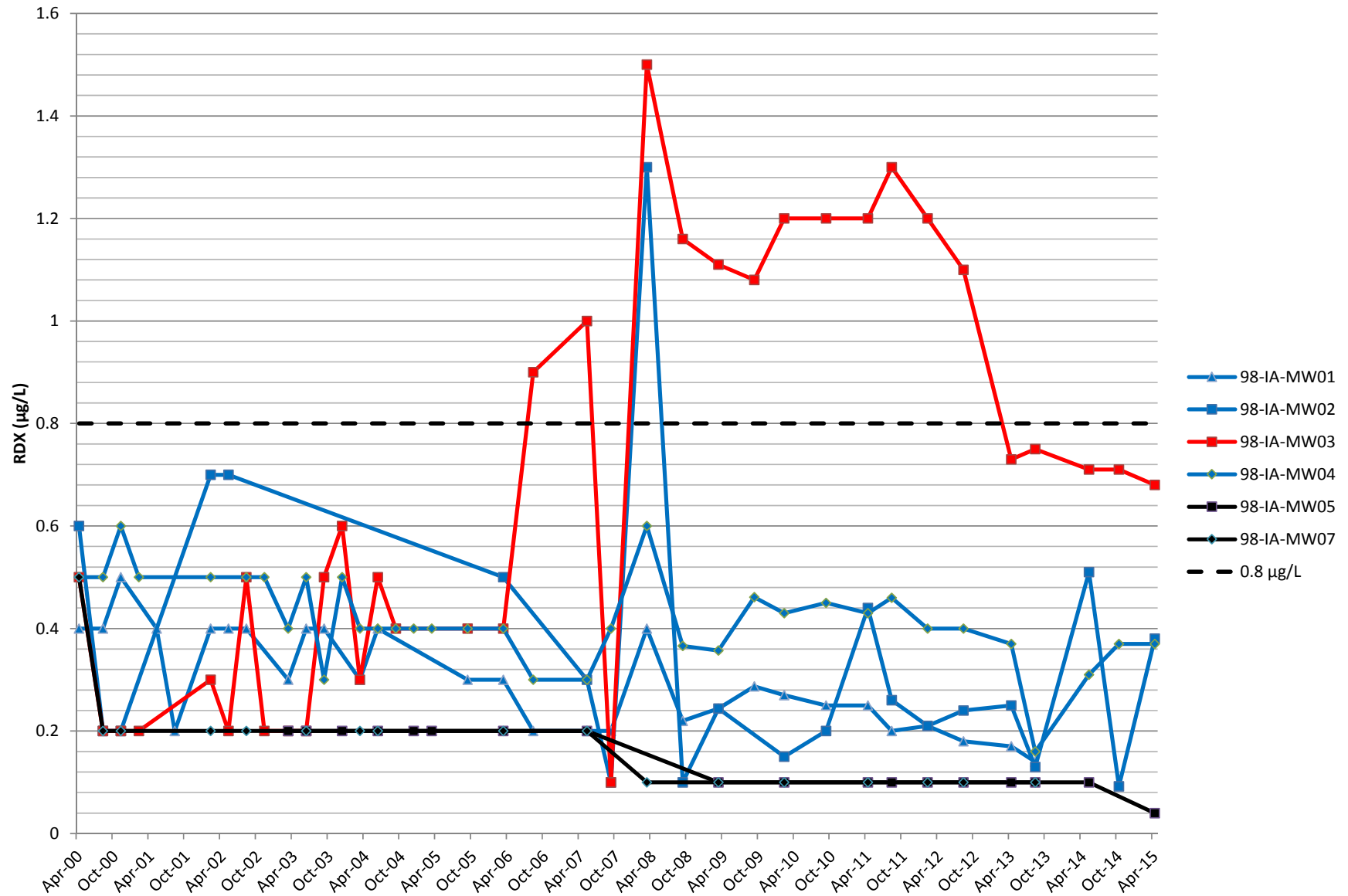
Miles

**USACE**

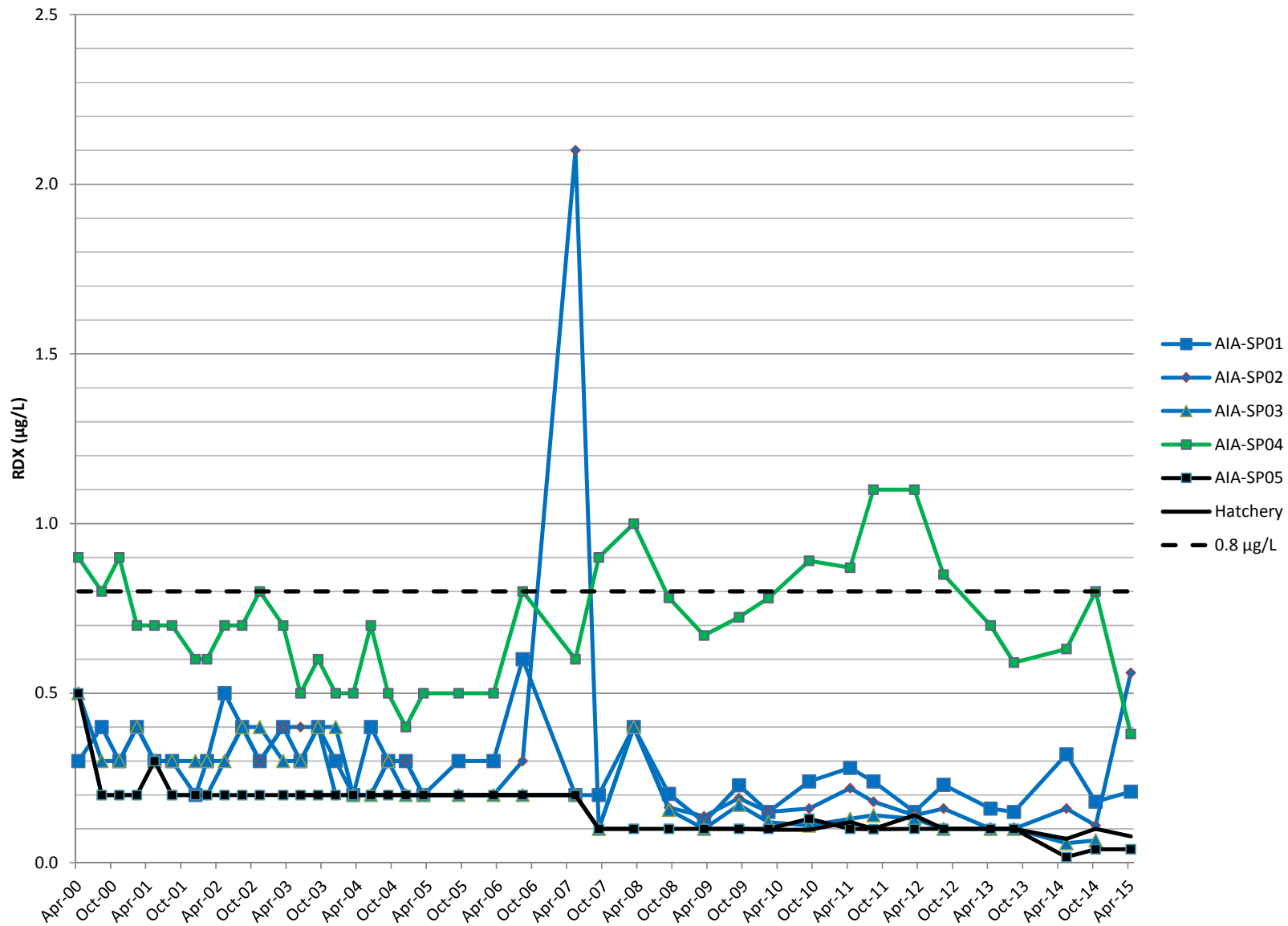
**SEALASKA**

**Figure 3-1**  
**AIA Dry/Wet Season**  
**RDX Concentrations**

Figure 3-2. Select Wells RDX Concentrations over Time



**Figure 3-3.** Spring and Hatchery RDX Concentrations over Time





**Legend**

- Statistically Significant Increasing Trend
- Not Statistically Significant Increasing Trend
- Not Statistically Significant Decreasing Trend
- Statistically Significant Decreasing Trend
- Data Not Analyzed
- Streams
- Impact Area
- JBLM Boundary

Map Data:  
 Coordinate System: UTM, Zone 10  
 Horizontal Datum: WGS 84

0 0.175 0.35 0.7  
 Miles

USACE

SEALASKA

Figure 5-1  
 AIA RDX Concentration  
 Current Trends  
 (1999-2015)



## **TABLES**

**Table 1-1 - Sampling Location Information and Monitoring Well Construction Details**

Artillery Impact Area, Joint Base Lewis-McChord, Washington

Location ID	Area ID	Easting UTM NAD 83	Northing UTM NAD 83	Elevation (ft AMSL)	Well Depth (ft bgs)	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Completion Date
98-IA-MW01	AIA - Central	529745.99	5208145.64	286.7	46	41	46	18-Dec-98
98-IA-MW02	AIA Downgradient	525635.10	5209346.77	235.4	40	35	40	10-Dec-98
98-IA-MW03	AIA Downgradient	525720.70	5208062.81	244.2	78	73	78	12-Feb-99
98-IA-MW04	AIA Downgradient	526747.86	5206522.07	246.9	63	58	63	18-May-99
98-IA-MW05	AIA Downgradient	527552.17	5205614.88	257.1	122	117	122	31-Mar-99
98-IA-MW06	AIA Upgradient	533338.82	5208747.59	321.9	45	39.5	44.5	20-Dec-98
98-IA-MW07	AIA Downgradient	529258.70	5203982.70	291.0	55	50	55	27-Feb-99
98-IA-MW08	CIA Downgradient	532768.17	5212371.19	322.8	43	38	43	7-Jan-99
98-IA-MW09	CIA Downgradient	533995.06	5210687.78	333.0	50	44.25	49.25	20-Nov-98
98-IA-MW10	CIA Upgradient	536477.37	5211971.73	355.0	39	34	39	6-Jan-99
01-IA-MW11	AIA Downgradient	527746.49	5209147.04	266.78	65.5	59	64	18-Oct-01
01-IA-MW12	AIA Upgradient	531313.03	5208918.78	289.43	53.7	47	52	19-Oct-01
01-IA-MW13	AIA Upgradient	532539.91	5209774.75	315.43	69.6	62	67	22-Oct-01
01-IA-MW14	AIA Upgradient	537447.46	5205780.23	394.39	48	42.5	47.5	23-Oct-01
01-IA-MW15	AIA Downgradient	532311.65	5203982.70	363.61	208	203	208	17-Oct-01
85-PA-384	CIA Upgradient	534021.11	5216983.40	279.15	60.5	50.5	60.5	24-Jan-86
9700-MW1	CIA Upgradient	535818.16	5216704.44	277.68	20.08	5	20	9-Jan-96
MW-3(3138)	CIA Upgradient	533024.96	5215338.54	288.29	23	8	23	7-May-97
AIA-SP01	AIA Downgradient	524892	5208975	220	-	-	-	-
AIA-SP02	AIA Downgradient	525558	5208127	200	-	-	-	-
AIA-SP03	AIA Downgradient	526012	5207310	148.3	-	-	-	-
AIA-SP04	AIA Downgradient	526769	5206221	163.4	-	-	-	-
AIA-SP05	AIA Downgradient	528463	5205071	240	-	-	-	-
Hatchery	AIA Downgradient	-	-	-	-	-	-	-

Notes:

PA-384 = Madigan Army Medical Center monitoring well

9700-MW1 = 9700 block monitoring well

MW-3(3138) = Building 3138 monitoring well

AIA-SP01 = Artillery Impact Area spring 01

Hatchery = Tap water sample taken from fish hatchery kitchen sink

ft AMSL = Feet above mean sea level

ft bgs = Feet below ground surface

- = No data, not applicable

Area ID = Monitoring wells are located along the perimeter of either the Artillery Impact Area (AIA) or Central Impact Area (CIA). Downgradient or upgradient is the relative position of the monitoring well to either the AIA or CIA depending on groundwater flow.

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
98-IA-MW01 286.7	1-Jun-99	33.39	253.31	6.71	0.071	-	9.76	17.68	-
	1-Nov-99	38.4	248.3	6.53	0.067	-	11.54	12.95	-
	1-Apr-00	32.45	254.25	6.04	0.087	-	9.62	18	-
	1-Nov-00	36.8	249.9	6.4	0.087	-	9.7	12.2	-
	1-Aug-01	39.3	247.4	-	-	-	-	-	-
	5-Mar-02	48.7	238	6.23	0.101	-	10.54	11.6	-
	3-Jun-02	34.18	252.52	5.85	0.074	-	9.32	11.4	-
	26-Aug-02	37.3	249.4	5.86	0.069	-	11.36	11.5	-
	10-Mar-03	40.9	245.8	-	0.071	-	10.77	11.5	-
	3-Jun-03	35.9	250.8	6.7	0.08	-	9.6	12	-
	18-Sep-03	39.48	247.22	6.63	0.076	-	-	11.8	-
	5-Mar-04	36.04	250.66	6.2	0.077	-	9.82	11.4	-
	7-Jun-04	36.87	249.83	7.06	0.077	-	-	11.6	-
	21-Mar-05	39.41	247.29	5.73	0.072	-	-	11.6	-
	27-Sep-05	39.41	247.29	6.57	0.077	6	6.9	12.6	-
	27-Mar-06	31.6	255.1	5.97	0.061	-	-	12.6	-
	7-Aug-06	36.88	249.82	6	0.071	1	-	13	-
	2-May-07	31.61	255.09	6.54	0.073	1	-	11.9	-
	17-Sep-07	37.68	249.02	5.52	0.071	22	-	14.2	-
	24-Mar-08	34.68	252.02	7.27	0.075	10	-	12.2	-
	16-Sep-08	39.82	246.88	4.96	0.075	10	0.25 *	12.4	-
	9-Mar-09	37.2	249.5	6.83	0.078	10	10.57	11.8	304
	28-Sep-09	39.37	247.33	6.7	0.079	19	10.35	11.6	139
	26-Feb-10	35	251.7	6.5	0.081	1	10.5	11.7	133
	13-Sep-10	36.92	249.78	6.11	0.079	41	9.07	11.6	192
	4-Apr-11	31.91	254.79	4.9	0.082	1	10.1	11.4	347
	2-Aug-11	34.65	252.05	4.83	0.079	10	10.6	11.5	370
	27-Feb-12	36.63	250.07	7.05	-	-	-	11.6	17
	6-Aug-12	35.16	251.54	7.78	-	-	-	12.4	9
	20-Apr-13	34.4	252.3	7.46	0.067	-	12.5	11.6	22
26-Aug-13	37.75	248.95	6.45	0.079	-	12.08	11.4	24	
12-May-14	30.78	255.92	6.39	0.011	-	12.99	11.1	29	
20-Oct-14	38.51	248.19	6.24	0.098	0.2	10.86	14.43	298	
13-Apr-15	32.59	254.11	6.33	0.111	3.7	10.15	12.74	160	
98-IA-MW02 235.4	1-Jun-99	32.95	202.45	6.76	0.071	-	6.99	18.65	-
	1-Nov-99	34.9	200.5	6.46	0.092	-	10.01	12.31	-
	1-Apr-00	33.09	202.31	6.12	0.102	-	8.2	15.78	-
	1-Nov-00	35.65	199.75	6.73	0.093	-	7.35	12.2	-
	1-Feb-01	34.69	200.71	-	-	-	-	-	-
	1-May-01	Dry	-	-	-	-	-	-	-
	1-Aug-01	Dry	-	-	-	-	-	-	-
	5-Mar-02	34.15	201.25	6.1	0.082	-	8.9	12.8	-
	29-May-02	34.35	201.05	5.77	0.072	-	7.59	11.9	-
	26-Aug-02	35.45	199.95	-	-	-	-	-	-
	10-Mar-03	Dry	-	-	-	-	-	-	-
	5-Mar-04	35.42	199.98	-	-	-	-	-	-
	27-Sep-05	Dry	-	-	-	-	-	-	-
	27-Mar-06	33.22	202.18	5.82	0.066	-	-	12.6	-
	7-Aug-06	Dry	-	-	-	-	-	-	-
	2-May-07	32.96	202.44	6.86	0.068	13	-	12.3	-
	17-Sep-07	35.33	200.07	5.68	0.002	-	-	12.8	-
24-Mar-08	34.58	200.82	7.23	0.086	7	-	12.8	-	

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)	
98-IA-MW02 cont.	16-Sep-08	35.7	199.7	4.71	0.086	10	1.64 *	12.8	-	
	9-Mar-09	35.5	199.9	-	-	-	-	-	-	
	28-Sep-09	35.66	199.74	-	-	-	-	-	-	
	26-Feb-10	34.9	200.5	6.44	0.083	-	8.03	12.8	182	
	13-Sep-10	35.12	200.28	5.92	0.085	3	5.6	11.9	212	
	4-Apr-11	32.95	202.45	4.6	0.081	-	6.72	12.3	133	
	2-Aug-11	34.11	201.29	5.25	0.08	-	1.19 *	11.7	293	
	27-Feb-12	35.01	200.39	7.04	-	-	-	12.6	18	
	6-Aug-12	34.42	200.98	7.62	-	-	1.96	12.5	13	
	20-Apr-13	34	201.4	7.8	0.074	-	1.96	12.7	8	
	26-Aug-13	35.35	200.05	6.16	-	-	7.14	12.7	41	
	12-May-14	32.45	202.95	Pumped Dry						
	20-Oct-14	35.85	199.55	6.18	0.115	169	12.06	12.84	300	
13-Apr-15	33.48	201.92	6.51	0.122	19	7.94	10.57	142		
98-IA-MW03 244.2	1-Jun-99	67	177.2	6.75	0.071	-	9.64	17.67	-	
	1-Nov-99	69	175.2	6.7	0.054	-	11.84	13.47	-	
	1-Apr-00	67.47	176.73	6.51	0.086	-	9.76	14.88	-	
	1-Feb-01	72.61	171.59	6.61	0.08	-	7.2	12.6	-	
	1-May-01	Dry	-	-	-	-	-	-	-	
	1-Aug-01	Dry	-	-	-	-	-	-	-	
	27-Feb-02	-	-	6.44	0.074	-	9.66	12.4	-	
	3-Jun-02	52.25	191.95	6.16	0.062	-	9.07	12	-	
	26-Aug-02	69.2	175	6.19	0.066	-	11.93	12.6	-	
	18-Nov-02	-	-	7.49	0.066	-	10.52	12	-	
	2-Jun-03	70.14	174.06	6.8	0.07	-	9.4	13	-	
	18-Sep-03	70.55	173.65	4.19	0.064	-	-	12.4	-	
	8-Dec-03	72.45	171.75	7.6	0.071	-	10.37	12.6	-	
	4-Mar-04	70.24	173.96	6.39	0.07	-	9.22	12.1	-	
	7-Jun-04	69.54	174.66	6.95	0.072	-	-	12.4	-	
	14-Sep-04	70.96	173.24	6.32	0.074	-	-	13.4	-	
	27-Sep-05	70.48	173.72	6.78	0.068	2	6.46	12.1	-	
	27-Mar-06	67.61	176.59	6.06	0.065	-	-	12.6	-	
	7-Aug-06	69.05	175.15	6.54	0.07	5	-	14.3	-	
	20-Oct-06	70.28	173.92	5.6	0.066	3	-	12	-	
	2-May-07	66.96	177.24	5.74	0.062	13	-	13.6	-	
	17-Sep-07	69.02	175.18	6.57	0.062	-	-	13.1	-	
	24-Mar-08	68.72	175.48	7.41	0.068	21	-	14	-	
	29-Sep-08	70.56	173.64	5.26	0.056	10	-0.56 *	13	-	
	9-Mar-09	71.2	173	5.21	0.071	10	9.45	12.4	114	
	28-Sep-09	70.05	174.15	6.68	0.073	2	9.94	12.4	129	
	26-Feb-10	70.1	174.1	6.52	0.074	6	10.25	12.9	268	
	13-Sep-10	-	-	5.82	0.073	56	8.72	12.7	197	
	4-Apr-11	67.22	176.98	4.51	0.074	1	9.33	12.3	107	
	1-Aug-11	67.7	176.5	4.6	0.073	1	0.92 *	12.8	195	
	27-Feb-12	69.65	174.55	7.06	-	-	-	10	11	
	6-Aug-12	68.3	175.9	8.03	-	-	3.64	12.4	-2	
20-Apr-13	68.36	175.84	8.01	0.067	-	2.59	12.2	0		
26-Aug-13	69.1	175.1	6.48	0.068	-	11.54	12	20		
12-May-14	66.78	177.42	6.57	0.099	-	11.01	11.8	20		
20-Oct-14	74.1	170.1	6.28	0.117	14.4	11.51	15.03	231		
13-Apr-15	67.7	176.5	6.52	0.104	22	8.81	14.28	121		

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
98-IA-MW04 246.9	1-Jun-99	50.58	196.32	6.59	0.061	-	9	16.77	-
	1-Nov-99	-	-	6.64	0.059	-	11.03	12.84	-
	1-Apr-00	51.29	195.61	6.25	0.87	-	9.87	14.68	-
	1-Nov-00	56.2	190.7	7.08	0.073	-	10.14	12.5	-
	1-Feb-01	58.15	188.75	6.45	0.078	-	7.81	12.2	-
	1-May-01	Dry	-	-	-	-	-	-	-
	1-Aug-01	Dry	-	-	-	-	-	-	-
	25-Feb-02	53	193.9	6.53	0.065	-	10.65	11.7	-
	29-May-02	68.25	178.65	6.17	0.072	-	8.5	13	-
	26-Aug-02	54.4	192.5	6.36	0.06	-	11.29	12	-
	12-Nov-02	-	-	7.02	0.063	-	10.43	11.6	-
	10-Mar-03	57.15	189.75	-	0.063	-	9.7	11.8	-
	2-Jun-03	55	191.9	6.7	0.07	-	9.8	13	-
	29-Sep-03	56.63	190.27	6.97	0.064	-	-	10.16	-
	5-Dec-03	57.3	189.6	6.14	0.65	-	10.93	11.8	-
	4-Mar-04	55.11	191.79	6.36	0.065	-	9.77	11.8	-
	7-Jun-04	54.65	192.25	7.02	0.063	-	9.96	12.6	-
	14-Sep-04	56.98	189.92	6.27	0.064	-	-	12.8	-
	20-Dec-04	59.12	187.78	6.67	0.065	-	-	11.6	-
	19-Mar-05	58.71	188.19	5.92	0.062	-	-	12.3	-
	27-Sep-05	56.05	190.85	6.79	0.059	7	7.52	13	-
	27-Mar-06	50.85	196.05	5.91	0.051	-	-	13.9	-
	7-Aug-06	54.33	192.57	6.59	0.061	22	-	14.3	-
	2-May-07	50.39	196.51	5.51	0.057	62	-	13.6	-
	17-Sep-07	54.55	192.35	6.23	0.064	-	-	13.1	-
	24-Mar-08	53.5	193.4	7.35	0.062	11	-	13.7	-
	29-Sep-08	56.55	190.35	5.95	0.054	10	1.06 *	13.9	-
	9-Mar-09	56.35	190.55	5.74	0.07	10	9.26	12.5	320
	28-Sep-09	55.85	191.05	5.57	0.066	-	9.62	12.4	129
	26-Feb-10	54.7	192.2	6.26	0.066	1	9.66	12.2	180
	13-Sep-10	54.17	192.73	5.43	0.065	27	8.31	12.3	233
	4-Apr-11	50.46	196.44	4.26	0.062	-	9.16	12.2	104
	1-Aug-11	51.87	195.03	4.75	0.066	-	1.09 *	12.1	129
27-Feb-12	54.6	192.3	7.05	-	-	-	12.6	18	
6-Aug-12	52.57	194.33	8.09	-	-	3.95	12.3	4	
20-Apr-13	52.2	194.7	8.2	0.06	-	2.8	12.3	-9	
26-Aug-13	54.55	192.35	6.29	0.063	-	11.75	12.2	19	
12-May-14	49.87	197.03	6.67	0.095	-	12.1	11.7	16	
20-Oct-14	54.65	192.25	4.17	0.001	136	11.27	14.68	256	
13-Apr-15	51.26	195.64	6.50	0.096	1.9	6.5	13.99	132	
98-IA-MW05 257.1	1-Jun-99	115.76	141.34	6.92	0.044	-	9.41	15.39	-
	1-Apr-00	114.47	142.63	6.32	0.7	-	10.28	15.62	-
	1-Feb-01	123.6	133.5	-	-	-	-	-	-
	1-May-01	Dry	-	-	-	-	-	-	-
	1-Aug-01	Dry	-	-	-	-	-	-	-
	12-Nov-02	123.65	133.45	-	-	-	-	-	-
	10-Mar-03	115.55	141.55	-	0.052	-	10.36	11.6	-
	2-Jun-03	120.16	136.94	6.9	0.06	-	10	13	-
	4-Mar-04	114.35	142.75	6.52	0.056	-	10.16	11.8	-
	7-Jun-04	123.69	133.41	-	-	-	-	-	-
14-Sep-04	123.67	133.43	-	-	-	-	-	-	

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
98-IA-MW05 cont.	20-Dec-04	123.71	133.39	-	-	-	-	-	-
	19-Mar-05	121.81	135.29	-	-	-	-	-	-
	27-Sep-05	Dry	-	-	-	-	-	-	-
	27-Mar-06	114.11	142.99	6.31	0.048	-	-	12.2	-
	7-Aug-06	Dry	-	-	-	-	-	-	-
	2-May-07	115.17	141.93	5.64	0.046	1	-	13.1	-
	17-Sep-07	Dry	-	-	-	-	-	-	-
	29-Sep-08	Dry	-	-	-	-	-	-	-
	9-Mar-09	115.36	141.74	7.06	0.057	10	9.74	12.8	299
	28-Sep-09	Dry	-	-	-	-	-	-	-
	26-Feb-10	113.5	143.6	6.02	0.058	4	9.02	13.1	159
	13-Sep-10	Dry	-	-	-	-	-	-	-
	4-Apr-11	112.36	144.74	3.96	0.061	-	-	12.3	108
	1-Aug-11	114.5	142.6	4.46	0.056	-	0.13 *	12.9	347
	27-Feb-12	113	144.1	7.06	-	-	-	10	11
	6-Aug-13	115.15	141.95	8.29	-	-	3.65	13.2	13
	20-Apr-13	112.73	144.37	8.7	0.054	-	1.82	13.6	-32
	26-Aug-13	123	134.1	-	-	-	-	-	-
12-May-14	112.6	144.5	6.75	0.084	-	11.23	13.5	11	
20-Oct-14	123.22	Well Dry							
13-Apr-15	112.63	144.47	6.56	0.087	5	9.83	14.91	98	
98-IA-MW06 321.9	1-Jun-99	35.32	286.58	6.4	0.076	-	5.37	16.08	-
	1-Nov-99	40.4	281.5	6.21	0.088	-	12.74	11.19	-
	1-Apr-00	31.66	290.24	5.88	0.115	-	18.76	16.14	-
	1-Nov-00	37.13	284.77	6.1	0.101	-	6.97	10.8	-
	1-Feb-01	39.59	282.31	6.43	0.093	-	5.03	11	-
	29-May-02	34.42	287.48	5.67	0.074	-	4.79	9.7	-
	26-Aug-02	38.25	283.65	5.42	0.072	-	5.6	9.7	-
	11-Mar-03	35.02	286.88	-	-	-	-	-	-
	3-Jun-03	33.87	288.03	6.4	0.08	-	5.6	11	-
	8-Dec-03	41.07	280.83	6.21	0.085	-	7.28	10.5	-
	5-Mar-04	32.02	289.88	5.9	0.08	-	7.07	10.4	-
	8-Jun-04	37.08	284.82	7.05	0.081	-	-	10.5	-
	21-Sep-04	41.41	280.49	-	-	-	-	-	-
	20-Dec-04	46.5	275.4	6.03	0.087	-	-	12.5	-
	21-Mar-05	35.37	286.53	5.4	0.079	-	-	10.7	-
	2-May-07	32.3	289.6	6.28	0.068	6	-	10.4	-
	10-Mar-09	34.3	287.6	5.81	0.078	10	6.97	9.9	354
	28-Sep-09	39.83	282.07	-	-	-	-	-	-
	13-Sep-10	37.1	284.8	-	-	-	-	-	-
	5-Apr-11	30.9	291	5.62	0.081	-	4.91	10.3	261
2-Aug-11	36.6	285.3	-	-	-	-	-	-	
27-Feb-12	32.08	289.82	-	-	-	-	-	-	
20-Apr-13	33.35	288.55	-	-	-	-	-	-	
26-Aug-13	38.7	283.2	-	-	-	-	-	-	
12-May-14	31.63	290.27	-	-	-	-	-	-	
13-Apr-15	32.03	289.87	-	-	-	-	-	-	
98-IA-MW07 291	1-Jun-99	52.05	238.95	6.58	0.094	-	9.38	17.46	-
	1-Nov-99	50.1	240.9	6.61	0.107	-	12.51	12.6	-
	1-Apr-00	48.9	242.1	6.12	0.129	-	17.92	13.69	-
	1-Nov-00	54.89	236.11	6.73	0.109	-	9.57	11.7	-

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
98-IA-MW07 cont.	1-May-01	Dry	-	-	-	-	-	-	-
	1-Aug-01	Dry	-	-	-	-	-	-	-
	5-Jun-02	55	236	5.91	0.102	-	8.85	11.4	-
	27-Aug-02	53.3	237.7	5.85	0.099	-	9.95	11.6	-
	11-Mar-03	Dry	-	-	-	-	-	-	-
	3-Jun-03	52.12	238.88	6.8	0.1	-	9.7	12	-
	5-Mar-04	51.53	239.47	6.26	0.098	-	8.01	10	-
	8-Jun-04	52.81	238.19	7.1	0.101	-	-	12.8	-
	27-Mar-06	49.32	241.68	6.1	0.094	-	-	11.8	-
	2-May-07	49.18	241.82	6.45	0.093	10	-	12.2	-
	24-Mar-08	50.67	240.33	7.11	0.096	117	-	12.1	-
	10-Mar-09	52.08	238.92	6.5	0.091	10	9.89	11.3	223
	26-Feb-10	50.55	240.45	6.6	0.093	1	9.7	11.5	182
	13-Sep-10	53	238	-	-	-	-	-	-
	5-Apr-11	48.37	242.63	5.68	0.097	-	9.48	11.2	268
2-Aug-11	52.15	238.85	-	-	-	-	-	-	
27-Feb-12	51.59	239.41	7.05	-	-	-	11.5	13	
12-May-14	49.48	241.52	-	-	-	-	-	-	
13-Apr-15	49.99	241.01	-	-	-	-	-	-	
98-IA-MW08 322.8	1-Jun-99	32.18	290.62	6.93	0.081	-	10.33	14.44	-
	1-Nov-99	37.4	285.4	6.88	0.104	-	12.52	12.44	-
	1-Apr-00	32.12	290.68	6.31	0.123	-	18.13	13.59	-
	1-Nov-00	36.69	286.11	6.3	0.097	-	8.98	11.4	-
	1-Feb-01	44.4	278.4	-	-	-	-	-	-
	1-May-01	45.6	277.2	-	-	-	-	-	-
	1-Aug-01	Dry	-	-	-	-	-	-	-
	28-Aug-02	36.7	286.1	6.11	0.082	-	10.7	11.4	-
	19-Nov-02	-	-	7.8	0.095	-	9.56	11.2	-
	12-Mar-03	40.85	281.95	-	-	-	-	-	-
	3-Jun-03	38.2	284.6	6.6	0.07	-	9.6	13	-
	18-Sep-03	42.76	280.04	6.88	0.092	-	-	12.2	-
	9-Dec-03	43.1	279.7	6.85	0.065	-	9.53	12.1	-
	8-Mar-04	36.72	286.08	6.32	0.084	-	9.62	11.8	-
	8-Jun-04	38.19	284.61	7.03	0.071	-	-	12.1	-
	21-Sep-04	44.32	278.48	-	-	-	-	-	-
	21-Dec-04	44.89	277.91	-	-	-	-	-	-
21-Mar-05	44.92	277.88	-	-	-	-	-	-	
2-May-07	31.27	291.53	6.48	0.081	21	-	13.3	-	
10-Mar-09	39.38	283.42	6.22	0.084	10	8.41	12.4	214	
7-Apr-11	30.91	291.89	5.89	0.102	3	9.03	11.7	357	
2-Aug-11	33.38	289.42	-	-	-	-	-	-	
13-Apr-15	32.16	290.64	-	-	-	-	-	-	
98-IA-MW09 333	1-Jun-99	32.38	300.62	6.8	0.119	-	7.34	19.09	-
	1-Nov-99	41	292	6.75	0.147	-	12.35	12.79	-
	1-Apr-00	31.48	301.52	6.23	0.162	-	19.17	14.97	-
	1-Nov-00	39.21	293.79	6.67	0.152	-	8.52	11.9	-
	1-Feb-01	45.15	287.85	6.59	0.142	-	6.13	12.4	-
	1-May-01	45.2	287.8	-	-	-	-	-	-
	1-Aug-01	45.59	287.41	7.03	0.142	-	8.15	12.5	-
	27-Aug-02	38.95	294.05	6.64	0.118	-	9.49	11.9	-
19-Nov-02	-	-	7.8	0.122	-	9.49	11.8	-	

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
98-IA-MW09 cont.	12-Mar-03	41.1	291.9	-	-	-	-	-	-
	4-Jun-03	38.75	294.25	7.1	0.12	-	8.4	12	-
	18-Sep-03	43.95	289.05	7.06	0.122	-	-	12.5	-
	8-Dec-03	40.58	292.42	7.03	0.121	-	8.99	12.2	-
	8-Mar-04	36.42	296.58	6.5	0.114	-	9.51	11.8	-
	8-Jun-04	39.7	293.3	7.07	0.123	-	-	12.1	-
	21-Sep-04	44.83	288.17	6.65	0.123	-	-	12.4	-
	21-Dec-04	45.6	287.4	6.71	0.124	-	-	12.7	-
	21-Mar-05	44.31	288.69	5.96	0.12	-	-	12.2	-
	2-May-07	29.79	303.21	6.51	0.115	55	-	13.8	-
	11-Mar-09	39.6	293.4	6.77	0.115	10	8.79	11.9	285
5-Apr-11	29.86	303.14	6.4	0.134	5	7.59	11.9	305	
1-Aug-11	34.25	298.75	-	-	-	-	-	-	
98-IA-MW10 355	1-Jun-99	27.07	327.93	6.49	0.087	-	7.34	15.46	-
	1-Nov-99	32.7	322.3	6.35	0.067	-	12.35	11.62	-
	1-Apr-00	34.75	320.25	5.71	0.107	-	19.17	12.19	-
	1-Nov-00	30.37	324.63	6.2	0.087	-	9.3	11.2	-
	1-Feb-01	35.18	319.82	6.28	0.079	-	6.81	10.9	-
	1-May-01	35.2	319.8	-	-	-	-	-	-
	21-Aug-01	33.78	321.22	6.47	0.079	-	8.5	10.9	-
	27-Aug-02	30.25	324.75	6.03	0.067	-	9.96	10	-
	19-Nov-02	-	-	6.74	0.067	-	10.55	9.7	-
	11-Mar-03	32.4	322.6	-	-	-	-	-	-
	3-Jun-03	28.65	326.35	6.6	0.07	-	9.8	11	-
	18-Sep-03	32.4	322.6	6.55	0.066	-	-	10.3	-
	8-Dec-03	33.82	321.18	6.66	0.064	-	9.97	10.3	-
	8-Mar-04	27.84	327.16	6.1	0.069	-	9.72	10.2	-
	8-Jun-04	29.43	325.57	7.04	0.07	-	-	10.2	-
	21-Sep-04	33.73	321.27	6.26	0.069	-	-	11	-
	21-Dec-04	35.4	319.6	6.38	0.068	-	-	10.8	-
21-Mar-05	33.95	321.05	5.48	0.068	-	-	10.3	-	
2-May-07	24.88	330.12	6.26	0.065	-	-	10.5	-	
11-Mar-09	30.5	324.5	5.32	0.064	10	9.65	10.1	196	
5-Apr-11	24.41	330.59	6.1	0.077	-	8.28	10	353	
1-Aug-11	27.86	327.14	-	-	-	-	-	-	
01-IA-MW11 266.78	12-Dec-01	-	-	6.71	0.108	-	9.92	11	-
	28-Mar-02	44.1	222.68	6.6	0.104	-	11.11	11	-
	26-Aug-02	46.5	220.28	5.95	0.013	-	10.95	10.7	-
	18-Nov-02	-	-	7.55	0.104	-	10.79	-	-
	10-Mar-03	49.9	216.88	-	0.092	-	10.44	10.5	-
	3-Jun-03	47.43	219.35	6.8	0.1	-	9.1	12	-
	18-Sep-03	48.57	218.21	6.7	0.1	-	-	11	-
	8-Dec-03	49.41	217.37	6.73	0.096	-	10.43	11	-
	5-Mar-04	47.64	219.14	6.3	0.104	-	10.13	10.8	-
	7-Jun-04	47.13	219.65	7.15	0.107	-	-	11.4	-
	21-Sep-04	49.24	217.54	6.27	0.096	-	-	11.8	-
	20-Dec-04	51.08	215.7	6.58	0.083	-	-	11.9	-
	21-Mar-05	50.9	215.88	5.8	0.081	-	-	10.7	-
	27-Mar-06	42.69	224.09	6.11	0.082	-	-	11.7	-
2-May-07	41.32	225.46	6.59	0.09	3	-	12.1	-	
24-Mar-08	45.37	221.41	7.21	0.1	4	-	11.8	-	



**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
01-IA-MW11 cont.	9-Mar-09	47.92	218.86	6.7	0.1	10	9.87	11	304
	26-Feb-10	46.2	220.58	6.67	0.097	14	10.03	11	153
	13-Sep-10	46.49	220.29	-	-	-	-	-	-
	4-Apr-11	42.35	224.43	4.85	0.101	19	9.36	11	84
	1-Aug-11	43.2	223.58	-	-	-	-	-	-
	27-Feb-12	46.54	220.24	-	-	-	-	-	-
	20-Apr-13	44.23	222.55	-	-	-	-	-	-
	26-Aug-13	46.2	220.58	-	-	-	-	-	-
	12-May-14	40.72	226.06	-	-	-	-	-	-
13-Apr-15	42.65	224.13	-	-	-	-	-	-	
01-IA-MW12 289.43	28-Mar-02	23.35	266.08	6.56	0.077	-	10.91	11.4	-
	26-Aug-02	32.41	257.02	6.08	0.071	-	13.36	11.1	-
	18-Nov-02	-	-	7.59	0.075	-	10.71	-	-
	11-Mar-03	36.2	253.23	-	0.075	-	10.22	11.3	-
	3-Jun-03	29.1	260.33	6.9	0.08	-	10.5	12	-
	18-Sep-03	35.26	254.17	6.83	0.079	-	-	11.6	-
	8-Dec-03	38	251.43	6.8	0.079	-	11.04	11.5	-
	5-Mar-04	28.32	261.11	6.34	0.079	-	9.99	11.3	-
	7-Jun-04	31.79	257.64	7.09	0.078	-	-	11.5	-
	21-Sep-04	37.78	251.65	6.47	0.076	-	-	12	-
	20-Dec-04	41.48	247.95	6.63	0.077	-	-	11.8	-
	21-Mar-05	34.21	255.22	5.85	0.074	-	-	11.5	-
	2-May-07	22.79	266.64	6.54	0.073	-	-	12.2	-
	10-Mar-09	30.94	258.49	6.39	0.082	10	9.95	11.2	371
	13-Sep-10	31.72	257.71	-	-	-	-	-	-
	4-Apr-11	22.45	266.98	5.13	0.084	21	10.6	11.5	243
	1-Aug-11	28.77	260.66	-	-	-	-	-	-
	27-Feb-12	30.45	258.98	-	-	-	-	-	-
	20-Apr-13	27.34	262.09	-	-	-	-	-	-
26-Aug-13	33.25	256.18	-	-	-	-	-	-	
12-May-14	21.77	267.66	-	-	-	-	-	-	
13-Apr-15	23.61	265.82	-	-	-	-	-	-	
01-IA-MW13 315.43	28-Mar-02	29	286.43	7.66	0.115	-	9.55	11.7	-
	26-Aug-02	36.2	279.23	-	-	-	-	-	-
	9-Sep-02	37.1	278.33	7.45	0.104	-	9.86	11.4	-
	18-Nov-02	-	-	8.24	0.105	-	9.99	11.2	-
	11-Mar-03	38.35	277.08	-	-	-	-	-	-
	3-Jun-03	34.51	280.92	7.6	0.12	-	8.6	12	-
	18-Sep-03	40.29	275.14	7.56	0.111	-	-	11.9	-
	8-Dec-03	41.1	274.33	7.5	0.112	-	9.27	11.6	-
	5-Mar-04	32.59	282.84	6.99	0.112	-	8.59	11	-
	7-Jun-04	36.04	279.39	6.77	0.113	-	-	11.6	-
	21-Sep-04	42.11	273.32	7.2	0.11	-	-	11.9	-
	20-Dec-04	44.85	270.58	7.3	0.109	-	-	11.7	-
	21-Mar-05	41.24	274.19	6.56	0.104	-	-	11.4	-
	2-May-07	26.42	289.01	7.21	0.115	4	-	12.1	-
	11-Mar-09	35.8	279.63	7.33	0.103	10	8.93	11.5	285
13-Sep-10	36	279.43	-	-	-	-	-	-	
5-Apr-11	26.51	288.92	6.59	0.119	2	7.98	11.3	225	
1-Aug-11	31.27	284.16	-	-	-	-	-	-	
27-Feb-12	33.38	282.05	-	-	-	-	-	-	

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
01-IA-MW13 cont.	20-Apr-13	30.49	284.94	-	-	-	-	-	-
	26-Aug-13	35.92	279.51	-	-	-	-	-	-
	12-May-14	25.3	290.13	-	-	-	-	-	-
	13-Apr-15	27.31	288.12	-	-	-	-	-	-
01-IA-MW14 394.39	28-Mar-02	29.5	364.89	7.39	0.163	-	-	11.7	-
	27-Aug-02	33.1	361.29	6.46	0.115	-	1.64	10.6	-
	11-Mar-03	30.66	363.73	-	-	-	-	-	-
	19-Sep-03	35.26	359.13	-	-	-	-	-	-
	9-Dec-03	35.28	359.11	-	-	-	-	9.1	-
	5-Mar-04	29.29	365.1	6.56	0.177	-	2.54	9.6	-
	8-Jun-04	32.18	362.21	-	-	-	-	-	-
	21-Sep-04	36.37	358.02	-	-	-	-	-	-
	21-Dec-04	35.86	358.53	-	-	-	-	-	-
	21-Mar-05	33.05	361.34	-	-	-	-	-	-
	2-May-07	28	366.39	6.83	0.098	27	-	11.9	-
	11-Mar-09	30.64	363.75	7.14	0.094	10	7.9	10.6	-
	5-Apr-11	26.24	368.15	6.8	0.108	3	6.96	10.8	209
1-Aug-11	30	364.39	-	-	-	-	-	-	
01-IA-MW15 363.61	5-Jun-02	169.1	194.51	-	-	-	-	-	-
	9-Sep-02	173.86	189.75	7.22	0.129	-	2.04	11.7	-
	18-Nov-02	-	-	8.27	0.152	-	1.93	11.4	-
	11-Mar-03	172.2	191.41	-	-	-	-	-	-
	3-Jun-03	171.26	192.35	7.4	0.13	-	1.9	12	-
	18-Sep-03	172.56	191.05	7.4	0.16	-	-	12.5	-
	8-Dec-03	173.26	190.35	7.36	0.178	-	1.67	12.1	-
	5-Mar-04	171.39	192.22	6.79	0.12	-	2.14	11.4	-
	8-Jun-04	171.44	192.17	7.11	0.133	-	-	11.7	-
	21-Dec-04	173.56	190.05	7.16	0.164	-	-	11.7	-
	21-Mar-05	173.21	190.4	6.31	0.169	-	-	12.3	-
	2-May-07	167.9	195.71	6.9	0.109	1	-	12.9	-
	10-Mar-09	172.18	191.43	6.54	0.153	10	2.66	12.8	183
	28-Sep-09	172.15	191.46	-	-	-	-	-	-
5-Apr-11	168.59	195.02	6.45	0.12	3	2.25	12.1	221	
2-Aug-11	168.84	194.77	-	-	-	-	-	-	
85-PA-384 279.15	1-Jun-99	-	-	6.09	0.062	-	3.04	14.47	-
	1-Nov-99	-	-	6.12	0.088	-	7.71	12.14	-
	1-Apr-00	-	-	5.71	0.894	-	11.81	15.24	-
	1-Nov-00	37.95	241.2	5.89	3.98	-	0.096	11	-
	1-Feb-01	38.26	240.89	6.14	0.083	-	3.6	11.2	-
	1-Aug-01	37.55	241.6	6.37	0.098	-	-	11.1	-
	27-Aug-02	34	245.15	5.45	0.066	-	3.28	9.2	-
	19-Nov-02	-	-	7.1	0.074	-	3.05	-	-
	12-Mar-03	28.3	250.85	-	-	-	-	-	-
	3-Jun-03	35.3	243.85	6.3	0.07	-	3.7	11	-
	18-Sep-03	37.88	241.27	6.3	0.073	-	-	11.7	-
	10-Dec-03	27.67	251.48	6.3	0.063	-	9.62	10.8	-
	8-Mar-04	29.85	249.3	5.97	0.061	-	5.85	10.5	-
	8-Jun-04	36.22	242.93	7.01	0.07	-	-	10.64	-
	21-Sep-04	33.91	245.24	5.93	0.074	-	-	10.9	-
21-Dec-04	31.89	247.26	6.05	0.074	-	-	11.1	-	
22-Sep-05	31.32	247.83	5.57	0.071	-	-	10.3	-	

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 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
85-PA-384 cont.	2-May-07	25.73	253.42	6	0.058	3	-	9.6	-
	10-Mar-09	30.57	248.58	5.64	0.074	10	6.86	10.6	352
	7-Apr-11	19.36	259.79	5.86	0.063	23	3.61	10.7	166
	8-Aug-11	24.85	254.3	-	-	-	-	-	-
9700-MW1 277.68	1-Jun-99	-	-	6.34	0.088	-	5.64	16.13	-
	1-Nov-99	-	-	6.37	0.105	-	8.57	10.98	-
	1-Apr-00	-	-	5.95	1.259	-	16.75	10.69	-
	1-Nov-00	11.1	266.58	6.24	0.11	-	6.57	10.4	-
	1-Feb-01	11.49	266.19	6.12	0.1	-	5.03	9.5	-
	1-Aug-01	11.99	265.69	-	-	-	-	-	-
	28-Aug-02	11	266.68	5.9	0.1	-	6.27	10.6	-
	19-Nov-02	-	-	7.51	0.099	-	7.4	10.2	-
	12-Mar-03	10.12	267.56	-	-	-	-	-	-
	3-Jun-03	10.47	267.21	6.7	0.1	-	6.4	11	-
	18-Sep-03	11.18	266.5	6.63	0.098	-	-	11.5	-
	10-Dec-03	9.98	267.7	6.57	0.097	-	7.16	10.6	-
	8-Mar-04	9.92	267.76	6.2	0.097	-	7.24	9.4	-
	8-Jun-04	10.61	267.07	7.01	0.096	-	-	10.4	-
	21-Sep-04	11.29	266.39	6.4	0.094	-	-	12	-
	21-Dec-04	11.11	266.57	6.23	0.094	-	-	10.5	-
	22-Sep-05	11.19	266.49	-	-	-	-	-	-
	10-Mar-09	10.39	267.29	6.38	0.087	10	8.54	9.8	328
7-Apr-11	8.57	269.11	5.71	0.097	55	7.18	9.7	136	
10-Aug-11	10.05	267.63	-	-	-	-	-	-	
MW-3(3138) 288.29	1-Jun-99	-	-	6.05	0.501	-	0.77	18.16	-
	1-Nov-99	-	-	6.08	0.61	-	2.84	15.94	-
	1-Apr-00	-	-	5.56	0.465	-	0.28	14.7	-
	1-Nov-00	21.38	266.91	5.74	0.536	-	0.14	15.8	-
	28-Aug-02	21.1	267.19	5.43	0.475	-	-	14.1	-
	19-Nov-02	-	-	7	0.455	-	0.04	14.9	-
	12-Mar-03	21.6	266.69	-	-	-	-	-	-
	19-Sep-03	23.92	264.37	6.07	0.505	-	-	15.2	-
	10-Dec-03	21.83	266.46	5.97	0.921	-	0.07	16.6	-
	8-Mar-04	19.71	268.58	5.7	0.463	-	0.07	14.8	-
	8-Jun-04	21.59	266.7	6.04	0.517	-	-	14.7	-
	21-Sep-04	23.07	265.22	5.7	0.0472	-	-	15.7	-
	21-Dec-04	22.67	265.62	5.74	0.468	-	-	15.4	-
	22-Sep-05	23.12	265.17	-	-	-	-	-	-
	2-May-07	14.33	273.96	5.79	0.365	3	-	14.5	-
11-Mar-09	21.5	266.79	5.83	0.408	10	0.55	15	-94	
7-Apr-11	15.22	273.07	5.62	0.366	-	0.61	13.9	-136	
2-Aug-11	17.56	270.73	-	-	-	-	-	-	
AIA-SP-01 220	1-Jun-99	-	-	6.62	0.06	-	10.05	11.63	-
	1-Nov-99	-	-	6.74	0.088	-	11.52	11.46	-
	1-Nov-00	-	-	7.36	0.086	-	9.35	11.8	-
	15-Feb-01	-	-	5.95	0.096	-	7.1	11.6	-
	27-Aug-01	-	-	6.38	0.094	-	9.22	12.2	-
	12-Dec-01	-	-	6.71	0.098	-	9.46	11.6	-
	27-Feb-02	-	-	6.4	0.037	-	9.57	12	-
	20-May-02	-	-	6.8	0.075	-	9.04	11.6	-
19-Aug-02	-	-	6.65	0.073	-	9.89	11.5	-	

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
AIA-SP-01 cont.	12-Nov-02	-	-	6.95	0.08	-	9.12	11.2	-
	10-Mar-03	-	-	-	0.078	-	9.45	11.3	-
	3-Jun-03	-	-	6.7	0.09	-	9.3	12	-
	29-Sep-03	-	-	-	-	-	-	-	-
	8-Dec-03	-	-	7.18	0.086	-	9.42	11.5	-
	4-Mar-04	-	-	6.32	0.088	-	8.03	11.2	-
	7-Jun-04	-	-	-	-	-	-	-	-
	14-Sep-04	-	-	6.18	0.085	-	-	12.1	-
	20-Dec-04	-	-	7.32	0.085	-	-	11.1	-
21-Mar-05	-	-	6.73	0.084	-	-	11.3	-	
AIA-SP-02 200	1-Jun-99	-	-	7.44	0.055	-	10.49	11.42	-
	1-Nov-99	-	-	7.27	0.085	-	12.34	11.26	-
	28-Aug-01	-	-	6.49	0.09	-	9.93	12.7	-
	27-Feb-02	-	-	6.86	0.08	-	7.13	11.7	-
	20-May-02	-	-	6.5	0.069	-	8.78	11.3	-
	11-Nov-02	-	-	6.3	0.09	-	-	11.1	-
	19-Aug-02	-	-	7.03	0.07	-	9.87	11.2	-
	10-Mar-03	-	-	-	0.077	-	7.05	11.2	-
	2-Jun-03	-	-	6.8	0.09	-	8	12	-
	29-Sep-03	-	-	-	-	-	-	-	-
	8-Dec-03	-	-	7.46	0.086	-	7.99	11.3	-
	4-Mar-04	-	-	6.65	0.087	-	7.94	10.8	-
	7-Jun-04	-	-	6.45	0.094	-	-	11.8	-
	14-Sep-04	-	-	6.45	0.085	-	-	12.3	-
	20-Dec-04	-	-	7.31	0.082	-	-	11.1	-
19-Mar-05	-	-	6.68	0.083	-	-	10.7	-	
AIA-SP-03 148.3	1-Jun-99	-	-	7.78	0.051	-	10.43	13.09	-
	1-Nov-99	-	-	6.9	0.053	-	10.81	11.54	-
	27-Aug-01	-	-	7.04	0.071	-	10.33	12.3	-
	26-Nov-01	-	-	6.9	0.077	-	10.5	10.9	-
	27-Feb-02	-	-	6.87	0.074	-	7.77	10.5	-
	20-May-02	-	-	6.7	0.065	-	8.19	10.9	-
	19-Aug-02	-	-	6.87	0.064	-	9.43	11.4	-
	11-Nov-02	-	-	6.09	0.078	-	-	11	-
	10-Mar-03	-	-	-	0.065	-	9.34	10.7	-
	2-Jun-03	-	-	6.8	0.07	-	7.4	12	-
	29-Sep-03	-	-	-	-	-	-	-	-
	5-Dec-03	-	-	6.22	0.077	-	7.92	10.8	-
	4-Mar-04	-	-	6.57	0.08	-	8.25	10.4	-
	7-Jun-04	-	-	7.06	0.094	-	7.63	11.4	-
	14-Sep-04	-	-	6.39	0.076	-	-	11.8	-
20-Dec-04	-	-	7.3	0.067	-	-	10.4	-	
19-Mar-05	-	-	6.34	0.07	-	-	10.6	-	

**Table 2-1 - Depth to Water and Field Parameter Measurements**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID TOC	Date	DTW (ft bgs)	GWELEV (ft AMSL)	pH	Cond. (ms/cm)	Turbidity	DO (ppm)	Temp (°C)	ORP (mv)
AIA-SP-04 163.4	1-Jun-99	-	-	7.46	0.055	-	10.78	11.52	-
	1-Nov-99	-	-	7.15	0.059	-	10.8	11.03	-
	27-Aug-01	-	-	7.44	0.077	-	7.5	12.2	-
	26-Nov-01	-	-	7.72	0.077	-	11.4	10.6	-
	27-Feb-02	-	-	6.87	0.074	-	9.77	10.5	-
	20-May-02	-	-	7.23	0.068	-	9.02	10.7	-
	19-Aug-02	-	-	7.18	0.065	-	10.48	11.3	-
	11-Nov-02	-	-	6.45	0.081	-	-	10.7	-
	10-Mar-03	-	-	-	0.067	-	9.46	10.5	-
	2-Jun-03	-	-	7.6	0.07	-	9.1	12	-
	29-Sep-03	-	-	-	-	-	-	-	-
	5-Dec-03	-	-	6.65	0.72	-	8.4	10.5	-
	4-Mar-04	-	-	7.07	0.074	-	7.96	10.2	-
	7-Jun-04	-	-	7.36	0.077	-	7.32	10.9	-
	14-Sep-04	-	-	6.4	0.08	-	-	11.7	-
20-Dec-04	-	-	7.22	0.125	-	-	10.1	-	
19-Mar-05	-	-	6.87	0.08	-	-	10.2	-	
AIA-SP-05 240	1-Jun-99	-	-	7.52	0.051	-	10.76	11.02	-
	1-Nov-99	-	-	7.4	0.056	-	10.41	11.01	-
	27-Aug-01	-	-	6.95	0.081	-	10.58	11.6	-
	25-Feb-02	-	-	6.86	0.045	-	10.45	10.8	-
	20-May-02	-	-	6.52	0.044	-	9.05	10.5	-
	19-Aug-02	-	-	6.48	0.06	-	10.29	10.9	-
	11-Nov-02	-	-	6.17	0.08	-	-	11	-
	10-Mar-03	-	-	-	0.053	-	8.13	10.4	-
	2-Jun-03	-	-	6.6	0.05	-	8.2	11	-
	29-Sep-03	-	-	-	-	-	-	-	-
	5-Dec-03	-	-	6.7	0.7	-	8.17	10.3	-
	4-Mar-04	-	-	6.47	0.048	-	8.62	11	-
	7-Jun-04	-	-	7.58	0.075	-	6.94	10.5	-
	14-Sep-04	-	-	-	-	-	-	-	-
	20-Dec-04	-	-	5.21	0.032	-	-	10.6	-
19-Mar-05	-	-	6.36	0.064	-	-	10.9	-	

Notes

- TOC = Top of casing elevation in feet
- DTW ft bgs = Depth to water in feet below ground surface
- GWELEV (ft AMSL) = Groundwater elevation in feet above mean sea level
- Cond. (ms/cm) = Conductivity microsiemens per centimeter
- DO (ppm) = Dissolved oxygen parts per million
- Temp. (°C) = Temperature degrees celsius
- ORP (mv) = Oxygen / reduction potential millivolts
- = No data, not applicable
- \* = It is suspected that the dissolved oxygen probe did not calibrate properly.

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)							
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>							
98-IA-MW01	23-Jun-99	1.4	R	-	-	-	-	-	-	-							
	9-Nov-99	1.0	U	-	-	-	-	-	-	-							
	10-Apr-00	0.4	J	-	0.07	J	0.1	U	0.1	U	0.01	U	-	-			
	29-Aug-00	0.4	-	-	0.3	-	0.1	U	0.1	U	0.01	U	-	-			
	13-Nov-00	0.5	-	-	0.3	-	0.1	U	0.2	-	0.1	U	0.01	U	-	-	
	21-May-01	0.4	-	-	0.2	-	0.1	U	0.2	-	0.1	U	0.01	U	-	-	
	28-Aug-01	0.2	U	-	0.4	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	27-Feb-02	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	29-May-02	0.4	-	-	0.2	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	26-Aug-02	0.4	-	-	0.2	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	10-Mar-03	0.3	-	-	0.2	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	2-Jun-03	0.4	-	-	0.2	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	18-Sep-03	0.4	-	-	0.2	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	5-Mar-04	0.3	-	-	0.2	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	7-Jun-04	0.4	-	-	0.3	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	19-Mar-05	0.3	-	-	0.2	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	27-Sep-05	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	27-Mar-06	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7-Aug-06	0.2	J	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2-May-07	0.2	U	0.1	U	0.202	-	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	11-Sep-07	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24-Mar-08	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16-Sep-08	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Duplicate	16-Sep-08	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-		
	9-Mar-09	0.24	0.1	U	0.27	-	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
Duplicate	28-Sep-09	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-		
	28-Sep-09	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-		
	26-Feb-10	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-		
	13-Sep-10	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
	4-Apr-11	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
	2-Aug-11	0.20	-	-	-	-	-	-	-	-	-	-	-	-	-		
	27-Feb-12	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-		
	6-Aug-12	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-		
	20-Apr-13	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-		
	26-Aug-13	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-		
	12-May-14	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-		
	20-Oct-14	0.14	C	-	-	-	-	-	-	-	-	-	-	-	-		
	13-Apr-15	0.16	C	-	-	-	-	-	-	-	-	-	-	-	-		
98-IA-MW02	23-Jun-99	3.2	R	-	-	-	-	-	-	-	-	-	-	-	-		
	9-Nov-99	1.0	U	-	-	-	-	-	-	-	-	-	-	-	-		
	10-Apr-00	0.6	-	-	0.07	J	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	29-Aug-00	0.2	-	-	0.3	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	13-Nov-00	0.2	U	-	0.2	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	27-Feb-02	0.7	-	-	0.1	U	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	29-May-02	0.7	-	-	0.1	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	27-Mar-06	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2-May-07	0.3	0.1	U	0.165	-	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
	11-Sep-07	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24-Mar-08	1.3 *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16-Sep-08	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9-Mar-09	0.24	0.1	U	0.223	-	0.1	U	0.1	U	0.1	U	0.01	U	0.1	U	
	26-Feb-10	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Sep-10	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-Apr-11	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)							
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>							
98-IA-MW02 Cont.	2-Aug-11	<b>0.26</b>	-	-	-	-	-	-	-	-							
	27-Feb-12	0.1	U	-	-	-	-	-	-	-							
	6-Aug-12	<b>0.24</b>	-	-	-	-	-	-	-	-							
	20-Apr-13	<b>0.25</b>	-	-	-	-	-	-	-	-							
	26-Aug-13	<b>0.13</b>	-	-	-	-	-	-	-	-							
	12-May-14	<b>0.51</b>	-	-	-	-	-	-	-	-							
	20-Oct-14	0.09	C	-	-	-	-	-	-	-							
	20-Oct-14	<b>0.11</b>	<b>C</b>	-	-	-	-	-	-	-							
Duplicate	13-Apr-15	<b>0.38</b>	<b>C</b>	-	-	-	-	-	-	-							
98-IA-MW03	23-Jun-99	1.0	U	-	-	-	0.1	U	-	-	-	-					
	9-Nov-99	1.0	U	-	-	-	-	-	-	-	-	-					
	10-Apr-00	0.5	U	-	<b>0.2</b>	J	0.1	U	<b>0.3</b>	J	0.1	U	0.01	U	-	-	
	29-Aug-00	<b>0.2</b>	-	-	<b>0.4</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-			
	13-Nov-00	0.2	U	-	<b>0.4</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-			
	14-Feb-01	<b>0.2</b>	-	-	<b>0.3</b>	0.1	U	<b>0.2</b>	0.1	U	0.01	U	-	-			
	27-Feb-02	<b>0.3</b>	-	-	-	-	-	-	-	-	-	-	-				
	29-May-02	0.2	U	-	<b>0.3</b>	0.1	U	<b>0.2</b>	0.1	U	0.01	U	-	-			
	26-Aug-02	<b>0.5</b>	-	-	<b>0.4</b>	0.1	U	<b>0.2</b>	0.1	U	0.01	U	-	-			
	18-Nov-02	0.2	U	-	<b>0.3</b>	0.1	U	<b>0.2</b>	0.1	U	0.01	U	-	-			
	10-Mar-03	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	2-Jun-03	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	18-Sep-03	<b>0.5</b>	-	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	8-Dec-03	<b>0.6</b>	-	-	<b>0.3</b>	0.1	U	<b>0.2</b>	0.1	U	0.01	U	-	-			
	5-Mar-04	<b>0.3</b>	-	-	<b>0.3</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-			
	7-Jun-04	<b>0.5</b>	-	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	14-Sep-04	<b>0.4</b>	-	-	<b>0.3</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-			
	27-Sep-05	<b>0.4</b>	-	-	-	-	-	-	-	-	-	-	-				
	27-Mar-06	<b>0.4</b>	-	-	-	-	-	-	-	-	-	-	-				
	7-Aug-06	<b>0.9</b>	-	-	-	-	-	-	-	-	-	-	-				
	2-May-07	<b>1.0</b>	0.1	U	<b>0.279</b>	0.1	U	<b>0.356</b>	0.1	U	0.1	U	0.1	U	0.1	U	
	11-Sep-07	<b>0.1</b>	-	-	-	-	-	-	-	-	-	-	-				
	24-Mar-08	<b>1.5</b>	-	-	-	-	-	-	-	-	-	-	-				
	29-Sep-08	<b>1.16</b>	-	-	-	-	-	-	-	-	-	-	-				
	9-Mar-09	<b>1.11</b>	0.1	U	<b>0.292</b>	0.1	U	0.1	U	0.1	U	0.01	U	0.1	U	0.1	U
	28-Sep-09	<b>1.08</b>	-	-	-	-	-	-	-	-	-	-	-				
	26-Feb-10	<b>1.2</b>	-	-	-	-	-	-	-	-	-	-	-				
	13-Sep-10	<b>1.2</b>	-	-	-	-	-	-	-	-	-	-	-				
	Duplicate	13-Sep-10	<b>1.1</b>	-	-	-	-	-	-	-	-	-	-				
	4-Apr-11	<b>1.2</b>	-	-	-	-	-	-	-	-	-	-	-				
	1-Aug-11	<b>1.3</b>	-	-	-	-	-	-	-	-	-	-	-				
	24-Mar-12	<b>1.2</b>	-	-	-	-	-	-	-	-	-	-	-				
	6-Aug-12	<b>1.1</b>	-	-	-	-	-	-	-	-	-	-	-				
20-Apr-13	<b>0.73</b>	-	-	-	-	-	-	-	-	-	-	-					
26-Aug-13	<b>0.75</b>	-	-	-	-	-	-	-	-	-	-	-					
Duplicate	26-Aug-13	<b>0.74</b>	-	-	-	-	-	-	-	-	-	-					
12-May-14	<b>0.71</b>	-	-	-	-	-	-	-	-	-	-	-					
20-Oct-14	<b>0.71</b>	<b>C</b>	-	-	-	-	-	-	-	-	-	-					
13-Apr-15	<b>0.68</b>	<b>C</b>	-	-	-	-	-	-	-	-	-	-					
Duplicate	13-Apr-15	<b>0.69</b>	<b>C</b>	-	-	-	-	-	-	-	-	-					
98-IA-MW04	23-Jun-99	<b>1.3</b>	<b>R</b>	-	-	-	0.1	U	-	-	-	-					
	9-Nov-99	1.0	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-			
	10-Apr-00	<b>0.5</b>	<b>J</b>	-	<b>0.12</b>	<b>J</b>	0.1	U	<b>0.07</b>	<b>J</b>	0.1	U	0.01	U	-	-	
	29-Aug-00	<b>0.5</b>	-	-	<b>0.3</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-			
	13-Nov-00	<b>0.6</b>	-	-	<b>0.3</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-			

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)	
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>	
98-IA-MW04 cont.	14-Feb-01	0.5	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	27-Feb-02	0.5	-	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	26-Aug-02	0.5	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	18-Nov-02	0.5	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	10-Mar-03	0.4	-	0.4	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	2-Jun-03	0.5	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	18-Sep-03	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	8-Dec-03	0.5	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	5-Mar-04	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	7-Jun-04	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	14-Sep-04	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	20-Dec-04	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	19-Mar-05	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	27-Sep-05	0.4	-	-	-	-	-	-	-	-	
	27-Mar-06	0.4	-	-	-	-	-	-	-	-	
	7-Aug-06	0.3 J	-	-	-	-	-	-	-	-	
	2-May-07	0.3	0.1 U	0.172	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	11-Sep-07	0.4	-	-	-	-	-	-	-	-	
	24-Mar-08	0.6	-	-	-	-	-	-	-	-	
	29-Sep-08	0.37	-	-	-	-	-	-	-	-	
	9-Mar-09	0.36	0.1 U	0.227	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U	0.1 U	
	28-Sep-09	0.46	-	-	-	-	-	-	-	-	
	26-Feb-10	0.43	-	-	-	-	-	-	-	-	
	13-Sep-10	0.45	-	-	-	-	-	-	-	-	
	4-Apr-11	0.43	-	-	-	-	-	-	-	-	
	1-Aug-11	0.46	-	-	-	-	-	-	-	-	
	Duplicate	27-Mar-12	0.40	-	-	-	-	-	-	-	-
27-Mar-12		0.39	-	-	-	-	-	-	-	-	
6-Aug-12		0.40	-	-	-	-	-	-	-	-	
20-Apr-13		0.37	-	-	-	-	-	-	-	-	
26-Aug-13		0.16	-	-	-	-	-	-	-	-	
Duplicate	12-May-14	0.31	-	-	-	-	-	-	-	-	
	12-May-14	0.34	-	-	-	-	-	-	-	-	
	20-Oct-14	0.37 C	-	-	-	-	-	-	-	-	
13-Apr-15	0.37 C	-	-	-	-	-	-	-	-		
98-IA-MW05	23-Jun-99	1.0 U	-	-	-	0.1 U	-	-	-	-	
	10-Apr-00	0.5 U	-	0.33 J	0.01 J	0.71 J	0.03 J	0.01 U	-	-	
	10-Mar-03	0.2 U	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	2-Jun-03	0.2 U	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-	
	8-Dec-03	0.2 U	-	0.3	0.1 U	0.3	0.1 U	0.01 U	-	-	
	7-Jun-04	0.2 U	-	-	-	-	-	-	-	-	
	20-Dec-04	0.2 U	-	-	-	-	-	-	-	-	
	19-Mar-05	0.2 U	-	-	-	-	-	-	-	-	
	27-Mar-06	0.2 U	-	-	-	-	-	-	-	-	
	2-May-07	0.2 U	0.1 U	0.019	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	9-Mar-09	0.1 U	0.1 U	0.11	0.1 U	0.11	0.1 U	0.01 U	0.1 U	0.1 U	
	Duplicate	9-Mar-09	0.1 U	0.1 U	0.12	0.1 U	0.10	0.1 U	0.01 U	0.1 U	0.1 U
		26-Feb-10	0.1 U	-	-	-	-	-	-	-	-
	Duplicate	26-Feb-10	0.1 U	-	-	-	-	-	-	-	-
		4-Apr-11	0.099 U	-	-	-	-	-	-	-	-
	Duplicate	4-Apr-11	0.099 U	-	-	-	-	-	-	-	-
1-Aug-11		0.099 U	-	-	-	-	-	-	-	-	
27-Feb-12		0.1 U	-	-	-	-	-	-	-	-	
6-Aug-12	0.1 U	-	-	-	-	-	-	-	-		



**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>
98-IA-MW05 cont.	20-Apr-13	0.1 U	-	-	-	-	-	-	-	-
	12-May-14	0.1 U	-	-	-	-	-	-	-	-
	13-Apr-15	0.04 U	-	-	-	-	-	-	-	-
98-IA-MW06	23-Jun-99	1.0 U	-	-	-	-	-	-	-	-
	9-Nov-99	1.0 U	-	-	-	-	-	-	-	-
	10-Apr-00	0.5 U	-	<b>0.09</b> J	0.1 U	<b>0.27</b> J	0.1 U	0.01 U	-	-
	29-Aug-00	0.2 U	-	<b>0.4</b>	0.1 U	<b>0.4</b>	0.1 U	0.01 U	-	-
	13-Nov-00	<b>0.2</b>	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	14-Feb-01	0.2 U	-	<b>0.4</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	-
	21-May-01	0.2 U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	28-Aug-01	0.2 U	-	<b>0.2</b>	-	0.1 U	-	-	-	-
	5-Dec-01	0.2 U	-	<b>0.2</b>	-	0.1 U	-	-	-	-
	27-Feb-02	0.2 U	-	-	-	-	-	-	-	-
	29-May-02	0.2 U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	26-Aug-02	0.2 U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	10-Mar-03	0.2 U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	2-Jun-03	0.2 U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	8-Dec-03	0.2 U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	5-Mar-04	0.2 U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	7-Jun-04	-	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	20-Dec-04	-	-	<b>0.2</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	-
	19-Mar-05	-	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	2-May-07	0.2 U	0.1 U	<b>0.16</b>	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
10-Mar-09	0.1 U	0.1 U	<b>0.15</b>	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U	0.1 U	
5-Apr-11	0.1 U	-	-	-	-	-	-	-	-	
98-IA-MW07	23-Jun-99	1.0 U	-	-	-	0.1 U	-	-	-	-
	9-Nov-99	1.0 U	-	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	10-Apr-00	0.5 U	-	<b>0.2</b> J	0.1 U	<b>0.02</b> J	0.1 U	0.01 U	-	-
	29-Aug-00	0.2 U	-	<b>0.4</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	-
	13-Nov-00	0.2 U	-	<b>0.5</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	-
	27-Feb-02	0.2 U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	26-Aug-02	0.2 U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	2-Jun-03	0.2 U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	5-Mar-04	0.2 U	-	<b>0.4</b>	0.1 U	<b>0.2</b>	0.1 U	0.01 U	-	-
	7-Jun-04	0.2 U	-	<b>0.4</b>	0.1 U	<b>0.2</b>	0.1 U	0.01 U	-	-
	27-Mar-06	0.2 U	-	-	-	-	-	-	-	-
	2-May-07	0.2 U	0.1 U	<b>0.31</b>	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	24-Mar-08	0.1 U	-	-	-	-	-	-	-	-
	10-Mar-09	0.1 U	0.1 U	<b>0.266</b>	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U	0.1 U
	26-Feb-10	0.1 U	-	-	-	-	-	-	-	-
	5-Apr-11	0.1 U	-	-	-	-	-	-	-	-
Duplicate	5-Apr-11	0.1 U	-	-	-	-	-	-	-	-
	27-Feb-12	0.1 U	-	-	-	-	-	-	-	-
98-IA-MW08	23-Jun-99	-	-	-	-	0.1 U	-	-	-	-
	9-Nov-99	1.0 U	-	-	-	0.1 U	-	-	-	-
	10-Apr-00	0.5 U	-	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	29-Aug-00	0.2 U	-	<b>0.5</b>	0.1 U	<b>0.2</b>	0.1 U	0.01 U	-	-
	13-Nov-00	<b>0.3</b>	-	<b>0.4</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	-
	14-Feb-01	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	21-May-01	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	28-Aug-01	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	5-Dec-01	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	27-Feb-02	0.2 U	-	<b>0.4</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	-
	29-May-02	0.2 U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
26-Aug-02	0.2 U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-	

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)	
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>	
98-IA-MW08 cont.	18-Nov-02	0.2	U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	10-Mar-03	0.2	U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	2-Jun-03	0.2	U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	18-Sep-03	0.2	U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	8-Dec-03	0.2	U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	5-Mar-04	0.2	U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	7-Jun-04	0.2	U	-	<b>0.3</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	2-May-07	0.2	U	0.1 U	<b>0.246</b>	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	10-Mar-09	0.1	U	0.1 U	<b>0.258</b>	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U	0.1 U
7-Apr-11	0.1	U	-	-	-	-	-	-	-	-	
98-IA-MW09	23-Jun-99	-	-	-	-	-	0.1 U	-	-	-	
	9-Nov-99	1.0	U	-	0.1 U	0.1 U	-	<b>0.12</b>	0.01 U	-	
	10-Apr-00	0.5	U	-	0.1 U	0.1 U	-	0.1 U	0.01 U	-	
	29-Aug-00	0.2	U	-	<b>0.6</b>	0.1 U	<b>0.3</b>	0.1 U	0.01 U	-	
	13-Nov-00	<b>0.4</b>	-	-	<b>0.5</b>	0.1 U	<b>0.3</b>	0.1 U	0.01 U	-	
	14-Feb-01	0.2	U	-	<b>0.5</b>	0.1 U	<b>0.3</b>	0.1 U	0.01 U	-	
	21-May-01	0.2	U	-	<b>0.6</b>	0.1 U	<b>0.3</b>	0.1 U	0.01 U	-	
	28-Aug-01	0.2	U	-	<b>0.5</b>	-	<b>0.2</b>	-	-	-	
	5-Dec-01	0.2	U	-	<b>0.5</b>	-	<b>0.4</b>	-	-	-	
	27-Feb-02	0.2	U	-	<b>0.5</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	29-May-02	0.2	U	-	<b>0.5</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	26-Aug-02	0.2	U	-	<b>0.5</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	18-Nov-02	0.2	U	-	<b>0.5</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	10-Mar-03	0.2	U	-	<b>0.5</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	2-Jun-03	0.2	U	-	<b>0.5</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	18-Sep-03	0.2	U	-	<b>0.5</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	8-Dec-03	0.2	U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	5-Mar-04	0.2	U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	7-Jun-04	0.2	U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	14-Sep-04	0.2	U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	20-Dec-04	0.2	U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
19-Mar-05	0.2	U	-	<b>0.5</b>	0.1 U	0.1 U	0.1 U	0.01 U	-		
2-May-07	0.2	U	0.1 U	<b>0.342</b>	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
11-Mar-09	0.1	U	0.1 U	<b>0.316</b>	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U	0.1 U	
5-Apr-11	0.1	U	-	-	-	-	-	-	-	-	
98-IA-MW10	23-Jun-99	-	-	-	-	-	0.1 U	-	-	-	
	9-Nov-99	1.0	U	-	-	-	0.1 U	-	-	-	
	10-Apr-00	0.5	U	-	-	-	0.1 U	-	-	-	
	29-Aug-00	0.2	U	-	<b>0.4</b>	0.1 U	<b>0.3</b>	0.1 U	0.01 U	-	
	13-Nov-00	<b>0.3</b>	-	-	<b>0.3</b>	0.1 U	<b>0.2</b>	0.1 U	0.01 U	-	
	14-Feb-01	0.2	U	-	<b>0.2</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	
	21-May-01	0.2	U	-	0.1 U	0.1 U	<b>0.2</b>	0.1 U	0.01 U	-	
	28-Aug-01	0.2	U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	5-Dec-01	0.2	U	-	<b>0.2</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	
	27-Feb-02	0.2	U	-	<b>0.2</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	
	26-Aug-02	0.2	U	-	<b>0.2</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	
	18-Nov-02	0.2	U	-	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	10-Mar-03	0.2	U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	2-Jun-03	0.2	U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	18-Sep-03	0.2	U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	8-Dec-03	0.2	U	-	<b>0.1</b>	0.1 U	<b>0.1</b>	0.1 U	0.01 U	-	
	5-Mar-04	0.2	U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	7-Jun-04	0.2	U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	14-Sep-04	0.2	U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	
	20-Dec-04	0.2	U	-	<b>0.2</b>	0.1 U	0.1 U	0.1 U	0.01 U	-	

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)				
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>				
98-IA-MW10 cont.	19-Mar-05	0.2	U	-	-	-	-	-	-	-				
	2-May-07	0.2	U	0.1	U	<b>0.232</b>	0.1	U	0.1	U	0.1	U		
	11-Mar-09	0.1	U	0.1	U	<b>0.178</b>	0.1	U	0.1	U	0.1	U		
	5-Apr-11	0.1	U	-	-	-	-	-	-	-				
01-IA-MW11	27-Feb-02	0.2	U	-	<b>1.9</b>	0.1	U	<b>0.1</b>	0.1	U	-	-		
	29-May-02	<b>0.4</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	-	-		
	26-Aug-02	0.2	U	-	<b>0.7</b>	0.1	U	<b>0.1</b>	0.1	U	-	-		
	18-Nov-02	0.2	U	-	<b>0.6</b>	0.1	U	0.1	U	0.01	U	-	-	
	10-Mar-03	0.2	U	-	<b>0.6</b>	0.1	U	0.1	U	0.01	U	-	-	
	2-Jun-03	0.2	U	-	<b>0.5</b>	0.1	U	0.1	U	0.01	U	-	-	
	18-Sep-03	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.01	U	-	-	
	8-Dec-03	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.01	U	-	-	
	5-Mar-04	0.2	U	-	<b>0.5</b>	0.1	U	0.1	U	0.01	U	-	-	
	7-Jun-04	0.2	U	-	<b>0.5</b>	0.1	U	0.1	U	0.01	U	-	-	
	14-Sep-04	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.01	U	-	-	
	20-Dec-04	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.01	U	-	-	
	19-Mar-05	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.01	U	-	-	
	27-Mar-06	0.2	U	-	-	-	-	-	-	-	-	-	-	
	2-May-07	0.2	U	0.1	U	<b>0.431</b>	0.1	U	0.1	U	0.1	U	0.1	U
	24-Mar-08	0.1	U	-	-	-	-	-	-	-	-	-	-	
	9-Mar-09	0.1	U	0.1	U	<b>0.547</b>	0.1	U	0.1	U	0.01	U	0.1	U
	26-Feb-10	0.1	U	-	-	-	-	-	-	-	-	-	-	
Duplicate	26-Feb-10	0.1	U	-	-	-	-	-	-	-	-	-		
4-Apr-11	0.099	U	-	-	-	-	-	-	-	-	-			
01-IA-MW12	27-Feb-02	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	-	-	
	29-May-02	-	-	-	<b>0.2</b>	0.1	U	<b>0.1</b>	0.1	U	0.1	U	-	-
	26-Aug-02	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	-	-	
	18-Nov-02	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	-	-	
	10-Mar-03	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	-	-	
	2-Jun-03	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	-	-	
	18-Sep-03	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	-	-	
	8-Dec-03	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	-	-	
	5-Mar-04	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	-	-	
	7-Jun-04	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	-	-	
	14-Sep-04	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	-	-	
	20-Dec-04	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	-	-	
	19-Mar-05	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	-	-	
	2-May-07	0.2	U	0.1	U	<b>0.165</b>	0.1	U	0.1	U	0.1	U	0.1	U
10-Mar-09	0.1	U	0.1	U	<b>0.16</b>	0.1	U	0.1	U	0.01	U	0.1	U	
4-Apr-11	0.099	U	-	-	-	-	-	-	-	-	-			
01-IA-MW13	27-Feb-02	0.2	U	-	<b>0.3</b>	0.1	U	<b>0.1</b>	0.1	U	-	-		
	26-Aug-02	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.1	U	-	-	
	18-Nov-02	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.1	U	-	-	
	10-Mar-03	0.2	U	-	<b>0.4</b>	0.1	U	<b>0.1</b>	0.1	U	-	-		
	2-Jun-03	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	-	-	
	18-Sep-03	0.2	U	-	<b>0.3</b>	0.1	U	<b>0.1</b>	0.1	U	-	-		
	8-Dec-03	0.2	U	-	<b>0.3</b>	0.1	U	<b>0.1</b>	0.1	U	-	-		
	5-Mar-04	0.2	U	-	<b>0.4</b>	0.1	U	<b>0.1</b>	0.1	U	-	-		
	7-Jun-04	0.2	U	-	<b>0.3</b>	0.1	U	<b>0.1</b>	0.1	U	-	-		
	14-Sep-04	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	-	-	
	20-Dec-04	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	-	-	
	19-Mar-05	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	-	-	
	2-May-07	0.2	U	0.1	U	<b>0.391</b>	0.1	U	0.114	0.1	U	0.1	U	
	11-Mar-09	0.1	U	0.1	U	<b>0.29</b>	0.1	U	0.1	U	0.01	U	0.1	U
5-Apr-11	0.1	U	-	-	-	-	-	-	-	-	-			

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)		As (µg/L)	Ba (µg/L)	Cd (µg/L)		Cr (µg/L)		Pb (µg/L)		Hg (µg/L)		Se (µg/L)		Ag (µg/L)		
<b>Cleanup Levels</b>		<b>0.8</b>		<b>5</b>	<b>-</b>	<b>5</b>		<b>50</b>		<b>15</b>		<b>2</b>		<b>-</b>		<b>-</b>		
01-IA-MW14	27-Feb-02	0.2	U	-	<b>1</b>	0.1	U	<b>0.3</b>	<b>0.3</b>	0.01	U	-	-	-	-	-	-	
	29-May-02	0.2	U	-	<b>0.8</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	26-Aug-02	0.2	U	-	<b>0.8</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	10-Mar-03	0.2	U	-	<b>0.5</b>	0.1	U	<b>0.2</b>	<b>0.1</b>	0.1	U	0.01	U	-	-	-	-	
	2-Jun-03	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	8-Dec-03	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5-Mar-04	0.2	U	-	<b>0.3</b>	0.1	U	<b>0.2</b>	<b>0.1</b>	0.1	U	-	-	-	-	-	-	
	7-Jun-04	0.2	U	-	<b>0.4</b>	0.1	U	<b>0.4</b>	<b>0.1</b>	0.1	U	-	-	-	-	-	-	
	14-Sep-04	-	-	-	-	-	-	-	-	-	-	0.01	U	-	-	-	-	
	20-Dec-04	-	-	-	-	-	-	-	-	-	-	0.01	U	-	-	-	-	
	19-Mar-05	0.2	U	-	<b>0.4</b>	0.1	U	<b>0.4</b>	<b>0.1</b>	0.1	U	0.01	U	-	-	-	-	
	2-May-07	0.2	U	<b>0.261</b>	<b>0.605</b>	0.1	U	<b>0.359</b>	<b>0.1</b>	0.1	U	0.01	U	0.1	U	0.1	U	
11-Mar-09	0.1	U	<b>0.217</b>	<b>0.437</b>	0.1	U	<b>0.27</b>	<b>0.1</b>	0.1	U	0.01	U	0.1	U	0.1	U		
5-Apr-11	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
01-IA-MW15	26-Aug-02	0.2	U	-	<b>0.5</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	18-Nov-02	0.2	U	-	<b>0.7</b>	0.1	U	<b>0.1</b>	<b>0.1</b>	0.1	U	0.01	U	-	-	-	-	
	10-Mar-03	0.2	U	-	<b>0.7</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	2-Jun-03	0.2	U	-	<b>0.5</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	18-Sep-03	0.2	U	-	<b>0.5</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	8-Dec-03	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	5-Mar-04	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	7-Jun-04	0.2	U	-	<b>0.4</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	20-Dec-04	0.2	U	-	<b>0.7</b>	0.1	U	<b>0.1</b>	<b>0.1</b>	0.1	U	0.01	U	-	-	-	-	
	19-Mar-05	0.2	U	-	<b>0.6</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	2-May-07	0.2	U	<b>0.115</b>	<b>0.315</b>	0.1	U	<b>0.114</b>	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.1	U	
	10-Mar-09	0.1	U	<b>0.126</b>	<b>0.386</b>	0.1	U	<b>0.145</b>	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.1	U	
Duplicate	10-Mar-09	0.1	U	<b>0.113</b>	<b>0.412</b>	0.1	U	<b>0.134</b>	<b>0.1</b>	0.1	U	0.01	U	0.1	U	0.1	U	
5-Apr-11	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9700-MW1	23-Jun-99	-	-	-	-	-	-	-	-	0.1	U	-	-	-	-	-	-	
	9-Nov-99	1.0	U	-	-	-	-	-	-	0.1	U	-	-	-	-	-	-	
	10-Apr-00	0.5	U	-	-	-	-	-	-	0.1	U	-	-	-	-	-	-	
	29-Aug-00	0.2	U	-	0.5	0.1	U	0.3	0.1	U	0.01	U	-	-	-	-	-	
	13-Nov-00	0.2	U	-	0.5	0.1	U	0.2	0.1	U	0.01	U	-	-	-	-	-	
	14-Feb-01	0.2	U	-	0.3	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	21-May-01	0.2	U	-	0.4	0.1	U	0.1	0.1	U	0.01	U	-	-	-	-	-	
	28-Aug-01	<b>0.5</b>	-	-	0.2	-	-	0.2	-	-	-	-	-	-	-	-	-	
	5-Dec-01	0.2	U	-	0.4	-	-	0.1	-	-	-	-	-	-	-	-	-	
	27-Feb-02	0.2	U	-	0.4	0.1	U	0.2	0.1	U	0.01	U	-	-	-	-	-	
	29-May-02	0.2	U	-	0.4	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	26-Aug-02	0.2	U	-	0.5	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	18-Nov-02	0.2	U	-	0.4	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	10-Mar-03	0.2	U	-	0.4	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	2-Jun-03	0.2	U	-	0.3	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	18-Sep-03	0.2	U	-	0.4	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	8-Dec-03	0.2	U	-	0.3	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	5-Mar-04	0.2	U	-	0.4	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	7-Jun-04	0.2	U	-	0.4	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	14-Sep-04	0.2	U	-	0.3	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	20-Dec-04	0.2	U	-	0.3	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
	19-Mar-05	0.2	U	-	0.4	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	-	
10-Mar-09	0.1	U	0.1	U	<b>0.235</b>	0.1	U	0.1	U	0.1	U	0.01	U	0.1	U	0.1	U	
7-Apr-11	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)		As (µg/L)	Ba (µg/L)	Cd (µg/L)		Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)		Ag (µg/L)		
<b>Cleanup Levels</b>		<b>0.8</b>		<b>5</b>	<b>-</b>	<b>5</b>		<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>		<b>-</b>		
MW-3(3138)	23-Jun-99	-		-	-	-	-	-	0.1	U	-	-	-	-	
	9-Nov-99	1.0	U	-	-	-	-	-	0.1	U	-	-	-	-	
	10-Apr-00	0.5	U	-	-	-	-	-	0.1	U	-	-	-	-	
	29-Aug-00	0.2	U	-	<b>26.8</b>	0.1	U	<b>0.28</b>	0.1	U	0.01	U	-	-	
	13-Nov-00	0.2	U	-	<b>20.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	21-May-01	0.2	U	-	<b>20.5</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-	
	5-Dec-01	0.2	U	-	<b>16.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	27-Feb-02	0.2	U	-	<b>22.4</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-	
	29-May-02	0.2	U	-	<b>23.6</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	26-Aug-02	0.2	U	-	<b>21.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	18-Nov-02	0.2	U	-	<b>17.7</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	10-Mar-03	0.2	U	-	<b>23.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	2-Jun-03	0.2	U	-	<b>19.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	18-Sep-03	0.2	U	-	<b>17.6</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	8-Dec-03	0.2	U	-	<b>17.9</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	5-Mar-04	0.2	U	-	<b>21</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	7-Jun-04	0.2	U	-	<b>21.4</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	14-Sep-04	0.2	U	-	<b>19.9</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	20-Dec-04	0.2	U	-	<b>19</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
19-Mar-05	0.2	U	-	<b>23.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
2-May-07	0.2	U	<b>0.447</b>	<b>18.8</b>	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
11-Mar-09	0.1	U	<b>0.564</b>	<b>16.9</b>	0.1	U	0.1	U	0.1	U	0.01	U	0.1	U	
7-Apr-11	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-	
85-PA-384	23-Jun-99	-		-	-	-	-	-	0.1	U	0.01	U	-	-	
	9-Nov-99	1.0	U	-	-	-	-	-	0.1	U	0.01	U	-	-	
	10-Apr-00	0.5	U	-	-	-	-	-	0.1	U	0.01	U	-	-	
	29-Aug-00	0.2	U	-	<b>0.4</b>	0.1	U	<b>0.1</b>	0.1	U	0.01	U	-	-	
	13-Nov-00	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	14-Feb-01	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	21-May-01	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	28-Aug-01	0.2	U	-	<b>0.2</b>	0.1	U	0.01	U	0.1	U	0.01	U	-	-
	5-Dec-01	0.2	U	-	<b>0.1</b>	0.1	U	0.01	U	0.1	U	0.01	U	-	-
	27-Feb-02	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-
	29-May-02	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	26-Aug-02	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	18-Nov-02	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	10-Mar-03	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	2-Jun-03	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	18-Sep-03	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	8-Dec-03	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	5-Mar-04	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	7-Jun-04	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
14-Sep-04	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
20-Dec-04	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
19-Mar-05	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
2-May-07	0.2	U	0.1	U	<b>0.174</b>	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
10-Mar-09	0.1	U	0.1	U	<b>0.204</b>	0.1	U	0.1	U	0.1	U	0.01	U	0.1	U
7-Apr-11	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-	
AIA-SP01	23-Jun-99	1.0	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	9-Nov-99	1.0	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	10-Apr-00	<b>0.3</b>	<b>J</b>	-	<b>0.1</b>	<b>J</b>	0.1	U	0.1	U	0.01	U	-	-	
	29-Aug-00	<b>0.4</b>		-	<b>0.3</b>	0.1	U	<b>0.2</b>	0.1	U	0.01	U	-	-	
	13-Nov-00	<b>0.3</b>		-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	14-Feb-01	<b>0.4</b>		-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-
	21-May-01	<b>0.3</b>		-	<b>0.4</b>	0.1	U	<b>0.4</b>	0.1	U	0.01	U	-	-	
	28-Aug-01	<b>0.3</b>		-	<b>0.2</b>	-	0.1	U	-	-	-	-	-	-	
	5-Dec-01	<b>0.2</b>		-	<b>0.2</b>	-	0.1	U	-	-	-	-	-	-	
27-Feb-02	<b>0.3</b>		-	0.1	U	0.1	U	0.1	U	0.01	U	-	-		

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>
AIA-SP01 cont.	29-May-02	0.5	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	26-Aug-02	0.4	-	0.4	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	18-Nov-02	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	10-Mar-03	0.4	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	2-Jun-03	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	18-Sep-03	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	8-Dec-03	0.3	-	0.4	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	5-Mar-04	0.2	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	7-Jun-04	0.4	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	14-Sep-04	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	20-Dec-04	0.3	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	19-Mar-05	0.2	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	27-Sep-05	0.3	-	-	-	-	-	-	-	-
	27-Mar-06	0.3	-	-	-	-	-	-	-	-
	7-Aug-06	0.6	-	-	-	-	-	-	-	-
	2-May-07	0.2	0.1 U	0.172	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	11-Sep-07	0.2	-	-	-	-	-	-	-	-
	24-Mar-08	0.4	-	-	-	-	-	-	-	-
	29-Sep-08	0.20	-	-	-	-	-	-	-	-
	9-Mar-09	0.12	0.1 U	0.219	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U	0.1 U
	28-Sep-09	0.23	-	-	-	-	-	-	-	-
	26-Feb-10	0.1 U	-	-	-	-	-	-	-	-
	13-Sep-10	0.24	-	-	-	-	-	-	-	-
	4-Apr-11	0.28	-	-	-	-	-	-	-	-
	2-Aug-11	0.24	-	-	-	-	-	-	-	-
	24-Mar-12	0.15	-	-	-	-	-	-	-	-
	6-Aug-12	0.16	-	-	-	-	-	-	-	-
20-Apr-13	0.16	-	-	-	-	-	-	-	-	
Duplicate	20-Apr-13	0.16	-	-	-	-	-	-	-	
	26-Aug-13	0.15	-	-	-	-	-	-	-	
	12-May-14	0.32	-	-	-	-	-	-	-	
	20-Oct-14	0.18 C	-	-	-	-	-	-	-	
	14-Apr-15	0.21 C	-	-	-	-	-	-	-	
AIA-SP02	23-Jun-99	1.0 U	-	-	-	-	-	-	-	
	9-Nov-99	1.0 U	-	-	-	-	-	-	-	
	10-Apr-00	0.5 J	-	0.07 J	0.1 U	0.1 U	0.1 U	0.01 U	-	
	29-Aug-00	0.2	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	
	13-Nov-00	0.2	-	0.4	0.1 U	0.1 U	0.1 U	0.01 U	-	
	14-Feb-01	0.2	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	21-May-01	-	-	-	0.1 U	0.3	0.1 U	0.01 U	-	
	28-Aug-01	0.2 U	-	0.2	-	0.1 U	-	-	-	
	5-Dec-01	0.2	-	0.2	-	0.1 U	-	-	-	
	27-Feb-02	0.2 U	-	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	-	
	29-May-02	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	26-Aug-02	0.4	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	
	18-Nov-02	0.3	-	0.4	0.1 U	0.1 U	0.1 U	0.01 U	-	
	10-Mar-03	0.4	-	0.4	0.1 U	0.1 U	0.1 U	0.01 U	-	
	2-Jun-03	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	18-Sep-03	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	8-Dec-03	0.2 U	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	5-Mar-04	0.2	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	7-Jun-04	0.2 U	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	14-Sep-04	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	20-Dec-04	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	
	19-Mar-05	0.2	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>
AIA-SP02 cont.	27-Sep-05	0.2	-	-	-	-	-	-	-	-
	27-Mar-06	0.2	-	-	-	-	-	-	-	-
	7-Aug-06	0.3	-	-	-	-	-	-	-	-
	2-May-07	2.14 *	0.1 U	0.141	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	11-Sep-07	0.1	-	-	-	-	-	-	-	-
	24-Mar-08	0.4	-	-	-	-	-	-	-	-
	29-Sep-08	0.16	-	-	-	-	-	-	-	-
	9-Mar-09	0.14	0.1 U	0.215	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U	0.1 U
	28-Sep-09	0.19	-	-	-	-	-	-	-	-
	26-Feb-10	0.78	-	-	-	-	-	-	-	-
	13-Sep-10	0.16	-	-	-	-	-	-	-	-
	4-Apr-11	0.22	-	-	-	-	-	-	-	-
	2-Aug-11	0.18	-	-	-	-	-	-	-	-
	24-Mar-12	0.14	-	-	-	-	-	-	-	-
	6-Aug-12	0.16	-	-	-	-	-	-	-	-
	20-Apr-13	0.099	-	-	-	-	-	-	-	-
	26-Aug-13	0.1	-	-	-	-	-	-	-	-
12-May-14	0.16	-	-	-	-	-	-	-	-	
20-Oct-14	0.11	C	-	-	-	-	-	-	-	
13-Apr-15	0.56	C	-	-	-	-	-	-	-	
AIA-SP03	23-Jun-99	1.0	U	-	1.0 U	0.1 U	0.1 U	0.1 U	0.01 U	-
	9-Nov-99	1.0	U	-	1.0 U	0.1 U	0.1 U	0.1 U	0.01 U	-
	10-Apr-00	0.5	U	-	0.14 J	0.1 U	0.1 U	0.1 U	0.01 U	-
	29-Aug-00	0.3	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	13-Nov-00	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	14-Feb-01	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	21-May-01	0.3	-	0.4	0.1 U	0.3	0.1 U	0.01 U	-	-
	28-Aug-01	0.3	-	0.4	-	0.1 U	-	-	-	-
	5-Dec-01	0.3	-	0.2	-	0.2	-	-	-	-
	27-Feb-02	0.3	-	1.0 U	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	29-May-02	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	26-Aug-02	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	18-Nov-02	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	10-Mar-03	0.3	-	0.3	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	2-Jun-03	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	18-Sep-03	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	8-Dec-03	0.4	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	5-Mar-04	0.2	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	7-Jun-04	0.2	U	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-
	14-Sep-04	0.3	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	20-Dec-04	0.2	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	19-Mar-05	0.2	-	0.2	0.1 U	0.1 U	0.1 U	0.01 U	-	-
	27-Sep-05	0.2	-	-	-	-	-	-	-	-
	27-Mar-06	0.2	-	-	-	-	-	-	-	-
	7-Aug-06	0.2	J	-	-	-	-	-	-	-
	2-May-07	0.2	U	0.1 U	0.217	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	11-Sep-07	0.1	-	-	-	-	-	-	-	-
	24-Mar-08	0.4	-	-	-	-	-	-	-	-
	29-Sep-08	0.156	-	-	-	-	-	-	-	-
	9-Mar-09	0.1	U	0.1 U	0.175	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U
	28-Sep-09	0.171	-	-	-	-	-	-	-	-
	26-Feb-10	0.12	-	-	-	-	-	-	-	-
	13-Sep-10	0.11	-	-	-	-	-	-	-	-
4-Apr-11	0.13	-	-	-	-	-	-	-	-	
1-Aug-11	0.14	-	-	-	-	-	-	-	-	

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)					
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>					
AIA-SP03 cont.	24-Mar-12	<b>0.13</b>	-	-	-	-	-	-	-	-					
	6-Aug-12	0.1	U	-	-	-	-	-	-	-					
	20-Apr-13	0.087	J	-	-	-	-	-	-	-					
	26-Aug-13	0.063	J	-	-	-	-	-	-	-					
	12-May-14	0.058	J	-	-	-	-	-	-	-					
20-Oct-14	0.066	JC	-	-	-	-	-	-	-						
AIA-SP04	23-Jun-99	1.0	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	9-Nov-99	1.0	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	10-Apr-00	<b>0.9</b>	-	<b>0.05</b>	J	0.1	U	<b>0.15</b>	0.1	U	0.01	U	-	-	
	29-Aug-00	<b>0.8</b>	-	<b>0.4</b>	0.1	U	<b>0.2</b>	<b>0.2</b>	0.01	U	-	-	-	-	
	13-Nov-00	<b>0.9</b>	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	14-Feb-01	<b>0.7</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	21-May-01	<b>0.7</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	28-Aug-01	<b>0.7</b>	-	<b>0.2</b>	-	0.1	U	-	-	-	-	-	-	-	
	5-Dec-01	<b>0.6</b>	-	<b>0.2</b>	-	0.1	U	-	-	-	-	-	-	-	
	27-Feb-02	<b>0.6</b>	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	-	
	29-May-02	<b>0.7</b>	-	<b>0.4</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	26-Aug-02	<b>0.7</b>	-	<b>0.4</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	18-Nov-02	<b>0.8</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	10-Mar-03	<b>0.7</b>	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	2-Jun-03	<b>0.5</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	18-Sep-03	<b>0.6</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	8-Dec-03	<b>0.5</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	5-Mar-04	<b>0.5</b>	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	7-Jun-04	<b>0.7</b>	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	14-Sep-04	<b>0.5</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	20-Dec-04	<b>0.4</b>	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	19-Mar-05	<b>0.5</b>	-	-	-	-	-	-	-	-	-	-	-	-	
	27-Sep-05	<b>0.5</b>	-	-	-	-	-	-	-	-	-	-	-	-	
	27-Mar-06	<b>0.5</b>	-	-	-	-	-	-	-	-	-	-	-	-	
	7-Aug-06	<b>0.8</b>	-	-	-	-	-	-	-	-	-	-	-	-	
	2-May-07	<b>0.6</b>	0.1	U	<b>0.192</b>	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	11-Sep-07	<b>0.9</b>	-	-	-	-	-	-	-	-	-	-	-	-	
	24-Mar-08	<b>1.0</b>	-	-	-	-	-	-	-	-	-	-	-	-	
	29-Sep-08	<b>0.781</b>	-	-	-	-	-	-	-	-	-	-	-	-	
	9-Mar-09	<b>0.67</b>	0.1	U	<b>0.161</b>	0.1	U	0.1	U	0.1	U	0.01	U	0.1	U
	28-Sep-09	<b>0.724</b>	-	-	-	-	-	-	-	-	-	-	-	-	
26-Feb-10	<b>0.15</b>	-	-	-	-	-	-	-	-	-	-	-	-		
13-Sep-10	<b>0.89</b>	-	-	-	-	-	-	-	-	-	-	-	-		
4-Apr-11	<b>0.87</b>	-	-	-	-	-	-	-	-	-	-	-	-		
1-Aug-11	<b>1.1</b>	-	-	-	-	-	-	-	-	-	-	-	-		
24-Mar-12	<b>1.1</b>	-	-	-	-	-	-	-	-	-	-	-	-		
6-Aug-12	<b>0.85</b>	-	-	-	-	-	-	-	-	-	-	-	-		
20-Apr-13	<b>0.7</b>	-	-	-	-	-	-	-	-	-	-	-	-		
26-Aug-13	<b>0.59</b>	-	-	-	-	-	-	-	-	-	-	-	-		
12-May-14	<b>0.63</b>	-	-	-	-	-	-	-	-	-	-	-	-		
20-Oct-14	<b>0.8</b>	C	-	-	-	-	-	-	-	-	-	-	-		
13-Apr-15	<b>0.38</b>	J	-	-	-	-	-	-	-	-	-	-	-		
AIA-SP05	23-Jun-99	1.0	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	9-Nov-99	1.0	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	10-Apr-00	0.5	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-	
	29-Aug-00	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	
	13-Nov-00	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	
	14-Feb-01	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	
	21-May-01	<b>0.3</b>	-	<b>0.4</b>	0.1	U	<b>0.3</b>	0.1	U	0.01	U	-	-		



**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)							
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	<b>-</b>	<b>-</b>							
AIA-SP05 cont.	28-Aug-01	0.2	U	-	<b>0.1</b>	-	0.1	U	-	-	-	-					
	5-Dec-01	0.2	U	-	<b>0.1</b>	-	0.1	U	-	-	-	-					
	27-Feb-02	0.2	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-			
	29-May-02	0.2	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-			
	26-Aug-02	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	18-Nov-02	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	10-Mar-03	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	2-Jun-03	0.2	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-			
	18-Sep-03	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	8-Dec-03	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	5-Mar-04	0.2	U	-	0.1	U	0.1	U	0.1	U	0.01	U	-	-			
	7-Jun-04	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	14-Sep-04	0.2	U	-	<b>0.3</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	20-Dec-04	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	19-Mar-05	0.2	U	-	<b>0.1</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	27-Sep-05	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	27-Mar-06	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	7-Aug-06	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	2-May-07	0.2	U	0.1	U	<b>0.19</b>	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
	11-Sep-07	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
	24-Mar-08	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
	29-Sep-08	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
	9-Mar-09	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.01	U	0.1	U	0.1	U
	28-Sep-09	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
	26-Feb-10	<b>0.15</b>	-	-	-	-	-	-	-	-	-	-	-	-	-		
	13-Sep-10	<b>0.13</b>	-	-	-	-	-	-	-	-	-	-	-	-	-		
	4-Apr-11	0.099	U	-	-	-	-	-	-	-	-	-	-	-	-		
	1-Aug-11	0.099	-	-	-	-	-	-	-	-	-	-	-	-	-		
	24-Mar-12	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
	6-Aug-12	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
20-Apr-13	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-			
26-Aug-13	0.028	-	-	-	-	-	-	-	-	-	-	-	-	-			
12-May-14	0.017	J	-	-	-	-	-	-	-	-	-	-	-	-			
20-Oct-14	0.04	U	-	-	-	-	-	-	-	-	-	-	-	-			
13-Apr-15	0.04	U	-	-	-	-	-	-	-	-	-	-	-	-			
Hatchery	18-Nov-02	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	2-Jun-03	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	18-Sep-03	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	8-Dec-03	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	7-Jun-04	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	14-Sep-04	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	20-Dec-04	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	19-Mar-05	0.2	U	-	<b>0.2</b>	0.1	U	0.1	U	0.1	U	0.01	U	-	-		
	27-Sep-05	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	27-Mar-06	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	7-Aug-06	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-		
	2-May-07	0.2	U	0.1	U	<b>0.205</b>	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
	11-Sep-07	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
	24-Mar-08	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
	11-Mar-09	0.1	U	0.1	U	<b>0.196</b>	0.1	U	0.1	U	0.1	U	0.01	U	0.1	U	
	28-Sep-09	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		
	26-Feb-10	0.098	-	-	-	-	-	-	-	-	-	-	-	-	-		
	13-Sep-10	0.09	J	-	-	-	-	-	-	-	-	-	-	-	-		
	4-Apr-11	<b>0.12</b>	-	-	-	-	-	-	-	-	-	-	-	-	-		
	2-Aug-11	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-		

**Table 3-1 - RDX and Dissolved Metals Analytical Results**  
 Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

Location ID	Date	RDX (µg/L)	As (µg/L)	Ba (µg/L)	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Hg (µg/L)	Se (µg/L)	Ag (µg/L)
<b>Cleanup Levels</b>		<b>0.8</b>	<b>5</b>	-	<b>5</b>	<b>50</b>	<b>15</b>	<b>2</b>	-	-
Hatchery cont. Duplicate	24-Mar-12	<b>0.14</b>	-	-	-	-	-	-	-	-
	6-Aug-12	0.1	U	-	-	-	-	-	-	-
	6-Aug-12	0.1	U	-	-	-	-	-	-	-
	20-Apr-13	0.1	U	-	-	-	-	-	-	-
	12-May-14	0.071	J	-	-	-	-	-	-	-
	20-Oct-14	0.1	C	-	-	-	-	-	-	-
	14-Apr-15	0.078	J	-	-	-	-	-	-	-

Notes:

RDX = Research Department eXplosive

As = Arsenic

Ba = Barium

Cd = Cadmium

Cr = Chromium

Pb = Lead

Hg = Mercury

Se = Selenium

Ag = Silver

µg/L = Micrograms per liter

0.1/0.04 U = Analyte not detected at or above laboratory practical quantification limit of 0.1 or 0.04 µg/L

**BOLD** = Analyte detected at or above laboratory practical quantification limit of 0.1 µg/L

**BOLD** = Analyte detected at or above cleanup level

R = Results rejected due to matrix interference

J = Estimated concentration

C = Qualitatively confirmed by gas chromatography/mass spectrometry methods/pattern recognition/comparing historical data

U = Analyte not detected at or above method detection limit

- = Not sampled, not applicable, no data

\* - Suspected outliers. Checked analytical reports and did not find qualifier for results.

RDX cleanup level is for groundwater, MTCA Method B, Carcinogen, standard formula value.

Metals cleanup levels are MTCA Method A cleanup levels for groundwater.

**Table 4-1 - Relative Percent Difference between Primary and Duplicate Samples**  
Artillery Impact Area, Joint Base Lewis-McChord, Washington 98433

<b>Sample ID</b>	<b>RDX</b>
<b>Duplicate ID</b>	<b>(µg/L)</b>
<b>October 2014</b>	
98-IA-MW02	0.092
Dup 1	0.11
RPD	17.82%
<b>April 2015</b>	
98-IA-MW03	0.68
Dup 1	0.69
RPD	1.46%

Notes:

µg/L = Micrograms per liter

RPD = Relative Percent Difference

**Table 5-1 - Descriptive Statistics**  
 Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433

Well ID	First Sample Date	Last Sample Date	Number of ND's	Number of Samples	Sample Mean	Standard Deviation	Minimum RDX Conc.	Maximum RDX Conc.	Date*	Normally or Log Normally Distributed?
<b>Artillery Impact Area</b>										
98-IA-MW01	23-Jun-99	13-Apr-15	3	35	0.336	0.242	0.14	1.4	23-Jun-99	No
98-IA-MW02	23-Jun-99	13-Apr-15	4	24	0.496	0.651	0.09	3.2	23-Jun-99	Yes
98-IA-MW03	23-Jun-99	13-Apr-15	8	37	0.687	0.404	0.1	1.5	24-Mar-08	No
98-IA-MW04	23-Jun-99	13-Apr-15	1	38	0.456	0.189	0.16	1.3	24-Mar-08	No
98-IA-MW05	23-Jun-99	13-Apr-15	20	20	0.202	0.211	0.04	1	-	non-detects
AIA-SP01	23-Jun-99	14-Apr-15	3	42	0.315	0.186	0.1	1	9-Nov-99	No
AIA-SP02	23-Jun-99	13-Apr-15	7	40	0.292	0.215	0.099	1	9-Nov-99	No
AIA-SP03	23-Jun-99	20-Oct-14	5	41	0.270	0.202	0.058	1	9-Nov-99	Yes
AIA-SP04	23-Jun-99	13-Apr-15	2	42	0.703	0.202	0.15	1.1	27-Feb-12	Yes
AIA-SP05	23-Jun-99	13-Apr-15	37	42	0.207	0.196	0.017	1	9-Nov-99	non-detects
Hatchery	18-Nov-02	13-Apr-15	20	27	0.144	0.052	0.071	0.2	2-May-07	non-detects

Notes:

- = Not Applicable

\* = Date sample was collected from monitoring well or spring with highest concentration of RDX

Statistics were not run if non-detects are more than half of the data set per well per analyte.

Alpha level set at 0.05 for summary statistics

**Table 5-2 - Test for Normality and Linear Regression Trends of RDX Concentrations**  
 Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433

<b>Well ID</b>	<b>P Value</b>	<b>Normally Distributed?</b>	<b>Log P Value</b>	<b>Log Normally Distributed?</b>	<b>Linear Regression P Value</b>	<b>Slope</b>	<b>Trend</b>	<b>Statistically?</b>
98-IA-MW01	<0.0001	No	0.004	No	-	-	-	-
98-IA-MW02	<0.0001	No	0.292	Yes	0.0167	-0.0001624	Decreasing	Yes
98-IA-MW03	0.014	No	0.005	No	-	-	-	-
98-IA-MW04	<0.0001	No	0.000	No	-	-	-	-
AIA-SP01	<0.0001	No	0.045	No	-	-	-	-
AIA-SP02	<0.0001	No	0.008	No	-	-	-	-
AIA-SP03	<0.0001	No	0.175	Yes	<0.0001	-0.0000870	Decreasing	Yes
AIA-SP04	0.478	Yes	-	-	0.8717	-3.0489E-06	Decreasing	No

Notes:

- = Not measured, not applicable

Alpha level set at 0.05 for linear regression

**Table 5-3 - Mann-Kendall Test on Non-Parametric RDX Concentrations**

Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433

<b>Well ID</b>	<b>Tau Statistic</b>	<b>Two Tailed P Value</b>	<b>Trend</b>	<b>Statistically?</b>
98-IA-MW01	-0.71	<0.0001	Decreasing	Yes
98-IA-MW03	0.38	0.0013	Increasing	Yes
98-IA-MW04	-0.48	<0.0001	Decreasing	Yes
AIA-SP01	-0.46	<0.0001	Decreasing	Yes
AIA-SP02	-0.41	0.0004	Decreasing	Yes

Notes:

Alpha level set at 0.05 for Kendall's Tau test for correlation

**APPENDIX A**

**COMPLETED FIELD FORMS AND  
LABORATORY ANALYTICAL REPORTS**

**(PROVIDED ON CD)**



## Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
18743 Front Street, NE, Suite 201  
Poulsbo, WA 98370

### Sampling Matrix Form

Well ID	Pump	Date	Time	DTW	DTB	Previous DTB	Sample ID	Nitroaromatics/Nitr amines EPA Method SW846- 8330 1 L UP Amber
98-IA-MW01	E2	10/20/14	1630	38.51	—	46	AIA141102098IAMW01	2
98-IA-MW02	E2	10/20/14	1535	35.85	—	40	AIA141102098IAMW02	2
98-IA-MW02	E2	10/20/14	1540	-	-	40	AIA1411020DUP1	2
98-IA-MW03	E2	10/20/14	1500	74.10	—	78	AIA141102098IAMW03	2
98-IA-MW04	E2	10/20/14	1340	54.65	—	63	AIA141102098IAMW04	2
98-IA-MW05	E2	10/20/14	NA	123.22	126.00	121	AIAYYMMDD98IAMW05	2
AIA-SP01	SW	10/20/14	1005	-	-	-	AIA1411020AIASP01	2
AIA-SP02	SW	10/20/14	1210	-	-	-	AIA1411020AIASP02	2
AIA-SP03	SW	10/20/14	1215	-	-	-	AIA1411020AIASP03	2
AIA-SP04	SW	10/20/14	1140	-	-	-	AIA1411020AIASP04	2
AIA-SP05	SW	10/20/14	1045	-	-	-	AIA1411020AIASP05	2
Fish Hatchery	SP	10/20/14	0955	-	-	-	AIAYYMMDDFHDS	6
Total	12	12	12	5	5		12	28

Notes

DTW = Depth to water





**Sealaska Environmental Services**  
 Marine Science Center, P.O. Box 869  
 18743 Front Street, NE, Suite 201  
 Poulsbo, WA 98370

**Well Inspection,  
 Purging, and Field  
 Measurement Form**

Contract Number: \_\_\_\_\_ Task Order: 01 Installation: JBLM Site Name: A1A

**Well Data**

Well ID: 98-1A-MW01 Measuring Point (MP): Top of Casing, Rim Monument, Other: \_\_\_\_\_  
 Total Well Depth (ft below MP): - Pooled Water in Well Head: Y: - N: X Well Casing Volume (liters/ft): 0.6  
 Depth to Water (ft below MP): 38.51 Inner Casing Straight and Clear: Y: X N: - Well Volume (liters): -  
 Length of Water Column in well (ft): - Well Head Locked: Y: X N: - 3 x Well Volume (liters): -  
 Diameter of well casing (inches): 2 Exterior Seal Good Y: X N: - Volume Purged (liters): -  
 Purge Method: Peristaltic/Submersible/Bladder/Other: \_\_\_\_\_ Remarks: -

**Water Sample Data**

Sample ID: A1A141020981AMND1 Type: ENV Date: 10/10/14 Time: 1630 # Containers: 2  
 QC Sample ID: N/A Type: N/A Date: N/A Time: N/A # Containers: N/A  
 Sampling Personnel: B.V.S.P Sampling Method: low flow/grab  
 Remarks (color, odor, etc.): \_\_\_\_\_

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
Stabilization Requirements		(± 0.5)	(± 2.0)	(± 10%)	(± 10%)	(± 10% or <10)	(± 10%)	(± 10)	
1605	0	38.51							<b>Initial Depth to Water (Pre-pumping)</b>
1607	started pump								Set flow rate: 480 mL/min
1615	connect to flow cell								
1618	10.0	38.53	6.52	0.099	1.4	11.43	13.23	287	
1621	11.44	38.53	6.42	0.098	0.7	11.16	13.95	287	
1624	12.88	38.53	6.30	0.097	0.1	10.98	14.56	296	
1627	14.32	38.53	6.24	0.095	0.2	10.86	14.43	298	
<b>Final (at time of sample collection)</b>									
1627	14.32	38.53	6.24	0.095	0.2	10.86	14.43	298	

**Well Volume Calculation**

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

- 1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5

Meter Model: HCL1BA  
U-11



# Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
18743 Front Street, NE, Suite 201  
Poulsbo, WA 98370

## Well Inspection, Purging, and Field Measurement Form

Contract Number: \_\_\_\_\_ Task Order: 01 Installation: JBLM Site Name: AIA

### Well Data

Well ID: 98-1A-21W02 Measuring Point (MP): Top of Casing, Rim Monument, Other: \_\_\_\_\_  
 Total Well Depth (ft below MP): - Pooled Water in Well Head: Y: - N:  Well Casing Volume (liters/ft): -  
 Depth to Water (ft below MP): 35.85 Inner Casing Straight and Clear: Y:  N: - Well Volume (liters): -  
 Length of Water Column in well (ft): - Well Head Locked: Y:  N: - 3 x Well Volume (liters): -  
 Diameter of well casing (inches): - Exterior Seal Good Y:  N: - Volume Purged (liters): -  
 Purge Method: Peristaltic/Submersible/Bladder/Other: \_\_\_\_\_ Remarks: -

### Water Sample Data

Sample ID: AIA1410209SIAMN02 Type: ENV. Date: 10/20/14 Time: 1535 # Containers: 2  
 QC Sample ID: AIA141020DUP1 Type: DUP. Date: 10/20/14 Time: 1540 # Containers: 2  
 Sampling Personnel: S.P. B.K. Sampling Method: low flow  
 Remarks (color, odor, etc.): Bees

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
Stabilization Requirements		(± 0.5)	(± 2.0)	(± 10%)	(± 10%)	(± 10% or <10)	(± 10%)	(± 10)	
<u>1516</u>	<u>0</u>	<u>35.85</u>	<b>Initial Depth to Water (Pre-pumping)</b>						
			<u>6.18</u>	<u>0.115</u>	<u>169.0</u>	<u>12.06</u>	<u>12.54</u>	<u>300</u>	
			<b>Final (at time of sample collection)</b>						

### Well Volume Calculation

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5



# Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
18743 Front Street, NE, Suite 201  
Poulsbo, WA 98370

## Well Inspection, Purging, and Field Measurement Form

Contract Number: \_\_\_\_\_ Task Order: 01 Installation: JBLM Site Name: A1A

### Well Data

Well ID: 98-1A-MW03 Measuring Point (MP): Top of Casing, Rim Monument, Other: \_\_\_\_\_  
 Total Well Depth (ft below MP): 74.10 Pooled Water in Well Head: Y: \_\_\_ N:  Well Casing Volume (liters/ft): 0.4  
 Depth to Water (ft below MP): 74.10 Inner Casing Straight and Clear: Y:  N: \_\_\_ Well Volume (liters): \_\_\_  
 Length of Water Column in well (ft): \_\_\_ Well Head Locked: Y:  N: \_\_\_ 3 x Well Volume (liters): \_\_\_  
 Diameter of well casing (inches): 2 in Exterior Seal Good Y:  N: \_\_\_ Volume Purged (liters): \_\_\_  
 Purge Method: Peristaltic  Submersible/Bladder/Other: \_\_\_\_\_ Remarks: \_\_\_\_\_

### Water Sample Data

Sample ID: A1A141020981AMW03 Type: ENV Date: 10/20/14 Time: 1500 # Containers: 2  
 QC Sample ID: NA Type: NA Date: NA Time: NA # Containers: NA  
 Sampling Personnel: S.P., B.K. Sampling Method: low flow/grabs  
 Remarks (color, odor, etc.): NONE

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
Stabilization Requirements		(±0.5)	(±2.0)	(±10%)	(±10%)	(±10% or <10)	(±10%)	(±10)	
1435	0	74.10							Initial Depth to Water (Pre-pumping)
1442	Started Pump				Flow rate: 460ml/min				
1444	Connect to flow cell								
1447	4.0	69.10	6.27	0.142	9.3	11.31	14.48	203	
1450	5.38	69.10	6.41	0.128	10.7	11.46	14.83	217	
1453	6.76	69.10	6.35	0.123	12.2	11.46	14.89	224	
1456	8.14	69.10	6.31	0.121	13.8	11.41	14.88	226	
1459	9.52	69.10	6.28	0.117	14.4	11.51	15.03	231	
<b>Final (at time of sample collection)</b>									
1459	9.52	69.10	6.28	0.117	14.4	11.51	15.03	231	

### Well Volume Calculation

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5



# Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
18743 Front Street, NE, Suite 201  
Poulsbo, WA 98370

## Well Inspection, Purging, and Field Measurement Form

Contract Number: \_\_\_\_\_ Task Order: \_\_\_\_\_ Installation: \_\_\_\_\_ Site Name: \_\_\_\_\_

### Well Data

Well ID: 15-1A-21W04 Measuring Point (MP): Top of Casing, Rim Monument, Other: \_\_\_\_\_  
 Total Well Depth (ft below MP): — Pooled Water in Well Head: Y:  N:  Well Casing Volume (liters/ft): 0.6  
 Depth to Water (ft below MP): 54.45 Inner Casing Straight and Clear: Y:  N:  Well Volume (liters): —  
 Length of Water Column in well (ft): — Well Head Locked: Y:  N:  3 x Well Volume (liters): —  
 Diameter of well casing (inches): 2.0 Exterior Seal Good Y:  N:  Volume Purged (liters): —  
 Purge Method: Peristaltic/Submersible/Bladder/Other: \_\_\_\_\_ Remarks: —

### Water Sample Data

Sample ID: A1A141020981A11W04 Type: ENV Date: 10/20/14 Time: 1340 # Containers: 2  
 QC Sample ID: NA Type: WA Date: NA Time: NA # Containers: NA  
 Sampling Personnel: S.P. BVE, T.L. Sampling Method: low flow / grab  
 Remarks (color, odor, etc.): None

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
Stabilization Requirements		(± 0.5)	(± 2.0)	(± 10%)	(± 10%)	(± 10% or <10)	(± 10%)	(± 10)	
1321	0	54.65							
<b>Initial Depth to Water (Pre-pumping)</b>									
1323	Started pump			flow rate 4.20 ml/min					
1328	12.0	54.70	4.31	0.001	132.0	10.93	16.75	260	
1331	13.76	54.70	4.06	0.001	133.0	11.21	15.25	260	
1334	14.52	54.70	4.10	0.001	134.0	11.28	14.75	257	
1337	15.78	54.70	4.14	0.001	136.0	11.27	14.67	256	
<b>Final (at time of sample collection)</b>									
1337	15.78	54.70	4.14	0.001	136.0	11.27	14.68	256	

### Well Volume Calculation

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5

Meter Model: Hydro



# SEALASKA

## DAILY SAFETY BRIEFING FORM

Date: 10/20/2014 Project Name/Location: TO 01 JBLM

Shift/Department: Field Person Conducting Briefing: V. Sunrise Patterson

Weather: Periods of rain. A few rumbles of thunder possible late  
Hi-61°F 10-15 mph winds 70% chance of rain

### 1. DAILY ACTIVITIES/TASKS

1. <u>Mob</u>
2. <u>GW sampling</u>
3.
4.
5.

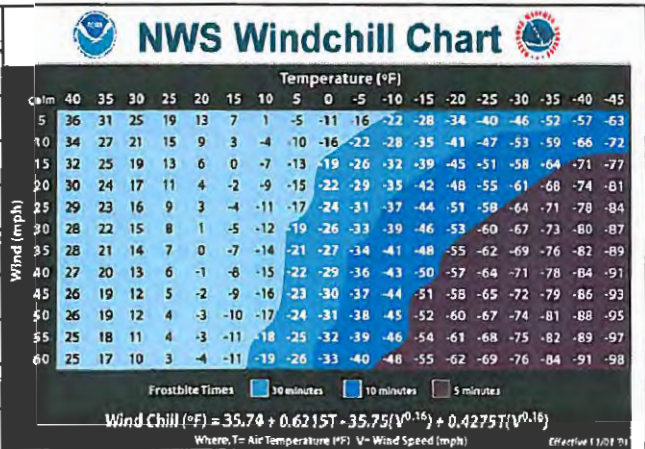
### 2. AWARENESS (e.g., special HS concerns, recent incidents, etc.):

Thermal stress; Vehicle operations; Slips, trips & falls; Proper PPE - Modified Level D,  
Proper lifting, pinch points, cuts & scrapes, Emergency communication,  
Emergency equipment, Hospital ROUTE, HYDRATION,

### 3. OTHER ISSUES (attendee comments, etc.):

### 4. ATTENDEES (Print Name):

1. <u>Tom MALAMUKA</u>
2. <u>Elizabeth Kercher</u>
3. <u>Tom J LYNOTT</u>
4.
5.
6.
7.
8.
9.
10.





**Sealaska Environmental Services**  
 Marine Science Center, P.O. Box 869  
 18743 Front Street, NE, Suite 201  
 Poulsbo, WA 98370

**Sampling Matrix Form**

Well ID	Pump	Date	Time	DTW	DTB	DTB	Sample ID	Nitroaromatics/ Nitramines EPA Method SW846-8330 1 L UP Amber
✓ 98-IA-MW01	DE2	4-13-15	1625	32.59	—	46	AIA15041398IAMW01	2
✓ 98-IA-MW02	DE2	4-13-15	1530	33.48	—	40	AIA15041398IAMW02	2
✓ 98-IA-MW03	DE2	4-13-15	<del>8400</del> 67.70	—	—	78	AIA15041398IAMW03	2
✓ 98-IA-MW03	DE2	4-13-15	1000	-	-	78	AIA15041398IAMW13	2
✓ 98-IA-MW04	DE2	4-13-15	1350	51.26	—	63	AIA15041398IAMW04	2
✓ 98-IA-MW05	E2	4-13-15	1250	117.63	124.10	121	AIA15041398IAMW05	2
✓ 98-IA-MW06	NA	4-13-15	1705	32.03	41.40	-	-	-
✓ 98-IA-MW07	NA	4-13-15	1720	49.99	55.55	-	-	-
✓ 98-IA-MW08	NA	4-13-15	1755	32.16	41.70	-	-	-
✓ 98-IA-MW11	NA	4-13-15	1555	42.65	65.54	-	-	-
✓ 98-IA-MW12	NA	4-13-15	1640	23.61	53.55	-	-	-
✓ 98-IA-MW13	NA	4-13-15	1700	27.31	58.58	-	-	-
⊙ AIA-SP01	SW	4-14-15	0835	-	-	-	AIA150413AIASP01	2
✓ AIA-SP02	SW	4-13-15	1415	-	-	-	AIA150413AIASP02	2
✗ AIA-SP03	SW	UNABLE TO SAMPLE (TIME)		-	-	-	AIA150413AIASP03	2
✓ AIA-SP04	SW	4-13-15	1330	-	-	-	AIA150413AIASP04	2
✓ AIA-SP05	SW	4-13-15	1130	-	-	-	AIA150413AIASP05	2
Fish Hatchery	SP	4-14-15	0820	-	-	-	AIA150413FHDS	6
Total	12	12	12	5	5		12	28

Notes  
 Laboratory: ALS      PO#: PO-01281AJ      Turnaround Time (TAT): Standard  
 DTW = Depth to water      Duplicate      MSMSD

Bottle Order: 30 1 L Amber UP

- 98-IA-MW02: Faulty pump made it hard to collect parameters, collected parameters from a cup
- 98-IA-MW04: Inside gate
- 98-IA-MW05: Inside gate; Has not had enough water to allow for sampling during previous events
- AIA-SP03: Inside gate
- AIA-SP04: Inside gate
- AIA-SP05: Inside gate
- Fish Hatchery: Must go through a gate, gate wasn't locked for us and Tom Lynott never saw it locked  
Collected from sink in kitchen

AIA PURGE H<sub>2</sub>O SAMPLE:  
 ID: AIA150427      DATE: 4-27-15      TIME: 1620



# Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
 18743 Front Street, NE, Suite 201  
 Poulsbo, WA 98370

## Well Inspection, Purging, and Field Measurement Form

Contract Number: \_\_\_\_\_ Task Order: 01 Installation: JBLM Site Name: AIA

### Well Data

Well ID: 98-1A-MW01 Measuring Point (MP): Top of Casing Rim Monument, Other: \_\_\_\_\_  
 Total Well Depth (ft below MP): 46 (22m + 24m) Pooled Water in Well Head: Y: \_\_\_\_\_ N:  Well Casing Volume (liters/ft): 0.6  
 Depth to Water (ft below MP): 32.59 Inner Casing Straight and Clear: Y:  N: \_\_\_\_\_ Well Volume (liters): 805  
 Length of Water Column in well (ft): 13.41 Well Head Locked: Y:  N: \_\_\_\_\_ 3 x Well Volume (liters): 24.15  
 Diameter of well casing (inches): 2" Exterior Seal Good Y:  N: \_\_\_\_\_ Volume Purged (liters): 43  
 Purge Method: Peristaltic/ Submersible Bladder/Other: \_\_\_\_\_ Remarks: \_\_\_\_\_

### Water Sample Data

Sample ID: AIA15041398IAMW01 Type: ENV Date: 4-13-15 Time: 16:25 # Containers: 2  
 QC Sample ID: \_\_\_\_\_ Type: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ # Containers: \_\_\_\_\_  
 Sampling Personnel: J.M. W/K Sampling Method: Low flow grab  
 Remarks (color, odor, etc.): colorless/odorless

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
Stabilization Requirements		(± 0.5)	(± 2.0)	(± 10%)	(± 10% or <20)	(± 10%)	(± 10%)	(± 10)	
1605	0	32.59	Initial Depth to Water (Pre-pumping)						
1605					300ml/min				
1610									
1614	1.2	33.61	6.36	0.110	6.2	9.77	12.75	164	
1619	2.7		6.35	0.111	2.7	10.12	12.52	162	
1624	4.5		6.73	0.113	3.7	10.15	12.74	160	

### Well Volume Calculation

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5

Meter Model: U22

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SEALASKA ENVIRONMENTAL

### Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
18743 Front Street, NE, Suite 201  
Poulsbo, WA 98370

### Well Inspection, Purging, and Field Measurement Form

Contract Number: \_\_\_\_\_ Task Order: 01 Installation: JBLM Site Name: AJA

#### Well Data

Well ID: 98-IA-MW02 Measuring Point (MP): Top of Casing Rim Monument, Other: \_\_\_\_\_  
Total Well Depth (ft below MP): - Pooled Water in Well Head: Y: - N: ✓ Well Casing Volume (liters/ft): 0.6  
Depth to Water (ft below MP): 33.48 Inner Casing Straight and Clear: Y: ✓ N: - Well Volume (liters): 391  
Length of Water Column in well (ft): 6.52 Well Head Locked: Y: ✓ N: - 3 x Well Volume (liters): 11.73  
Diameter of well casing (inches): 2" Exterior Seal Good Y: ✓ N: - Volume Purged (liters): 7.0  
Purge Method: Peristaltic/Submersible Bladder/Other: \_\_\_\_\_ Remarks: \_\_\_\_\_

#### Water Sample Data

Sample ID: AJA15041398IAMW02 Type: Env Date: 4-13-15 Time: 1530 # Containers: 2  
QC Sample ID: \_\_\_\_\_ Type: - Date: - Time: - # Containers: -  
Sampling Personnel: JK TM Sampling Method: Low flow grab  
Remarks (color, odor, etc.): COLORLESS UNODOROUS

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
Stabilization Requirements		(± 0.5)	(± 2.0)	(± 10%)	(± 10% or <20)	(± 10%)	(± 10%)	(± 10)	
15:00	0	33.48							Initial Depth to Water (Pre-pumping)
15:05	1.4	CONNECTED TO FLOW CELL			280 u/m				
15:10	2.8	33.51	6.54	0.123	55	7.84	12.75	151	
15:15	4.2		6.50	0.121	12	8.18	10.36	148	
15:20	5.6		6.53	0.123	18	8.28	10.61	146	
15:25	7.0		6.51	0.122	19	7.94	10.57	145	

#### Well Volume Calculation

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5

Meter Model: V22

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# Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
18743 Front Street, NE, Suite 201  
Poulsbo, WA 98370

## Well Inspection, Purging, and Field Measurement Form

Contract Number: \_\_\_\_\_ Task Order: 01 Installation: JBLM Site Name: AIA

### Well Data

Well ID: 98-JA-MW03 Measuring Point (MP): Top of Casing Rim Monument, Other: \_\_\_\_\_  
 Total Well Depth (ft below MP): 78 Pooled Water in Well Head: Y: \_\_\_ N:  Well Casing Volume (liters/ft): 6  
 Depth to Water (ft below MP): 67.70 Inner Casing Straight and Clear: Y:  N: \_\_\_ Well Volume (liters): 618  
 Length of Water Column in well (ft): 10.3 Well Head Locked: Y:  N: \_\_\_ 3 x Well Volume (liters): 1854  
 Diameter of well casing (inches): 2" Exterior Seal Good Y:  N: \_\_\_ Volume Purged (liters): 14.7  
 Purge Method: Peristaltic/Submersible/Bladder/Other: \_\_\_\_\_ Remarks: \_\_\_\_\_

### Water Sample Data

Sample ID: AIA15041398IAMIW03 Type: FW Date: 04/13/15 Time: 9:55 # Containers: 2  
 QC Sample ID: AIA15041398IAMIW13 Type: Dup Date: 04/13/15 Time: 10:00 # Containers: 2  
 Sampling Personnel: WK, TM Sampling Method: Low flow grab  
 Remarks (color, odor, etc.): COLORLESS/ODORLESS

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
Stabilization Requirements		(± 0.5)	(± 2.0)	(± 10%)	(± 10% or <20)	(± 10%)	(± 10%)	(± 10)	
0900	0	67.70							<b>Initial Depth to Water (Pre-pumping)</b>
0912	START	PUMPING							Flow = 420 <sup>l</sup> / <sub>min</sub>
9:19									CONNECT FLOW CELL
9:28	2.1	67.70	6.14	0.124	3.7	9.34	13.44	134	
9:33	4.2	67.70	6.35	0.117	11.6	9.19	13.69	122	
9:38	6.3	67.70	6.43	0.111	24.7	8.88	14.70	122	
9:43	8.4	67.70	6.59	0.111	22.5	9.07	14.07	135	
9:48	10.5	67.70	6.50	0.109	22.9	8.88	14.39	121	
9:53	12.6	67.71	6.55	0.108	20.8	8.89	14.57	120	
10:00	14.7	67.71	6.52	0.104	22.0	8.81	14.38	121	

### Well Volume Calculation

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5

Meter Model: 122-

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# Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
18743 Front Street, NE, Suite 201  
Poulsbo, WA 98370

## Well Inspection, Purging, and Field Measurement Form

Contract Number: \_\_\_\_\_ Task Order: 01 Installation: JBLM Site Name: AIA

### Well Data

Well ID: 98-IA-MW/04 Measuring Point (MP): Top of Casing Rim Monument, Other: \_\_\_\_\_  
 Total Well Depth (ft below MP): 63 Pooled Water in Well Head: Y: \_\_\_ N: \_\_\_ Well Casing Volume (liters/ft): \_\_\_\_\_  
 Depth to Water (ft below MP): 57.26 Inner Casing Straight and Clear: Y: \_\_\_ N: \_\_\_ Well Volume (liters): \_\_\_\_\_  
 Length of Water Column in well (ft): \_\_\_\_\_ Well Head Locked: Y: \_\_\_ N: \_\_\_ 3 x Well Volume (liters): \_\_\_\_\_  
 Diameter of well casing (inches): \_\_\_\_\_ Exterior Seal Good Y: \_\_\_ N: \_\_\_ Volume Purged (liters): \_\_\_\_\_  
 Purge Method: Peristaltic/Submersible/Bladder/Other: \_\_\_\_\_ Remarks: \_\_\_\_\_

### Water Sample Data

Sample ID: AIA15041398IAMW04 Type: ENV Date: 4/13/2015 Time: 13:50 # Containers: 2  
 QC Sample ID: \_\_\_\_\_ Type: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ # Containers: \_\_\_\_\_  
 Sampling Personnel: TM, WK Sampling Method: Low flow grab  
 Remarks (color, odor, etc.): COLORED / ODDOROUS

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
	0								
									<b>Initial Depth to Water (Pre-pumping)</b>
13:21	0	51.26							
13:23		STARTED PUMP							
13:28		51.30			4.2				
13:30	3.0	51.30	6.60	0.096	9.5	9.55	12.54	157	
13:35	5.1	51.30	6.52	0.095	4.2	9.50	13.22	157	
13:40	7.2	51.30	6.50	0.095	1.6	9.5	13.82	132	
13:45	9.3	51.30	6.50	0.096	1.9	9.50	13.99	132	

### Well Volume Calculation

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5

Meter Model: U22

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Revision: Nov. 2014



# Sealaska Environmental Services

Marine Science Center, P.O. Box 869  
18743 Front Street, NE, Suite 201  
Poulsbo, WA 98370

## Well Inspection, Purging, and Field Measurement Form

Contract Number: \_\_\_\_\_ Task Order: 01 Installation: JBLM Site Name: AIA

### Well Data

Well ID: 98-IA-MW05 Measuring Point (MP): Top of Casing Rim Monument, Other: \_\_\_\_\_  
 Total Well Depth (ft below MP): 121.0 Pooled Water in Well Head: Y: \_\_\_ N:  Well Casing Volume (liters/ft): \_\_\_\_\_  
 Depth to Water (ft below MP): 112.63 Inner Casing Straight and Clear: Y:  N: \_\_\_ Well Volume (liters): \_\_\_\_\_  
 Length of Water Column in well (ft): 8.37 Well Head Locked: Y:  N: \_\_\_ 3 x Well Volume (liters): \_\_\_\_\_  
 Diameter of well casing (inches): 2 Exterior Seal Good Y:  N: \_\_\_ Volume Purged (liters): \_\_\_\_\_  
 Purge Method: Peristaltic Submersible Bladder/Other: \_\_\_\_\_ Remarks: \_\_\_\_\_

### Water Sample Data

Sample ID: AIA150413UBIAMWS Type: \_\_\_\_\_ Date: 4/13/2005 Time: 12:50 # Containers: 2  
 QC Sample ID: \_\_\_\_\_ Type: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ # Containers: \_\_\_\_\_  
 Sampling Personnel: WV, TM Sampling Method: Low flow grab  
 Remarks (color, odor, etc.): COLORLESS/ODORLESS

200

70

Time	Purge Vol. (liters)	Depth to Water (ft btoc)	pH	Spec. Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mv)	Notes
Stabilization Requirements		(± 0.5)	(± 2.0)	(± 10%)	(± 10% or <20)	(± 10%)	(± 10%)	(± 10)	
<u>112.6</u>	<u>0</u>	<u>112.63</u>	Initial Depth to Water (Pre-pumping)						
<u>12:23</u>		<u>112.63</u>	<u>6.13</u>	<u>0.082</u>	<u>13.6</u>	<u>9.5</u>	<u>11.25</u>	<u>123</u>	
<u>12:27</u>	<u>1.0</u>	<u>112.99</u>	<u>6.13</u>	<u>0.082</u>	<u>10.1</u>	<u>9.52</u>	<u>12.74</u>	<u>105</u>	
<u>12:32</u>	<u>2.25</u>	<u>113.19</u>	<u>6.35</u>	<u>0.085</u>	<u>11</u>	<u>9.48</u>	<u>15.05</u>	<u>106</u>	
<u>12:37</u>	<u>3.5</u>	<u>113.19</u>	<u>6.40</u>	<u>0.086</u>	<u>5</u>	<u>9.57</u>	<u>15.74</u>	<u>97</u>	
<u>12:42</u>	<u>4.75</u>	<u>113.30</u>	<u>6.56</u>	<u>0.087</u>	<u>5</u>	<u>9.63</u>	<u>14.71</u>	<u>95</u>	
<u>12:47</u>	<u>6.0</u>								
<u>12:52</u>	<u>7.25</u>								

### Well Volume Calculation

Well volume (liters) = [Well casing volume (liters/ft)] x [Length of water column (ft)]

Well casing diameter (in) → Well casing volume (liters/ft)

1.25" → 0.3    1.5" → 0.4    2" → 0.6    2.5" → 1    3" → 1.4    3.5" → 2    4" → 2.5    6" → 5.5

Meter Model: U22

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Revision: Nov. 2014

# SEALASKA

## DAILY SAFETY BRIEFING FORM

Date: 4-13-15 Project Name/Location: TC CI JBLM

Shift/Department: Field Person Conducting Briefing: V. Sunrise Patterson

Weather: CLOUDY W/ 80% CHANCE OF LIGHT RAIN IN THE AFTERNOON. HIGH = 54°F  
WINDS SSW @ 10-15 MPH

### 1. DAILY ACTIVITIES/TASKS

1. MOBILIZE
2. GIL SAMPLES
3. DEMOBILIZE
4.
5.

### 2. AWARENESS (e.g., special HS concerns, recent incidents, etc.):

Thermal stress; Vehicle operations; Slips, trips & falls;

PROPER PPE - MODIFIED LEVEL D, PROPER LIFTING (GENERATOR), CUTS/SCRAPES, PINCH POINTS, HYDRATION, CAUTION HIKING TO THE SHEEPS, EMERGENCY EQUIPMENT, MIXING FUEL, FIELD WALKER SAFETY.

### 3. OTHER ISSUES (attendee comments, etc.):

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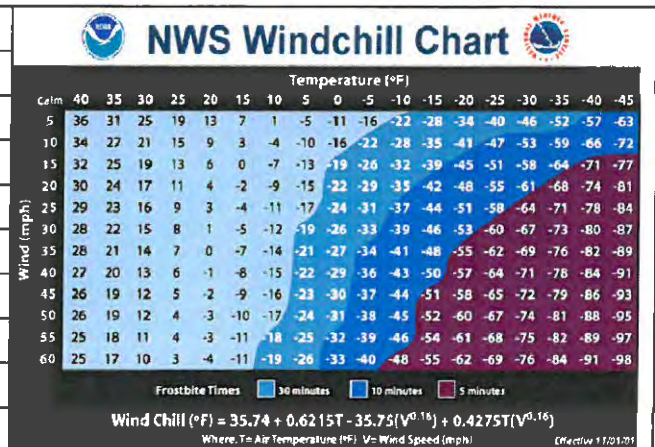
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### 4. ATTENDEES (Print Name):

1. <u>Will Kashe</u>
2. <u>TOM MALAMALIA</u>
3.
4.
5.
6.
7.
8.
9.
10.



# SEALASKA

## DAILY SAFETY BRIEFING FORM

Date: 4-14-15 Project Name/Location: AIA GWM

Shift/Department: Field Person Conducting Briefing: V. Sunrise Patterson

Weather: MOSTLY SUNNY COOL IN A.M. POSSIBLE SHOWERS IN P.M.  
HIGH 54°F WINDS 10-15MPH SW

### 1. DAILY ACTIVITIES/TASKS

1. <u>GW MONITORING</u>
2. <u>MUB</u>
3. <u>DEMOB</u>
4.
5.

### 2. AWARENESS (e.g., special HS concerns, recent incidents, etc.):

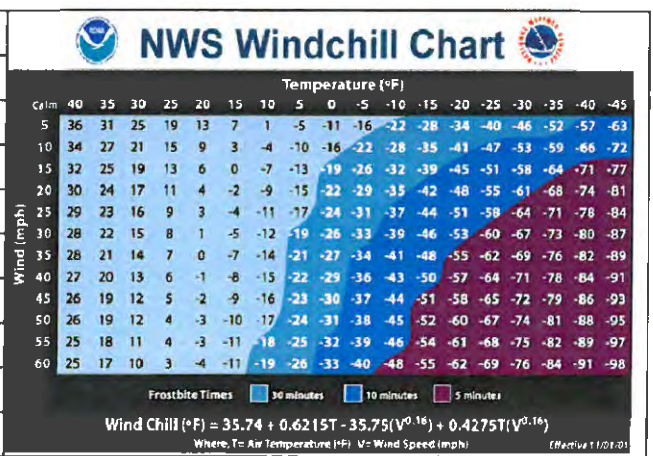
Thermal stress; Vehicle operations; Slips, trips & falls;

PROPER PPE LEVEL D. HIKING HAZARDS. PITCH POINTS. PROPER ERGONOMICS

### 3. OTHER ISSUES (attendee comments, etc.):

### 4. ATTENDEES (Print Name):

1. <u>WILL KAAGE</u>
2. <u>TOM MALANAKIL</u>
3.
4.
5.
6.
7.
8.
9.
10.



# Tetra Tech, Inc. Data Review Report

Project Name: JBLM AIA/TO 01  
Project Number: K1503815  
Collection Date: 4/13/15 – 4/14/15  
Laboratory: ALS Environmental, Kelso, WA

## DATA REVIEW

- Ten water samples and one field duplicate were collected and analyzed for explosives by EPA method SW-846 8330. A review was performed of the following parameters as applicable:
  - Chain-of-custody (C-O-C) documentation
  - Holding time compliance
  - Blank sample data
  - Spike sample recovery
  - Duplicate samples
  - Surrogate recoveries

### Sample Identification:

AIA15041398IAMW01  
AIA15041398IAMW02  
AIA15041398IAMW03  
AIA15041398IAMW13  
AIA15041398IAMW04  
AIA15041398IAMW05  
AIA150414AIASP01  
AIA150413AIASP02  
AIA150413AIASP04  
AIA150413AIASP05  
AIA150414FHDS

## Review Summary

### 1. Holding Time

All holding times were met. The coolers arrived at acceptable temperature levels. Sample AIA150413SP02 was marked incorrectly on the sample bottle. It was identified and correctly labeled at the lab by cross referencing the collection time on the chain of custody. All other chain of custody documentation and sample labels were in order.

### 2. Matrix Spikes

Sample AIA150414FHDS was selected as the matrix spike/matrix spike duplicate for quality control purposes. All Matrix Spike and Matrix Spike Duplicate Sample recoveries were within acceptable limits of control. Relative percent difference precision for Tetryl and 1,3,5-Trinitrobenzene were outside recommended limits of control. The sample was non-detect for both compounds and no action was required. All other MS/MSD RPD's were within control limits.

### 3. Blanks

The method blank was free of contamination.

### 4. Duplicates

Sample AIA150413IAMW13 was collected as a field duplicate for sample AIA15041398IAMW03. The field duplicate precision for the detections of RDX (0.68 and 0.69 respectively) were within acceptable limits of control.

### 5. Laboratory Control Samples

All Laboratory Control Sample recoveries were within acceptable limits of control.

### 6. Surrogates

The surrogate recovery for sample AIA150414AIASP01 was outside of the recommended limits of control high. The result for RDX in the sample (0.21) may be considered biased high. All other surrogate recoveries were within acceptable limits of control.

### 7. Comments

Manual integration was performed to correct the automated data program integration. The manual integration was performed in accordance with NELAP and DOD QA/QC protocol. All data are complete and usable. The detection limits for HMX was elevated in several samples due to matrix interference.





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May 26, 2015

**Analytical Report for Service Request No: K1503815**

Scott Elkind  
Sealaska Environmental Services, LLC  
18743 Front Street NE  
P.O. Box 869  
Poulsbo, WA 98370

**RE: JBLM AIA**

Dear Scott,

Enclosed are the results of the sample(s) submitted to our laboratory April 14, 2015  
For your reference, these analyses have been assigned our service request number **K1503815**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [gregory.salata@alsglobal.com](mailto:gregory.salata@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Gregory Salata, Ph.D.  
Client Services  
Manager



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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEC UST	<a href="http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx">http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L14-51
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	Not available	-
Idaho DHW	<a href="http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx">http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L14-50
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	03016
Maine DHS	Not available	WA01276
Michigan DEQ	<a href="http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html">http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html</a>	9949
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Montana DPHHS	<a href="http://www.dphhs.mt.gov/publichealth/">http://www.dphhs.mt.gov/publichealth/</a>	CERT0047
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	WA005
North Carolina DWQ	<a href="http://www.dwqlab.org/">http://www.dwqlab.org/</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/envserv/">http://www.scdhec.gov/environment/envserv/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wisconsin DNR	<a href="http://dnr.wi.gov/">http://dnr.wi.gov/</a>	998386840
Wyoming (EPA Region 8)	<a href="http://www.epa.gov/region8/water/dwhome/wyomingdi.html">http://www.epa.gov/region8/water/dwhome/wyomingdi.html</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



## Case Narrative

**ALS Environmental—Kelso Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)

## ALS ENVIRONMENTAL

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request No.:** K1503815  
**Date Received:** 04/14/15

### Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

Eleven water samples were received for analysis at ALS Environmental on 04/14/15. The samples were received in good condition and consistent with the accompanying chain of custody form, except where noted on the cooler receipt and preservation form included in this report. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

### Explosives by EPA Method 8330

#### **Calibration Verification Exceptions:**

The lower control criterion was exceeded for TETRYL in Continuing Calibration Verification (CCV) LC10\0423000221.D. The analyte in question was not reported for the field samples analyzed in this sequence. The samples were reported from a sequence with TETRYL in control. No further corrective action was required.

#### **Surrogate Exceptions:**

The upper control criterion was exceeded by 6% for the surrogate 1-Chloro-3-nitrobenzene in sample AIA150414AIASP01. The error associated with elevated recovery equates to a potential slight bias. The result was flagged to indicate the issue. No further corrective action was taken.

#### **Relative Percent Difference Exceptions:**

The Relative Percent Difference (RPD) for 1,3,5-Trinitrobenzene and TETRYL in the replicate Matrix Spikes (MS/DMS) KWG1503332-1 and KWG1503332-2 analyses of AIA150414FHDS were outside control criteria. Since the compounds in question were not detected in the parent sample the result was not flagged as per the DOD QAPP. No further corrective action was appropriate.

#### **Elevated Detection Limits:**

The detection limits was elevated for HMX in several samples. The chromatogram indicated the presence of non-target background components. The results were flagged to indicate the matrix interferences.

Approved by \_\_\_\_\_

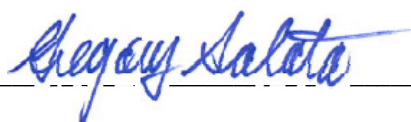


**Sample Notes and Discussion:**

Manual integration of one or more chromatographic peaks was required to correct the integration performed by the automated data processing program. The manual integration was performed in accordance with ALS policy, which is consistent with the National Environmental Laboratory Accreditation Program (NELAP), Department of Defense (DOD), and other certifying agencies. The analytes that required manual integrations are identified on each sample report contained in this data package.

No other anomalies associated with the analysis of these samples were observed.

Approved by \_\_\_\_\_







## Chain of Custody

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PROJECT NAME	JBLM AIA
PROJECT NUMBER	TO 001
PROJECT MANAGER	SCOTT ELKIND
COMPANY NAME	SEALASKA ENVIRONMENTAL
ADDRESS	18743 FRONT ST. NE STE. 201
CITY/STATE/ZIP	POULSBORO, WA 98370
E-MAIL ADDRESS	SCOTT.ELKIND@SEALASKA.COM
PHONE #	360 930 3187
SAMPLER'S SIGNATURE	<i>[Signature]</i>

NUMBER OF CONTAINERS

- Semivolatile Organics by GC/MS  
625  8270  8270LL  SIM PAH
- Volatile Organics  
624  8260
- Hydrocarbons (\*see below)  
Gas  Diesel  Oil
- 1664 HEM  1664 SGT
- PCBs
- Aroclors
- Pesticides/Herbicides  
608  8081
- Chlorophenolics  
Tri  814  8151
- Metals, Total or Dissolved  
(See List below) PCP
- Cyanide
- (circle) pH, Cond., Cl, SO<sub>4</sub>, PO<sub>4</sub>, F, NO<sub>2</sub>, NO<sub>3</sub>, BOD, TSS, TDS, Turb.  
(circle) NH<sub>3</sub>-N, COD, TKN, TOC, TOX 9020  AOX 1650  506
- Hex-Chrom
- Alkalinity  CO<sub>3</sub>  HCO<sub>3</sub>
- Dioxins/Furans  
1613  8290
- Dissolved Gases  
RSK 175  Methane  CO<sub>2</sub>
- EPA SW341 - 8330  
METHANES/ETHANES

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	2	2	2	2	2	2	2	2	2	2	2	2	2	REMARKS
98 AIA15041398IAMW01	4-13-15	1625		GW	2													
AIA15041398IAMW02	4-13-15	1530		GW	2													
AIA15041398IAMW03	4-13-15	0955		GW	2													
AIA15041398IAMW13	4-13-15	1000		GW	2													
AIA15041398IAMW04	4-13-15	1350		GW	2													
AIA15041398IAMW05	4-13-15	1250		GW	2													
AIA150414AIASPO1	4-13-15	0835		GW	2													
AIA150413AIASPO2	4-13-15	1415		GW	2													
AIA150413AIASPO4	4-13-15	1330		GW	2													
AIA150413AIASPO5	4-13-15	1130		GW	2													

<b>REPORT REQUIREMENTS</b> ___ I. Routine Report: Method Blank, Surrogate, as required ___ II. Report Dup., MS, MSD as required ___ III. CLP Like Summary (no raw data) ___ IV. Data Validation Report ___ V. EDD	<b>INVOICE INFORMATION</b> P.O. # <u>PO-01281A5</u> Bill To: _____	Circle which metals are to be analyzed: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg
	<b>TURNAROUND REQUIREMENTS</b> ___ 24 hr. ___ 48 hr. ___ 5 day <input checked="" type="checkbox"/> Standard (15 working days) ___ Provide FAX Results Requested Report Date _____	<b>*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)</b> <b>SPECIAL INSTRUCTIONS/COMMENTS:</b> <u>* AS PER CONTRACT</u> <input type="checkbox"/> Sample Shipment contains USDA regulated soil samples (check box if applicable)

<b>RELINQUISHED BY:</b> <i>[Signature]</i> 4-14-15 1000 Signature Date/Time Printed Name <u>WILL KACKE</u> Firm <u>SEALASKA ENV.</u>	<b>RECEIVED BY:</b> Signature Date/Time Printed Name <u>MC DELIVERY</u> Firm	<b>RELINQUISHED BY:</b> Signature Date/Time Printed Name <u>MC DELIVERY</u> Firm	<b>RECEIVED BY:</b> <i>[Signature]</i> 4/14/15 1130 Signature Date/Time Printed Name <u>Les Kennedy</u> Firm <u>ALS</u>
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PROJECT NAME	JBLM AIA			
PROJECT NUMBER	TO 01			
PROJECT MANAGER	SCOTT ELKIND			
COMPANY NAME	SEALASKA ENVIRONMENTAL			
ADDRESS	18743 FRONT ST NE STE 201			
CITY/STATE/ZIP	POULSBORO, WA 98370			
E-MAIL ADDRESS	SCOTT.ELKIND@SEALASKA.COM			
PHONE #	360 930-3187 FAX #			
SAMPLER'S SIGNATURE	<i>Will Kasper</i>			

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatiles Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/> SIM PAH <input type="checkbox"/>	Volatile Organics 624 <input type="checkbox"/> 8260 <input type="checkbox"/>	Hydrocarbons (*see below) Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Oil <input type="checkbox"/>	Oil & Grease/TRPH 1664 HEM <input type="checkbox"/> 1664 SGT <input type="checkbox"/>	Aroclors <input type="checkbox"/> Congeners <input type="checkbox"/>	Pesticides/Herbicides 608 <input type="checkbox"/> 8081 <input type="checkbox"/>	Chlorophenolics Tri <input type="checkbox"/> 8141 <input type="checkbox"/>	Metals, Total or Dissolved (See List below) Tetra <input type="checkbox"/> 8151M <input type="checkbox"/> PCP <input type="checkbox"/>	Cyanide <input type="checkbox"/>	(circle) pH, Cond., Cl, SO <sub>4</sub> , PO <sub>4</sub> , F, NO <sub>2</sub> , NO <sub>3</sub> , BOD, TSS, TDS, Turb. DOC, NH <sub>3</sub> -N, COD, TKN, TOC, TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>	Hex-Chrom <input type="checkbox"/>	Alkalinity <input type="checkbox"/> CO <sub>3</sub> <input type="checkbox"/> HCO <sub>3</sub> <input type="checkbox"/>	Dioxins/Furans 1613 <input type="checkbox"/> 8290 <input type="checkbox"/>	Dissolved Gases RSK 175 <input type="checkbox"/> Methane <input type="checkbox"/> Ethane <input type="checkbox"/>	CO <sub>2</sub> <input type="checkbox"/>	REMARKS	
AIA150414FHDS	4-14-15	0820	GW	6	6																	MS/MSD

<b>REPORT REQUIREMENTS</b> ___ I. Routine Report: Method Blank, Surrogate, as required ___ II. Report Dup., MS, MSD as required ___ III. CLP Like Summary (no raw data) ___ IV. Data Validation Report ___ V. EDD	<b>INVOICE INFORMATION</b> P.O. # <u>PO-01281AT</u> Bill To: _____	Circle which metals are to be analyzed: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
	<b>TURNAROUND REQUIREMENTS</b> ___ 24 hr. ___ 48 hr. ___ 5 day <input checked="" type="checkbox"/> Standard (15 working days) ___ Provide FAX Results Requested Report Date _____	<b>*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)</b> <b>SPECIAL INSTRUCTIONS/COMMENTS:</b> <u>*AS PER CONTRACT</u> <input type="checkbox"/> Sample Shipment contains USDA regulated soil samples (check box if applicable)

<b>RELINQUISHED BY:</b> <i>Will Kasper</i> Signature Will Kasper Printed Name 4-14-15 1000 Date/Time SEALASKA ENV. Firm	<b>RECEIVED BY:</b> _____ Signature _____ Printed Name _____ Date/Time MC DELIVER Firm	<b>RELINQUISHED BY:</b> _____ Signature _____ Printed Name _____ Date/Time MC DELIVER Firm	<b>RECEIVED BY:</b> <i>Les Kennedy</i> Signature Les Kennedy Printed Name 4/14/15 1130 Date/Time ALS Firm
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PC Greg

### Cooler Receipt and Preservation Form

Client / Project: Sealaska Service Request K15 03815

Received: 4/14/15 Opened: 4/14/15 By: UC Unloaded: 4/14/15 By: UC

- 1. Samples were received via?  Mail  Fed Ex  UPS  DHL  PDX  Courier  Hand Delivered
- 2. Samples were received in: (circle)  Cooler  Box  Envelope  Other NA
- 3. Were custody seals on coolers?  NA  Y  N If yes, how many and where? 1 front 1 back  
 If present, were custody seals intact?  Y  N If present, were they signed and dated?  Y  N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number	NA	Filed
2.1	1.9	4.7	4.5	-0.2	336	3 of 3			
3.6	3.6	1.2	1.2	0	337	2 of 3			
2.1	2.1	1.0	1.0	0	348	1 of 3			

- 4. Packing material:  Inserts  Baggies  Bubble Wrap  Gel Packs  Wet Ice  Dry Ice  Sleeves
- 5. Were custody papers properly filled out (ink, signed, etc.)?  NA  Y  N
- 6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.*  NA  Y  N
- 7. Were all sample labels complete (i.e analysis, preservation, etc.)?  NA  Y  N
- 8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.*  NA  Y  N
- 9. Were appropriate bottles/containers and volumes received for the tests indicated?  NA  Y  N
- 10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below*  NA  Y  N
- 11. Were VOA vials received without headspace? *Indicate in the table below.*  NA  Y  N
- 12. Was C12/Res negative?  NA  Y  N

Sample ID on Bottle	Sample ID on COC	Identified by:
AIA150413A1ASP04	AIA150413A1ASP02	Placed by sample time 1415

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# Nitroaromatics and Nitramines (Explosives)

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577-7222 Fax (360)636-1068  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815

**Cover Page - Organic Analysis Data Package  
 Nitroaromatics and Nitramines (Explosives)**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Collected</b>	<b>Date Received</b>
AIA15041398IAMW01	K1503815-001	04/13/2015	04/14/2015
AIA15041398IAMW02	K1503815-002	04/13/2015	04/14/2015
AIA15041398IAMW03	K1503815-003	04/13/2015	04/14/2015
AIA15041398IAMW13	K1503815-004	04/13/2015	04/14/2015
AIA15041398IAMW04	K1503815-005	04/13/2015	04/14/2015
AIA15041398IAMW05	K1503815-006	04/13/2015	04/14/2015
AIA150414AIASP01	K1503815-007	04/14/2015	04/14/2015
AIA150413AIASP02	K1503815-008	04/13/2015	04/14/2015
AIA150413AIASP04	K1503815-009	04/13/2015	04/14/2015
AIA150413AIASP05	K1503815-010	04/13/2015	04/14/2015
AIA150414FHDS	K1503815-011	04/14/2015	04/14/2015
AIA150414FHDSMS	KWG1503332-1	04/14/2015	04/14/2015
AIA150414FHDSDMS	KWG1503332-2	04/14/2015	04/14/2015

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA15041398IAMW01  
**Lab Code:** K1503815-001  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	Ui	0.66	0.66	0.66	1	04/20/15	04/24/15	KWG1503332	
RDX	<b>0.16</b>	C	0.098	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.098	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.098	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/24/15	KWG1503332	
Nitrobenzene	ND	U	0.098	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.098	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.098	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.098	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.098	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.098	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.98	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	86	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA15041398IAMW02  
**Lab Code:** K1503815-002  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	Ui	0.73	0.73	0.73	1	04/20/15	04/24/15	KWG1503332	
RDX	<b>0.38</b>	C	0.097	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.097	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/24/15	KWG1503332	
Nitrobenzene	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.097	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.097	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.097	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.097	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.097	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.97	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	90	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_



Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA15041398IAMW03  
**Lab Code:** K1503815-003  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	Ui	1.3	1.3	1.3	1	04/20/15	04/24/15	KWG1503332	
RDX	<b>0.68</b>	C	0.098	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.098	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.098	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/24/15	KWG1503332	
Nitrobenzene	ND	U	0.098	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.098	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.098	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.098	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.098	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.098	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.98	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	92	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA15041398IAMW13  
**Lab Code:** K1503815-004  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	Ui	1.3	1.3	1.3	1	04/20/15	04/24/15	KWG1503332	
RDX	<b>0.69</b>	C	0.097	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.097	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/24/15	KWG1503332	
Nitrobenzene	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.097	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.097	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.097	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.097	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.097	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.97	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	93	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA15041398IAMW04  
**Lab Code:** K1503815-005  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	Ui	1.3	1.3	1.3	1	04/20/15	04/24/15	KWG1503332	
RDX	0.37	C	0.097	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.097	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/24/15	KWG1503332	
Nitrobenzene	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.097	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.097	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.097	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.097	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.097	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.97	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	98	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA15041398IAMW05  
**Lab Code:** K1503815-006  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.097	0.040	0.010	1	04/20/15	04/24/15	KWG1503332	
RDX	ND	U	0.097	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.097	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/24/15	KWG1503332	
Nitrobenzene	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.097	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.097	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.097	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.097	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.097	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.97	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	88	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/14/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA150414AIASP01  
**Lab Code:** K1503815-007  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	Ui	0.61	0.61	0.61	1	04/20/15	04/24/15	KWG1503332	
RDX	<b>0.21</b>	C	0.099	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.099	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.099	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/24/15	KWG1503332	
Nitrobenzene	ND	U	0.099	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.099	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.099	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.099	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.099	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.099	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.99	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.50	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	104	23-98	04/24/15	Outside Control Limits

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA150413AIASP02  
**Lab Code:** K1503815-008  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.097	0.040	0.010	1	04/20/15	04/24/15	KWG1503332	
RDX	<b>0.56</b>	C	0.097	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.097	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/24/15	KWG1503332	
Nitrobenzene	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.097	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.097	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.097	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.097	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.097	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.97	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	87	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA150413AIASP04  
**Lab Code:** K1503815-009  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.097	0.040	0.010	1	04/20/15	04/24/15	KWG1503332	
RDX	<b>0.38</b>	J	0.097	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.097	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	05/04/15	KWG1503332	
Nitrobenzene	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.097	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.097	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.097	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.097	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.097	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.97	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	95	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/13/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA150413AIASP05  
**Lab Code:** K1503815-010  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.097	0.040	0.010	1	04/20/15	04/24/15	KWG1503332	
RDX	ND	U	0.097	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.097	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	05/04/15	KWG1503332	
Nitrobenzene	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.097	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.097	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.097	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.097	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.097	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.97	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	98	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_



Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** 04/14/2015  
**Date Received:** 04/14/2015

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA150414FHDS  
**Lab Code:** K1503815-011  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.097	0.040	0.010	1	04/20/15	04/24/15	KWG1503332	
RDX	<b>0.078</b>	J	0.097	0.040	0.017	1	04/20/15	04/24/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/24/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.097	0.020	0.0085	1	04/20/15	04/24/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	05/04/15	KWG1503332	
Nitrobenzene	ND	U	0.097	0.040	0.013	1	04/20/15	04/24/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.097	0.040	0.016	1	04/20/15	04/24/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.097	0.020	0.0089	1	04/20/15	04/24/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.097	0.040	0.024	1	04/20/15	04/24/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/24/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.097	0.020	0.0091	1	04/20/15	04/24/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/24/15	KWG1503332	
4-Nitrotoluene	ND	U	0.097	0.040	0.0060	1	04/20/15	04/24/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/24/15	KWG1503332	
Nitroglycerin	ND	U	0.97	0.40	0.39	1	04/20/15	04/24/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.49	0.40	0.18	1	04/20/15	04/24/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	93	23-98	04/24/15	Acceptable

**Comments:** \_\_\_\_\_

Analytical Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Collected:** NA  
**Date Received:** NA

**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** Method Blank  
**Lab Code:** KWG1503332-4  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.10	0.040	0.010	1	04/20/15	04/23/15	KWG1503332	
RDX	ND	U	0.10	0.040	0.017	1	04/20/15	04/23/15	KWG1503332	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.050	1	04/20/15	04/23/15	KWG1503332	
1,3-Dinitrobenzene	ND	U	0.10	0.020	0.0085	1	04/20/15	04/23/15	KWG1503332	
3,5-Dinitroaniline	ND	U	0.10	0.040	0.013	1	04/20/15	04/23/15	KWG1503332	
TETRYL	ND	U	0.10	0.10	0.042	1	04/20/15	04/23/15	KWG1503332	
Nitrobenzene	ND	U	0.10	0.040	0.013	1	04/20/15	04/23/15	KWG1503332	
4-Amino-2,6-dinitrotoluene	ND	U	0.10	0.040	0.016	1	04/20/15	04/23/15	KWG1503332	
2-Amino-4,6-dinitrotoluene	ND	U	0.10	0.020	0.0089	1	04/20/15	04/23/15	KWG1503332	
2,4,6-Trinitrotoluene	ND	U	0.10	0.040	0.024	1	04/20/15	04/23/15	KWG1503332	
2,6-Dinitrotoluene	ND	U	0.20	0.10	0.054	1	04/20/15	04/23/15	KWG1503332	
2,4-Dinitrotoluene	ND	U	0.10	0.020	0.0091	1	04/20/15	04/23/15	KWG1503332	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	04/20/15	04/23/15	KWG1503332	
4-Nitrotoluene	ND	U	0.10	0.040	0.0060	1	04/20/15	04/23/15	KWG1503332	
3-Nitrotoluene	ND	U	0.10	0.10	0.0064	1	04/20/15	04/23/15	KWG1503332	
Nitroglycerin	ND	U	1.0	0.40	0.39	1	04/20/15	04/23/15	KWG1503332	
Pentaerythritol Tetranitrate	ND	U	0.50	0.40	0.18	1	04/20/15	04/23/15	KWG1503332	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	89	23-98	04/23/15	Acceptable

**Comments:** \_\_\_\_\_

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815

**Surrogate Recovery Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** Percent  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
AIA15041398IAMW01	K1503815-001	86
AIA15041398IAMW02	K1503815-002	90
AIA15041398IAMW03	K1503815-003	92
AIA15041398IAMW13	K1503815-004	93
AIA15041398IAMW04	K1503815-005	98
AIA15041398IAMW05	K1503815-006	88
AIA150414AIASP01	K1503815-007	104 *
AIA150413AIASP02	K1503815-008	87
AIA150413AIASP04	K1503815-009	95
AIA150413AIASP05	K1503815-010	98
AIA150414FHDS	K1503815-011	93
Method Blank	KWG1503332-4	89
AIA150414FHDSMS	KWG1503332-1	87
AIA150414FHDSMS	KWG1503332-2	90
Lab Control Sample	KWG1503332-3	82

**Surrogate Recovery Control Limits (%)**

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Sur1 = 1-Chloro-3-nitrobenzene 23-98

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Results flagged with an asterisk (\*) indicate values outside control criteria.  
 Results flagged with a pound (#) indicate the control criteria is not applicable.

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Extracted:** 04/20/2015  
**Date Analyzed:** 04/24/2015 - 05/06/2015

**Matrix Spike/Duplicate Matrix Spike Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** AIA150414FHDS  
**Lab Code:** K1503815-011  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1503332

Analyte Name	Sample Result	AIA150414FHDSMS KWG1503332-1 Matrix Spike			AIA150414FHDSMS KWG1503332-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
HMX	ND	7.49	7.69	97	7.45	7.69	97	11-147	1	20
RDX	0.078	7.49	7.69	96	7.71	7.69	99	10-142	3	20
1,3,5-Trinitrobenzene	ND	3.78	7.69	49	5.12	7.69	67	16-137	30 *	20
1,3-Dinitrobenzene	ND	7.08	7.69	92	7.27	7.69	94	26-125	3	20
3,5-Dinitroaniline	ND	7.15	7.69	93	7.26	7.69	94	30-133	2	20
TETRYL	ND	2.51	7.69	33	4.26	7.69	55	29-123	52 *	20
Nitrobenzene	ND	6.60	7.69	86	6.98	7.69	91	10-116	5	20
4-Amino-2,6-dinitrotoluene	ND	6.90	7.69	90	7.09	7.69	92	55-117	3	20
2-Amino-4,6-dinitrotoluene	ND	7.32	7.69	95	7.38	7.69	96	54-116	1	20
2,4,6-Trinitrotoluene	ND	6.94	7.69	90	7.17	7.69	93	47-118	3	20
2,6-Dinitrotoluene	ND	7.13	7.69	93	7.41	7.69	96	40-108	4	20
2,4-Dinitrotoluene	ND	6.75	7.69	88	6.82	7.69	89	50-111	1	20
2-Nitrotoluene	ND	6.44	7.69	84	6.69	7.69	87	12-110	4	20
4-Nitrotoluene	ND	6.42	7.69	83	6.69	7.69	87	16-113	4	20
3-Nitrotoluene	ND	6.40	7.69	83	6.65	7.69	86	13-109	4	20
Nitroglycerin	ND	6.58	7.69	85	6.75	7.69	88	15-136	3	20
Pentaerythritol Tetranitrate	ND	6.76	7.69	88	6.95	7.69	90	66-103	3	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Extracted:** 04/20/2015  
**Date Analyzed:** 04/23/2015

**Lab Control Spike Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1503332

Lab Control Sample  
 KWG1503332-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
HMX	8.18	8.00	102	11-147
RDX	7.66	8.00	96	10-142
1,3,5-Trinitrobenzene	2.11	8.00	26	16-137
1,3-Dinitrobenzene	7.17	8.00	90	26-125
3,5-Dinitroaniline	7.13	8.00	89	30-133
TETRYL	3.67	8.00	46	29-123
Nitrobenzene	6.68	8.00	83	10-116
4-Amino-2,6-dinitrotoluene	6.81	8.00	85	55-117
2-Amino-4,6-dinitrotoluene	7.27	8.00	91	54-116
2,4,6-Trinitrotoluene	6.87	8.00	86	47-118
2,6-Dinitrotoluene	6.99	8.00	87	40-108
2,4-Dinitrotoluene	6.88	8.00	86	50-111
2-Nitrotoluene	6.58	8.00	82	12-110
4-Nitrotoluene	6.49	8.00	81	16-113
3-Nitrotoluene	6.47	8.00	81	13-109
Nitroglycerin	6.71	8.00	84	15-136
Pentaerythritol Tetranitrate	6.79	8.00	85	66-103

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Extracted:** 04/20/2015  
**Date Analyzed:** 04/23/2015  
**Time Analyzed:** 22:41

**Method Blank Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** Method Blank  
**Lab Code:** KWG1503332-4  
**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Instrument ID:** LC10  
**File ID:** J:\LC10\DATA\042315X\210\0423000204.D  
**Level:** Low  
**Extraction Lot:** KWG1503332

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1503332-3	J:\LC10\DATA\042315X\210\0423000205.D	04/23/15	23:52
AIA15041398IAMW01	K1503815-001	J:\LC10\DATA\042315X\210\0423000206.D	04/24/15	01:02
AIA15041398IAMW02	K1503815-002	J:\LC10\DATA\042315X\210\0423000207.D	04/24/15	02:13
AIA15041398IAMW03	K1503815-003	J:\LC10\DATA\042315X\210\0423000208.D	04/24/15	03:24
AIA15041398IAMW13	K1503815-004	J:\LC10\DATA\042315X\210\0423000209.D	04/24/15	04:35
AIA15041398IAMW04	K1503815-005	J:\LC10\DATA\042315X\210\0423000210.D	04/24/15	05:45
AIA15041398IAMW05	K1503815-006	J:\LC10\DATA\042315X\210\0423000211.D	04/24/15	06:56
AIA150414AIASP01	K1503815-007	J:\LC10\DATA\042315X\210\0423000212.D	04/24/15	08:07
AIA150413AIASP02	K1503815-008	J:\LC10\DATA\042315X\210\0423000213.D	04/24/15	09:18
AIA150413AIASP04	K1503815-009	J:\LC10\DATA\042315X\210\0423000216.D	04/24/15	12:50
AIA150413AIASP05	K1503815-010	J:\LC10\DATA\042315X\210\0423000217.D	04/24/15	14:01
AIA150414FHDS	K1503815-011	J:\LC10\DATA\042315X\210\0423000218.D	04/24/15	15:12
AIA150414FHDSMS	KWG1503332-1	J:\LC10\DATA\042315X\210\0423000219.D	04/24/15	16:22
AIA150414FHDSMS	KWG1503332-2	J:\LC10\DATA\042315X\210\0423000220.D	04/24/15	17:33

QA/QC Report

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Extracted:** 04/20/2015  
**Date Analyzed:** 04/23/2015  
**Time Analyzed:** 22:41

**Method Blank Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** Method Blank **Instrument ID:** LC10  
**Lab Code:** KWG1503332-4 **File ID:** J:\LC10\DATA\042315X\254\0423000204.D  
**Extraction Method:** METHOD **Level:** Low  
**Analysis Method:** 8330B **Extraction Lot:** KWG1503332

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1503332-3	J:\LC10\DATA\042315X\254\0423000205.D	04/23/15	23:52
AIA15041398IAMW01	K1503815-001	J:\LC10\DATA\042315X\254\0423000206.D	04/24/15	01:02
AIA15041398IAMW02	K1503815-002	J:\LC10\DATA\042315X\254\0423000207.D	04/24/15	02:13
AIA15041398IAMW03	K1503815-003	J:\LC10\DATA\042315X\254\0423000208.D	04/24/15	03:24
AIA15041398IAMW13	K1503815-004	J:\LC10\DATA\042315X\254\0423000209.D	04/24/15	04:35
AIA15041398IAMW04	K1503815-005	J:\LC10\DATA\042315X\254\0423000210.D	04/24/15	05:45
AIA15041398IAMW05	K1503815-006	J:\LC10\DATA\042315X\254\0423000211.D	04/24/15	06:56
AIA150414AIASP01	K1503815-007	J:\LC10\DATA\042315X\254\0423000212.D	04/24/15	08:07
AIA150413AIASP02	K1503815-008	J:\LC10\DATA\042315X\254\0423000213.D	04/24/15	09:18
AIA150413AIASP04	K1503815-009	J:\LC10\DATA\042315X\254\0423000216.D	04/24/15	12:50
AIA150413AIASP05	K1503815-010	J:\LC10\DATA\042315X\254\0423000217.D	04/24/15	14:01
AIA150414FHDS	K1503815-011	J:\LC10\DATA\042315X\254\0423000218.D	04/24/15	15:12
AIA150414FHDSMS	KWG1503332-1	J:\LC10\DATA\042315X\254\0423000219.D	04/24/15	16:22
AIA150414FHDSMS	KWG1503332-2	J:\LC10\DATA\042315X\254\0423000220.D	04/24/15	17:33
AIA150413AIASP04	K1503815-009	J:\LC10\DATA\050415X\254\0504000106.D	05/04/15	13:19
AIA150413AIASP05	K1503815-010	J:\LC10\DATA\050415X\254\0504000108.D	05/04/15	14:42
AIA150414FHDS	K1503815-011	J:\LC10\DATA\050415X\254\0504000110.D	05/04/15	16:06
AIA150414FHDSMS	KWG1503332-1	J:\LC10\DATA\050415X\254\0504000164.D	05/06/15	06:26
AIA150414FHDSMS	KWG1503332-2	J:\LC10\DATA\050415X\254\0504000165.D	05/06/15	07:14





**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Extracted:** 04/20/2015  
**Date Analyzed:** 04/23/2015  
**Time Analyzed:** 23:52

**Lab Control Sample Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Sample Name:** Lab Control Sample **Instrument ID:** LC10  
**Lab Code:** KWG1503332-3 **File ID:** J:\LC10\DATA\042315X\254\0423000205.D  
**Extraction Method:** METHOD **Level:** Low  
**Analysis Method:** 8330B **Extraction Lot:** KWG1503332

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1503332-4	J:\LC10\DATA\042315X\254\0423000204.D	04/23/15	22:41
Method Blank	KWG1503332-4	J:\LC10\DATA\042315X\210\0423000204.D	04/23/15	22:41
AIA15041398IAMW01	K1503815-001	J:\LC10\DATA\042315X\210\0423000206.D	04/24/15	01:02
AIA15041398IAMW01	K1503815-001	J:\LC10\DATA\042315X\254\0423000206.D	04/24/15	01:02
AIA15041398IAMW02	K1503815-002	J:\LC10\DATA\042315X\210\0423000207.D	04/24/15	02:13
AIA15041398IAMW02	K1503815-002	J:\LC10\DATA\042315X\254\0423000207.D	04/24/15	02:13
AIA15041398IAMW03	K1503815-003	J:\LC10\DATA\042315X\254\0423000208.D	04/24/15	03:24
AIA15041398IAMW03	K1503815-003	J:\LC10\DATA\042315X\210\0423000208.D	04/24/15	03:24
AIA15041398IAMW13	K1503815-004	J:\LC10\DATA\042315X\210\0423000209.D	04/24/15	04:35
AIA15041398IAMW13	K1503815-004	J:\LC10\DATA\042315X\254\0423000209.D	04/24/15	04:35
AIA15041398IAMW04	K1503815-005	J:\LC10\DATA\042315X\210\0423000210.D	04/24/15	05:45
AIA15041398IAMW04	K1503815-005	J:\LC10\DATA\042315X\254\0423000210.D	04/24/15	05:45
AIA15041398IAMW05	K1503815-006	J:\LC10\DATA\042315X\210\0423000211.D	04/24/15	06:56
AIA15041398IAMW05	K1503815-006	J:\LC10\DATA\042315X\254\0423000211.D	04/24/15	06:56
AIA150414AIASP01	K1503815-007	J:\LC10\DATA\042315X\254\0423000212.D	04/24/15	08:07
AIA150414AIASP01	K1503815-007	J:\LC10\DATA\042315X\210\0423000212.D	04/24/15	08:07
AIA150413AIASP02	K1503815-008	J:\LC10\DATA\042315X\210\0423000213.D	04/24/15	09:18
AIA150413AIASP02	K1503815-008	J:\LC10\DATA\042315X\254\0423000213.D	04/24/15	09:18
AIA150413AIASP04	K1503815-009	J:\LC10\DATA\042315X\210\0423000216.D	04/24/15	12:50
AIA150413AIASP04	K1503815-009	J:\LC10\DATA\042315X\254\0423000216.D	04/24/15	12:50
AIA150413AIASP05	K1503815-010	J:\LC10\DATA\042315X\210\0423000217.D	04/24/15	14:01
AIA150413AIASP05	K1503815-010	J:\LC10\DATA\042315X\254\0423000217.D	04/24/15	14:01
AIA150414FHDS	K1503815-011	J:\LC10\DATA\042315X\254\0423000218.D	04/24/15	15:12
AIA150414FHDS	K1503815-011	J:\LC10\DATA\042315X\210\0423000218.D	04/24/15	15:12
AIA150414FHDSMS	KWG1503332-1	J:\LC10\DATA\042315X\210\0423000219.D	04/24/15	16:22
AIA150414FHDSMS	KWG1503332-1	J:\LC10\DATA\042315X\254\0423000219.D	04/24/15	16:22
AIA150414FHDSMS	KWG1503332-2	J:\LC10\DATA\042315X\210\0423000220.D	04/24/15	17:33
AIA150414FHDSMS	KWG1503332-2	J:\LC10\DATA\042315X\254\0423000220.D	04/24/15	17:33
AIA150413AIASP04	K1503815-009	J:\LC10\DATA\050415X\254\0504000106.D	05/04/15	13:19
AIA150413AIASP05	K1503815-010	J:\LC10\DATA\050415X\254\0504000108.D	05/04/15	14:42
AIA150414FHDS	K1503815-011	J:\LC10\DATA\050415X\254\0504000110.D	05/04/15	16:06
AIA150414FHDSMS	KWG1503332-1	J:\LC10\DATA\050415X\254\0504000164.D	05/06/15	06:26
AIA150414FHDSMS	KWG1503332-2	J:\LC10\DATA\050415X\254\0504000165.D	05/06/15	07:14

Client: Sealaska Environmental Services, LLC  
 Project: JBLM AIA

Service Request: K1503815  
 Calibration Date: 03/12/2015

Initial Calibration Summary  
 Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL13891  
 Instrument ID: LC10

Column: Synergi Hydro R

Level ID	File ID	Level ID	File ID
A	J:\LC10\Data\031215XL\254\0312000103.D	G	J:\LC10\Data\031215XL\254\0312000110.D
B	J:\LC10\Data\031215XL\254\0312000104.D	H	J:\LC10\Data\031215XL\254\0312000111.D
C	J:\LC10\Data\031215XL\254\0312000105.D	I	J:\LC10\Data\031215XL\254\0312000112.D
D	J:\LC10\Data\031215XL\254\0312000106.D	J	J:\LC10\Data\031615XL\0316000104.D
E	J:\LC10\Data\031215XL\254\0312000108.D		
F	J:\LC10\Data\031215XL\254\0312000109.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
HMX				B	50	15500	C	100	15600	D	200	14800	E	1000	15600
	F	2000	15200	G	5000	16000	H	10000	15900	I	20000	15200	J	20	15100
RDX				B	50	27000	C	100	23300	D	200	21000	E	1000	20100
	F	2000	19600	G	5000	20300	H	10000	20300				J	20	31600
1,3,5-Trinitrobenzene				B	50	44600	C	100	46000	D	200	43300	E	1000	46400
	F	2000	44700	G	5000	46800	H	10000	47200	I	20000	44900	J	20	43600
1,3-Dinitrobenzene				B	50	62700	C	100	61700	D	200	58500	E	1000	62000
	F	2000	59800	G	5000	63700	H	10000	63200	I	20000	60600	J	20	58200
3,5-Dinitroaniline				B	50	51000	C	100	50000	D	200	44500	E	1000	49100
	F	2000	47400	G	5000	50200	H	10000	50000	I	20000	47800	J	20	46400
TETRYL				B	50	38400	C	100	39300	D	200	32300	E	1000	34400
	F	2000	33700	G	5000	35700	H	10000	35500	I	20000	34000	J	20	33900
Nitrobenzene				B	50	41600	C	100	41900	D	200	36500	E	1000	38200
	F	2000	37400	G	5000	39700	H	10000	39500	I	20000	37600	J	20	36200
4-Amino-2,6-dinitrotoluene				B	50	32000	C	100	34000	D	200	29400	E	1000	29500
	F	2000	29400	G	5000	31400	H	10000	31300	I	20000	29800	J	20	33600
2-Amino-4,6-dinitrotoluene				B	50	40000	C	100	43000	D	200	40000	E	1000	41400
	F	2000	40600	G	5000	42900	H	10000	42800	I	20000	40900	J	20	43000
2,4,6-Trinitrotoluene				B	50	43000	C	100	45500	D	200	39800	E	1000	41800
	F	2000	40800	G	5000	43400	H	10000	43300	I	20000	41300	J	20	39900
2,6-Dinitrotoluene				B	50	28100	C	100	29700	D	200	27100	E	1000	28700
	F	2000	27400	G	5000	28700	H	10000	29200	I	20000	27500	J	20	29000
2,4-Dinitrotoluene				B	50	56600	C	100	57800	D	200	52900	E	1000	56800
	F	2000	54800	G	5000	58600	H	10000	57900	I	20000	55800	J	20	56200
2-Nitrotoluene				B	50	23800	C	100	25700	D	200	23600	E	1000	26800
	F	2000	25200	G	5000	26100	H	10000	25700	I	20000	24500	J	20	26400
4-Nitrotoluene				B	50	20700	C	100	21500	D	200	21100	E	1000	22600
	F	2000	21500	G	5000	22200	H	10000	21800	I	20000	20700	J	20	20100

Results flagged with an asterisk (\*) indicate values outside control criteria.

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Calibration Date:** 03/12/2015

**Initial Calibration Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Calibration ID:** CAL13891  
**Instrument ID:** LC10

**Column:** Synergi Hydro R

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF			
3-Nitrotoluene				B	50	27500	C	100	27800	D	200	27800	E	1000	29700
	F	2000	27900	G	5000	29000	H	10000	28700	I	20000	27300	J	20	30400
1-Chloro-3-nitrobenzene				B	50	31300	C	100	30800	D	200	29400	E	1000	31300
	F	2000	30200	G	5000	32600	H	10000	32300	I	20000	30800	J	20	27900

Results flagged with an asterisk (\*) indicate values outside control criteria.

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Calibration Date:** 03/12/2015

**Initial Calibration Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Calibration ID:** CAL13891  
**Instrument ID:** LC10

**Column:** Synergi Hydro R

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
HMX	MS	AverageRF	% RSD	2.5		≤ 20
RDX	MS	Quadratic	COD	1.000		≥ 0.99
1,3,5-Trinitrobenzene	MS	AverageRF	% RSD	3.1		≤ 20
1,3-Dinitrobenzene	MS	AverageRF	% RSD	3.3		≤ 20
3,5-Dinitroaniline	MS	AverageRF	% RSD	4.4		≤ 20
TETRYL	MS	AverageRF	% RSD	6.5		≤ 20
Nitrobenzene	MS	AverageRF	% RSD	5.4		≤ 20
4-Amino-2,6-dinitrotoluene	MS	AverageRF	% RSD	5.7		≤ 20
2-Amino-4,6-dinitrotoluene	MS	AverageRF	% RSD	3.2		≤ 20
2,4,6-Trinitrotoluene	MS	AverageRF	% RSD	4.5		≤ 20
2,6-Dinitrotoluene	MS	AverageRF	% RSD	3.1		≤ 20
2,4-Dinitrotoluene	MS	AverageRF	% RSD	3.1		≤ 20
2-Nitrotoluene	MS	AverageRF	% RSD	4.4		≤ 20
4-Nitrotoluene	MS	AverageRF	% RSD	3.7		≤ 20
3-Nitrotoluene	MS	AverageRF	% RSD	3.7		≤ 20
1-Chloro-3-nitrobenzene	SURR	AverageRF	% RSD	4.7		≤ 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Calibration Date:** 03/12/2015  
**Date Analyzed:** 03/17/2015

**Second Source Calibration Verification**  
**Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration ID:** CAL13891  
**Units:** ug/L

**File ID:** J:\LC10\Data\031215XL\254\0312000114.D  
 J:\LC10\Data\031715XL\254\0317000104.D

**Column ID:** Synergi Hydro R

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1000	15400	15900	3	NA	± 20 %	AverageRF
RDX	1000	990	22900	20100	NA	-1	± 20 %	Quadratic
1,3,5-Trinitrobenzene	1000	1000	45300	45100	0	NA	± 20 %	AverageRF
1,3-Dinitrobenzene	1000	980	61200	60200	-2	NA	± 20 %	AverageRF
3,5-Dinitroaniline	1000	970	48500	47200	-3	NA	± 20 %	AverageRF
TETRYL	1000	1000	35200	35200	0	NA	± 20 %	AverageRF
Nitrobenzene	1000	1000	38800	38700	0	NA	± 20 %	AverageRF
4-Amino-2,6-dinitrotoluene	1000	940	31200	29200	-6	NA	± 20 %	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1000	41600	43500	4	NA	± 20 %	AverageRF
2,4,6-Trinitrotoluene	1000	990	42100	41800	-1	NA	± 20 %	AverageRF
2,6-Dinitrotoluene	1000	1000	28400	28600	1	NA	± 20 %	AverageRF
2,4-Dinitrotoluene	1000	1000	56400	56300	0	NA	± 20 %	AverageRF
2-Nitrotoluene	1000	980	25300	24800	-2	NA	± 20 %	AverageRF
4-Nitrotoluene	1000	980	21400	20900	-2	NA	± 20 %	AverageRF
3-Nitrotoluene	1000	900	28400	25700	-10	NA	± 20 %	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client: Sealaska Environmental Services, LLC  
 Project: JBLM AIA

Service Request: K1503815  
 Calibration Date: 03/12/2015

**Initial Calibration Summary**  
**Nitroaromatics and Nitramines (Explosives)**

Calibration ID: CAL13892  
 Instrument ID: LC10

Column: Synergi Hydro 4

Level ID	File ID	Level ID	File ID
A	J:\LC10\Data\031215XL\210\0312000103.D	F	J:\LC10\Data\031215XL\210\0312000109.D
B	J:\LC10\Data\031215XL\210\0312000104.D	G	J:\LC10\Data\031215XL\210\0312000110.D
C	J:\LC10\Data\031215XL\210\0312000105.D	H	J:\LC10\Data\031215XL\210\0312000111.D
D	J:\LC10\Data\031215XL\210\0312000106.D	I	J:\LC10\Data\031215XL\210\0312000112.D
E	J:\LC10\Data\031215XL\210\0312000108.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Nitroglycerin				B	50	43700	C	100	40800	D	200	40800	E	1000	41500
	F	2000	40100	G	5000	42400	H	10000	42100	I	20000	40000			
Pentaerythritol Tetranitrate				B	50	43900	C	100	59500	D	200	56300	E	1000	61700
	F	2000	60200	G	5000	63500	H	10000	63100	I	20000	60100			
1-Chloro-3-nitrobenzene				B	50	94300	C	100	86900	D	200	72300	E	1000	82100
	F	2000	80100	G	5000	84200	H	10000	84100	I	20000	80000			

Results flagged with an asterisk (\*) indicate values outside control criteria.

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Calibration Date:** 03/12/2015

**Initial Calibration Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Calibration ID:** CAL13892  
**Instrument ID:** LC10

**Column:** Synergi Hydro 4

Analyte Name	Compound Type	Calibration Evaluation				Control Criteria
		Fit Type	Eval.	Eval. Result	Q	
Nitroglycerin	MS	AverageRF	% RSD	3.0		≤ 20
Pentaerythritol Tetranitrate	MS	AverageRF	% RSD	10.8		≤ 20
1-Chloro-3-nitrobenzene	SURR	AverageRF	% RSD	7.6		≤ 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Calibration Date:** 03/12/2015  
**Date Analyzed:** 03/17/2015

**Second Source Calibration Verification**  
**Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration ID:** CAL13892  
**Units:** ug/L

**File ID:** J:\LC10\Data\031215XL\210\0312000114.D  
 J:\LC10\Data\031715XL\210\0317000104.D

**Column ID:** Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	960	41400	39800	-4	NA	± 20 %	AverageRF
Pentaerythritol Tetranitrate	1000	970	58500	56800	-3	NA	± 20 %	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 04/23/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13892  
**Analysis Lot:** KWG1503922  
**Units:** ug/L  
**Column ID:** Synergi Hydro 4

**File ID:** J:\LC10\DATA\042315X\210\0423000203.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	940	41400	38900	-6	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	990	58500	57800	-1	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	930	83000	77300	-7	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 04/23/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13891  
**Analysis Lot:** KWG1503923  
**Units:** ug/L  
**Column ID:** Synergi Hydro R

**File ID:** J:\LC10\DATA\042315X\254\0423000203.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1000	15400	15700	2	NA	± 20	AverageRF
RDX	1000	990	22900	19900	NA	-1	± 20	Quadratic
1,3,5-Trinitrobenzene	1000	1000	45300	45200	0	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1000	61200	62100	1	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	990	48500	47800	-1	NA	± 20	AverageRF
TETRYL	1000	900	35200	31800	-10	NA	± 20	AverageRF
Nitrobenzene	1000	950	38800	37000	-5	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	970	31200	30200	-3	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	990	41600	41100	-1	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	990	42100	41500	-1	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1000	28400	28600	1	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	980	56400	55100	-2	NA	± 20	AverageRF
2-Nitrotoluene	1000	950	25300	24000	-5	NA	± 20	AverageRF
4-Nitrotoluene	1000	950	21400	20400	-5	NA	± 20	AverageRF
3-Nitrotoluene	1000	910	28400	25900	-9	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	960	30700	29600	-4	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 04/24/2015

**Continuing Calibration Verification Summary**  
**Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13892  
**Analysis Lot:** KWG1503922  
**Units:** ug/L  
**Column ID:** Synergi Hydro 4

**File ID:** J:\LC10\DATA\042315X\210\0423000214.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	1000	41400	42100	2	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	1100	58500	62200	6	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1000	83000	83500	1	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 04/24/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13891  
**Analysis Lot:** KWG1503923  
**Units:** ug/L  
**Column ID:** Synergi Hydro R

**File ID:** J:\LC10\DATA\042315X\254\0423000214.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1100	15400	16900	10	NA	± 20	AverageRF
RDX	1000	1100	22900	21900	NA	9	± 20	Quadratic
1,3,5-Trinitrobenzene	1000	1100	45300	49500	9	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1100	61200	66700	9	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	1000	48500	50300	4	NA	± 20	AverageRF
TETRYL	1000	810	35200	28700	-19	NA	± 20	AverageRF
Nitrobenzene	1000	1000	38800	39000	1	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1100	31200	33300	7	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1100	41600	45300	9	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1100	42100	45700	8	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1100	28400	31300	10	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	1000	56400	57900	3	NA	± 20	AverageRF
2-Nitrotoluene	1000	1000	25300	25600	1	NA	± 20	AverageRF
4-Nitrotoluene	1000	1000	21400	21900	3	NA	± 20	AverageRF
3-Nitrotoluene	1000	960	28400	27400	-4	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1100	30700	32600	6	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 04/24/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13892  
**Analysis Lot:** KWG1503922  
**Units:** ug/L  
**Column ID:** Synergi Hydro 4

**File ID:** J:\LC10\DATA\042315X\210\0423000221.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	930	41400	38600	-7	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	970	58500	56700	-3	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	930	83000	77500	-7	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 04/24/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13891  
**Analysis Lot:** KWG1503923  
**Units:** ug/L  
**Column ID:** Synergi Hydro R

**File ID:** J:\LC10\DATA\042315X\254\0423000221.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1000	15400	15600	1	NA	± 20	AverageRF
RDX	1000	1000	22900	20700	NA	2	± 20	Quadratic
1,3,5-Trinitrobenzene	1000	990	45300	45100	-1	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1000	61200	62200	2	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	970	48500	46900	-3	NA	± 20	AverageRF
TETRYL	1000	680	35200	24100	-32	*	± 20	AverageRF
Nitrobenzene	1000	940	38800	36300	-6	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	970	31200	30100	-3	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	990	41600	41300	-1	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	990	42100	41700	-1	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	980	28400	27900	-2	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	990	56400	55800	-1	NA	± 20	AverageRF
2-Nitrotoluene	1000	950	25300	24100	-5	NA	± 20	AverageRF
4-Nitrotoluene	1000	980	21400	20900	-2	NA	± 20	AverageRF
3-Nitrotoluene	1000	920	28400	26200	-8	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	980	30700	30200	-2	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 05/04/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13891  
**Analysis Lot:** KWG1504264  
**Units:** ug/L  
**Column ID:** Synergi Hydro R

**File ID:** J:\LC10\DATA\050415X\254\0504000104.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1100	15400	16200	5	NA	± 20	AverageRF
RDX	1000	1000	22900	20700	NA	3	± 20	Quadratic
1,3,5-Trinitrobenzene	1000	1000	45300	46900	4	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1000	61200	64200	5	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	1000	48500	48800	1	NA	± 20	AverageRF
TETRYL	1000	910	35200	32200	-9	NA	± 20	AverageRF
Nitrobenzene	1000	980	38800	37800	-2	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	970	31200	30300	-3	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1000	41600	42500	2	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1000	42100	42700	1	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1100	28400	30300	7	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	1000	56400	57500	2	NA	± 20	AverageRF
2-Nitrotoluene	1000	1000	25300	25700	2	NA	± 20	AverageRF
4-Nitrotoluene	1000	1000	21400	21500	1	NA	± 20	AverageRF
3-Nitrotoluene	1000	980	28400	27900	-2	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1000	30700	31900	4	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 05/04/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13891  
**Analysis Lot:** KWG1504264  
**Units:** ug/L  
**Column ID:** Synergi Hydro R

**File ID:** J:\LC10\DATA\050415X\254\0504000116.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1200	15400	18000	17	NA	± 20	AverageRF
RDX	1000	1100	22900	22300	NA	11	± 20	Quadratic
1,3,5-Trinitrobenzene	1000	1100	45300	50600	12	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1100	61200	69400	13	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	1100	48500	53500	10	NA	± 20	AverageRF
TETRYL	1000	1000	35200	35200	0	NA	± 20	AverageRF
Nitrobenzene	1000	1100	38800	41700	8	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1100	31200	33500	8	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1100	41600	45700	10	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1100	42100	46100	10	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1100	28400	32200	14	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	1100	56400	61500	9	NA	± 20	AverageRF
2-Nitrotoluene	1000	1000	25300	26600	5	NA	± 20	AverageRF
4-Nitrotoluene	1000	1100	21400	22800	7	NA	± 20	AverageRF
3-Nitrotoluene	1000	1000	28400	29600	4	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1100	30700	34300	12	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.



QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 05/06/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13891  
**Analysis Lot:** KWG1504264  
**Units:** ug/L  
**Column ID:** Synergi Hydro R

**File ID:** J:\LC10\DATA\050415X\254\0504000158.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1200	15400	18200	18	NA	± 20	AverageRF
RDX	1000	1100	22900	22400	NA	11	± 20	Quadratic
1,3,5-Trinitrobenzene	1000	1100	45300	51700	14	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1200	61200	71000	16	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	1100	48500	53500	10	NA	± 20	AverageRF
TETRYL	1000	970	35200	34200	-3	NA	± 20	AverageRF
Nitrobenzene	1000	1000	38800	40500	4	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1100	31200	34600	11	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1100	41600	46800	12	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1100	42100	47600	13	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1200	28400	33000	16	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	1100	56400	62300	11	NA	± 20	AverageRF
2-Nitrotoluene	1000	1100	25300	26800	6	NA	± 20	AverageRF
4-Nitrotoluene	1000	1100	21400	23100	8	NA	± 20	AverageRF
3-Nitrotoluene	1000	1100	28400	29900	5	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1100	30700	34700	13	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815  
**Date Analyzed:** 05/06/2015

**Continuing Calibration Verification Summary  
 Nitroaromatics and Nitramines (Explosives)**

**Calibration Type:** External Standard  
**Analysis Method:** 8330B

**Calibration Date:** 03/12/2015  
**Calibration ID:** CAL13891  
**Analysis Lot:** KWG1504264  
**Units:** ug/L  
**Column ID:** Synergi Hydro R

**File ID:** J:\LC10\DATA\050415X\254\0504000166.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1100	15400	17500	14	NA	± 20	AverageRF
RDX	1000	1100	22900	22400	NA	11	± 20	Quadratic
1,3,5-Trinitrobenzene	1000	1100	45300	52000	15	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1200	61200	71300	17	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	1100	48500	55300	14	NA	± 20	AverageRF
TETRYL	1000	980	35200	34600	-2	NA	± 20	AverageRF
Nitrobenzene	1000	1000	38800	40500	4	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1100	31200	33700	8	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1100	41600	47200	13	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1100	42100	47200	12	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1200	28400	33400	18	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	1100	56400	62400	11	NA	± 20	AverageRF
2-Nitrotoluene	1000	1100	25300	26600	5	NA	± 20	AverageRF
4-Nitrotoluene	1000	1100	21400	23400	10	NA	± 20	AverageRF
3-Nitrotoluene	1000	1100	28400	30300	6	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1100	30700	34600	13	NA	± 20	AverageRF

Results flagged with an asterisk (\*) indicate values outside control criteria.

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815

**Analysis Run Log**  
**Nitroaromatics and Nitramines (Explosives)**

**Analysis Method:** 8330B

**Analysis Lot:** KWG1503922  
**Instrument ID:** LC10  
**Column:** Synergi Hydro 4

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
23000202.D	Instrument Blank	KWG1503922-1	4/23/2015	20:19		4/23/2015	21:01
23000203.D	Continuing Calibration Verification	KWG1503922-4	4/23/2015	21:30		4/23/2015	22:12
23000204.D	Method Blank	KWG1503332-4	4/23/2015	22:41		4/23/2015	23:23
23000205.D	Lab Control Sample	KWG1503332-3	4/23/2015	23:52		4/24/2015	00:34
23000206.D	AIA15041398IAMW01	K1503815-001	4/24/2015	01:02		4/24/2015	01:44
23000207.D	AIA15041398IAMW02	K1503815-002	4/24/2015	02:13		4/24/2015	02:55
23000208.D	AIA15041398IAMW03	K1503815-003	4/24/2015	03:24		4/24/2015	04:06
23000209.D	AIA15041398IAMW13	K1503815-004	4/24/2015	04:35		4/24/2015	05:17
23000210.D	AIA15041398IAMW04	K1503815-005	4/24/2015	05:45		4/24/2015	06:27
23000211.D	AIA15041398IAMW05	K1503815-006	4/24/2015	06:56		4/24/2015	07:38
23000212.D	AIA150414AIASP01	K1503815-007	4/24/2015	08:07		4/24/2015	08:49
23000213.D	AIA150413AIASP02	K1503815-008	4/24/2015	09:18		4/24/2015	10:00
23000214.D	Continuing Calibration Verification	KWG1503922-5	4/24/2015	10:29		4/24/2015	11:11
23000215.D	Instrument Blank	KWG1503922-2	4/24/2015	11:39		4/24/2015	12:21
23000216.D	AIA150413AIASP04	K1503815-009	4/24/2015	12:50		4/24/2015	13:32
23000217.D	AIA150413AIASP05	K1503815-010	4/24/2015	14:01		4/24/2015	14:43
23000218.D	AIA150414FHDS	K1503815-011	4/24/2015	15:12		4/24/2015	15:54
23000219.D	AIA150414FHDSMS	KWG1503332-1	4/24/2015	16:22		4/24/2015	17:04
23000220.D	AIA150414FHDSMS	KWG1503332-2	4/24/2015	17:33		4/24/2015	18:15
23000221.D	Continuing Calibration Verification	KWG1503922-6	4/24/2015	18:44		4/24/2015	19:26
23000222.D	Instrument Blank	KWG1503922-3	4/24/2015	19:55		4/24/2015	20:37

Results flagged with an asterisk (\*) indicate the holding time was exceeded for the analysis

Client: Sealaska Environmental Services, LLC  
 Project: JBLM AIA

Service Request: K1503815

Analysis Run Log  
 Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B

Analysis Lot: KWG1503923  
 Instrument ID: LC10  
 Column: Synergi Hydro R

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
23000202.D	Instrument Blank	KWG1503923-1	4/23/2015	20:19		4/23/2015	21:01
23000203.D	Continuing Calibration Verification	KWG1503923-4	4/23/2015	21:30		4/23/2015	22:12
23000204.D	Method Blank	KWG1503332-4	4/23/2015	22:41		4/23/2015	23:23
23000205.D	Lab Control Sample	KWG1503332-3	4/23/2015	23:52		4/24/2015	00:34
23000206.D	AIA15041398IAMW01	K1503815-001	4/24/2015	01:02		4/24/2015	01:44
23000207.D	AIA15041398IAMW02	K1503815-002	4/24/2015	02:13		4/24/2015	02:55
23000208.D	AIA15041398IAMW03	K1503815-003	4/24/2015	03:24		4/24/2015	04:06
23000209.D	AIA15041398IAMW13	K1503815-004	4/24/2015	04:35		4/24/2015	05:17
23000210.D	AIA15041398IAMW04	K1503815-005	4/24/2015	05:45		4/24/2015	06:27
23000211.D	AIA15041398IAMW05	K1503815-006	4/24/2015	06:56		4/24/2015	07:38
23000212.D	AIA150414AIASP01	K1503815-007	4/24/2015	08:07		4/24/2015	08:49
23000213.D	AIA150413AIASP02	K1503815-008	4/24/2015	09:18		4/24/2015	10:00
23000214.D	Continuing Calibration Verification	KWG1503923-5	4/24/2015	10:29		4/24/2015	11:11
23000215.D	Instrument Blank	KWG1503923-2	4/24/2015	11:39		4/24/2015	12:21
23000216.D	AIA150413AIASP04	K1503815-009	4/24/2015	12:50		4/24/2015	13:32
23000217.D	AIA150413AIASP05	K1503815-010	4/24/2015	14:01		4/24/2015	14:43
23000218.D	AIA150414FHDS	K1503815-011	4/24/2015	15:12		4/24/2015	15:54
23000219.D	AIA150414FHDSMS	KWG1503332-1	4/24/2015	16:22		4/24/2015	17:04
23000220.D	AIA150414FHDSMS	KWG1503332-2	4/24/2015	17:33		4/24/2015	18:15
23000221.D	Continuing Calibration Verification	KWG1503923-6	4/24/2015	18:44		4/24/2015	19:26
23000222.D	Instrument Blank	KWG1503923-3	4/24/2015	19:55		4/24/2015	20:37
23000223.D	ZZZZZZ	ZZZZZZ	4/24/2015	21:06		4/24/2015	21:48
23000224.D	ZZZZZZ	ZZZZZZ	4/24/2015	22:16		4/24/2015	22:58
23000225.D	ZZZZZZ	ZZZZZZ	4/24/2015	23:27		4/25/2015	00:09
23000226.D	ZZZZZZ	ZZZZZZ	4/25/2015	00:38		4/25/2015	01:20
23000227.D	ZZZZZZ	ZZZZZZ	4/25/2015	01:49		4/25/2015	02:31
23000228.D	ZZZZZZ	ZZZZZZ	4/25/2015	03:00		4/25/2015	03:42
23000229.D	ZZZZZZ	ZZZZZZ	4/25/2015	04:10		4/25/2015	04:52
23000230.D	ZZZZZZ	ZZZZZZ	4/25/2015	05:21		4/25/2015	06:03
23000231.D	ZZZZZZ	ZZZZZZ	4/25/2015	06:32		4/25/2015	07:14
23000232.D	ZZZZZZ	ZZZZZZ	4/25/2015	07:43		4/25/2015	08:25
23000233.D	Continuing Calibration Verification	KWG1503923-10	4/25/2015	08:53		4/25/2015	09:35
23000234.D	Instrument Blank	KWG1503923-7	4/25/2015	10:04		4/25/2015	10:46
23000235.D	ZZZZZZ	ZZZZZZ	4/25/2015	11:15		4/25/2015	11:57

Results flagged with an asterisk (\*) indicate the holding time was exceeded for the analysis

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA

**Service Request:** K1503815

**Analysis Run Log**  
**Nitroaromatics and Nitramines (Explosives)**

**Analysis Method:** 8330B

**Analysis Lot:** KWG1503923  
**Instrument ID:** LC10  
**Column:** Synergi Hydro R

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
23000236.D	ZZZZZZ	ZZZZZZ	4/25/2015	12:26		4/25/2015	13:08
23000237.D	ZZZZZZ	ZZZZZZ	4/25/2015	13:37		4/25/2015	14:19
23000238.D	ZZZZZZ	ZZZZZZ	4/25/2015	14:47		4/25/2015	15:29
23000239.D	ZZZZZZ	ZZZZZZ	4/25/2015	15:58		4/25/2015	16:40
23000240.D	ZZZZZZ	ZZZZZZ	4/25/2015	17:09		4/25/2015	17:51
23000241.D	ZZZZZZ	ZZZZZZ	4/25/2015	18:20		4/25/2015	19:02
23000242.D	ZZZZZZ	ZZZZZZ	4/25/2015	19:31		4/25/2015	20:13
23000243.D	Continuing Calibration Verification	KWG1503923-11	4/25/2015	20:42		4/25/2015	21:24
23000244.D	Instrument Blank	KWG1503923-8	4/25/2015	21:52		4/25/2015	22:34

Results flagged with an asterisk (\*) indicate the holding time was exceeded for the analysis

Client: Sealaska Environmental Services, LLC  
 Project: JBLM AIA

Service Request: K1503815

Analysis Run Log  
 Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B

Analysis Lot: KWG1504264  
 Instrument ID: LC10  
 Column: Synergi Hydro R

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
04000102.D	Instrument Blank	KWG1504264-1	5/4/2015	10:32		5/4/2015	11:14
04000104.D	Continuing Calibration Verification	KWG1504264-6	5/4/2015	11:55		5/4/2015	12:37
04000106.D	AIA150413AIASP04	K1503815-009	5/4/2015	13:19		5/4/2015	14:01
04000108.D	AIA150413AIASP05	K1503815-010	5/4/2015	14:42		5/4/2015	15:24
04000110.D	AIA150414FHDS	K1503815-011	5/4/2015	16:06		5/4/2015	16:48
04000116.D	Continuing Calibration Verification	KWG1504264-7	5/4/2015	20:17		5/4/2015	20:59
04000118.D	Instrument Blank	KWG1504264-2	5/4/2015	21:40		5/4/2015	22:22
04000119.D	ZZZZZZ	ZZZZZZ	5/4/2015	22:27		5/4/2015	23:09
04000121.D	ZZZZZZ	ZZZZZZ	5/4/2015	23:51		5/5/2015	00:33
04000125.D	ZZZZZZ	ZZZZZZ	5/5/2015	02:38		5/5/2015	03:20
04000127.D	ZZZZZZ	ZZZZZZ	5/5/2015	04:02		5/5/2015	04:44
04000129.D	ZZZZZZ	ZZZZZZ	5/5/2015	05:26		5/5/2015	06:08
04000131.D	ZZZZZZ	ZZZZZZ	5/5/2015	06:49		5/5/2015	07:31
04000133.D	ZZZZZZ	ZZZZZZ	5/5/2015	08:13		5/5/2015	08:55
04000135.D	ZZZZZZ	ZZZZZZ	5/5/2015	09:36		5/5/2015	10:18
04000137.D	Continuing Calibration Verification	KWG1504264-8	5/5/2015	11:00		5/5/2015	11:42
04000139.D	Instrument Blank	KWG1504264-3	5/5/2015	12:23		5/5/2015	13:05
04000146.D	ZZZZZZ	ZZZZZZ	5/5/2015	17:22		5/5/2015	18:04
04000150.D	ZZZZZZ	ZZZZZZ	5/5/2015	20:09		5/5/2015	20:51
04000152.D	ZZZZZZ	ZZZZZZ	5/5/2015	21:32		5/5/2015	22:14
04000154.D	ZZZZZZ	ZZZZZZ	5/5/2015	22:56		5/5/2015	23:38
04000156.D	ZZZZZZ	ZZZZZZ	5/6/2015	00:20		5/6/2015	01:02
04000158.D	Continuing Calibration Verification	KWG1504264-9	5/6/2015	01:43		5/6/2015	02:25
04000159.D	Instrument Blank	KWG1504264-4	5/6/2015	02:30		5/6/2015	03:12
04000161.D	ZZZZZZ	ZZZZZZ	5/6/2015	04:05		5/6/2015	04:47
04000162.D	ZZZZZZ	ZZZZZZ	5/6/2015	04:52		5/6/2015	05:34
04000163.D	ZZZZZZ	ZZZZZZ	5/6/2015	05:39		5/6/2015	06:21
04000164.D	AIA150414FHDSMS	KWG1503332-1	5/6/2015	06:26		5/6/2015	07:08
04000165.D	AIA150414FHDSMS	KWG1503332-2	5/6/2015	07:14		5/6/2015	07:56
04000166.D	Continuing Calibration Verification	KWG1504264-10	5/6/2015	08:01		5/6/2015	08:43
04000167.D	Instrument Blank	KWG1504264-5	5/6/2015	08:48		5/6/2015	09:30

Results flagged with an asterisk (\*) indicate the holding time was exceeded for the analysis

QA/QC Results

**Client:** Sealaska Environmental Services, LLC  
**Project:** JBLM AIA  
**Sample Matrix:** Water

**Service Request:** K1503815  
**Date Extracted:** 04/20/2015

**Extraction Prep Log**  
**Nitroaromatics and Nitramines (Explosives)**

**Extraction Method:** METHOD  
**Analysis Method:** 8330B

**Extraction Lot:** KWG1503332  
**Level:** Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
AIA15041398IAMW01	K1503815-001	04/13/15	04/14/15	1030ml	4.0ml	NA	
AIA15041398IAMW02	K1503815-002	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA15041398IAMW03	K1503815-003	04/13/15	04/14/15	1030ml	4.0ml	NA	
AIA15041398IAMW13	K1503815-004	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA15041398IAMW04	K1503815-005	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA15041398IAMW05	K1503815-006	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA150414AIASP01	K1503815-007	04/14/15	04/14/15	1020ml	4.0ml	NA	
AIA150413AIASP02	K1503815-008	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA150413AIASP04	K1503815-009	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA150413AIASP04RE	K1503815-009	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA150413AIASP05RE	K1503815-010	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA150413AIASP05	K1503815-010	04/13/15	04/14/15	1040ml	4.0ml	NA	
AIA150414FHDSRE	K1503815-011	04/14/15	04/14/15	1040ml	4.0ml	NA	
AIA150414FHDS	K1503815-011	04/14/15	04/14/15	1040ml	4.0ml	NA	
Method Blank	KWG1503332-4	NA	NA	1000ml	4.0ml	NA	
AIA150414FHDSMS	KWG1503332-1	04/14/15	04/14/15	1040ml	4.0ml	NA	
AIA150414FHDSMS	KWG1503332-2	04/14/15	04/14/15	1040ml	4.0ml	NA	
Lab Control Sample	KWG1503332-3	NA	NA	1000ml	4.0ml	NA	

Results flagged with an asterisk (\*) indicate the holding time was exceeded for the analysis



## Raw Data

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577-7222 Fax (360)636-1068  
[www.alsglobal.com](http://www.alsglobal.com)





# Nitroaromatics and Nitramines (Explosives)

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577-7222 Fax (360)636-1068  
[www.alsglobal.com](http://www.alsglobal.com)

## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000206.D  
**Lab ID:** K1503815-001  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 01:02  
**Date Quantitated:** 05/01/2015 13:22  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank	HMX	0.58	NA	0.10	confirm

Primary Review: lu 5/5/15

Secondary Review: QA 5/12/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\254\0423000206.D	<b>Instrument:</b>	LC10
<b>Acq Date:</b>	04/24/2015 01:02	<b>Quant Date:</b>	05/01/2015 13:22
<b>Run Type:</b>	SMPL	<b>Vial:</b>	53
<b>Lab ID:</b>	K1503815-001	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	01	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/13/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503923	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427784	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>	J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Report List</b>	

### Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.42	-0.02	132489454	4,312	86	23-98	OK

### Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.33	-0.01	2615270m	169.62	0.66	B	J · I
RDX	7.19	0.04	965269m	42.32	0.16	C	
1,3,5-Trinitrobenzene	10.00	0.05	377296m	8.33	0.050	U	
1,3-Dinitrobenzene			0		0.0085	U	
3,5-Dinitroaniline			0		0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0		0.024	U	
4-Amino-2,6-dinitrotoluene			0		0.016	U	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	
2,6-Dinitrotoluene			0d		0.054	U	
2,4-Dinitrotoluene			0		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0d		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1030 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
F: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000206.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 01:02:51  
 Operator : CFS  
 Sample : K1503815-001  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:22:48 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.419	132489454	4311.758 ug/L
Target Compounds			
1) T HMX	4.325	2615270	169.618 ug/L m
2) T RDX	7.185	965269	42.318 ug/L m
3) T 1,3,5-TNB	9.999	377296	8.330 ug/L m
4) T 1,3-DNB	0.000	0	N.D. ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D. ug/L
6) T Tetryl	0.000	0	N.D. ug/L
7) T Nitrobenzene	0.000	0	N.D. ug/L
8) T 2,4,6-TNT	0.000	0	N.D. ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D. ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D. ug/L
11) T 2,6-DNT	0.000	0	N.D. ug/L d
12) T 2,4-DNT	0.000	0	N.D. ug/L
13) T 2-NT	0.000	0	N.D. ug/L d
14) T 4-NT	0.000	0	N.D. ug/L d
15) T 3-NT	0.000	0	N.D. ug/L

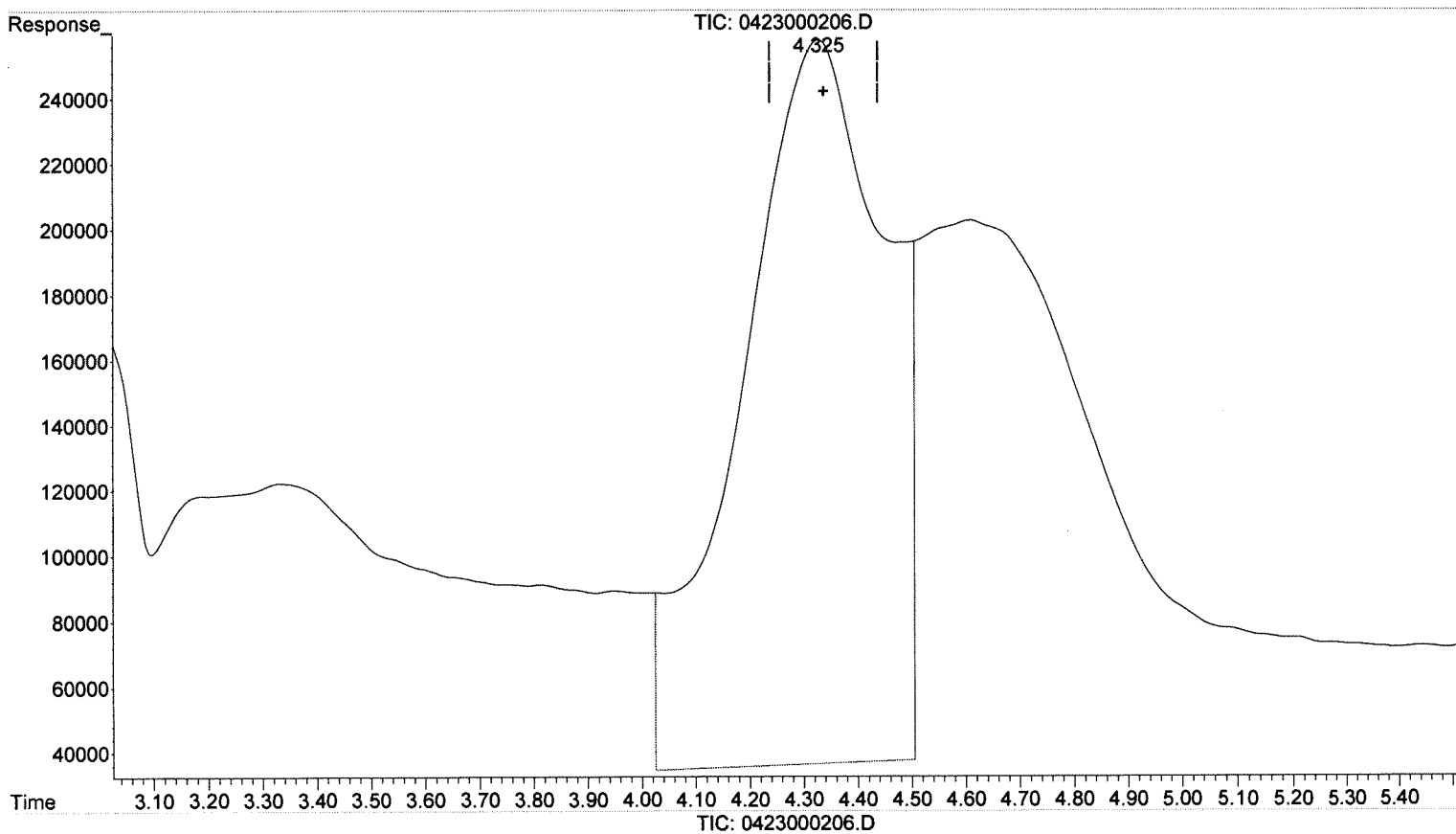
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000206.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 01:02:51  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:47 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.325min 268.605 ug/L  
response 4141514

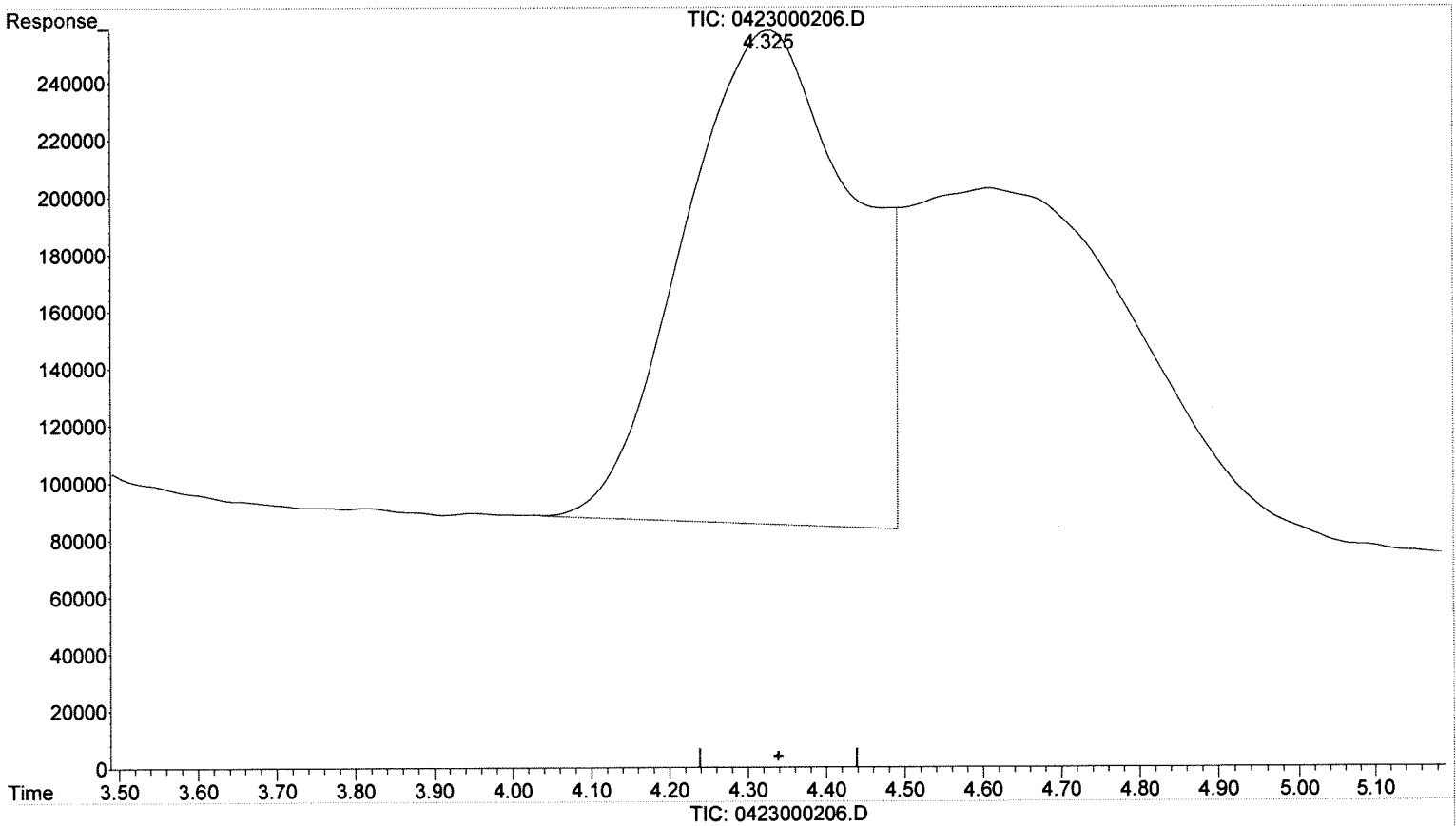
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000206.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 01:02:51  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:47 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



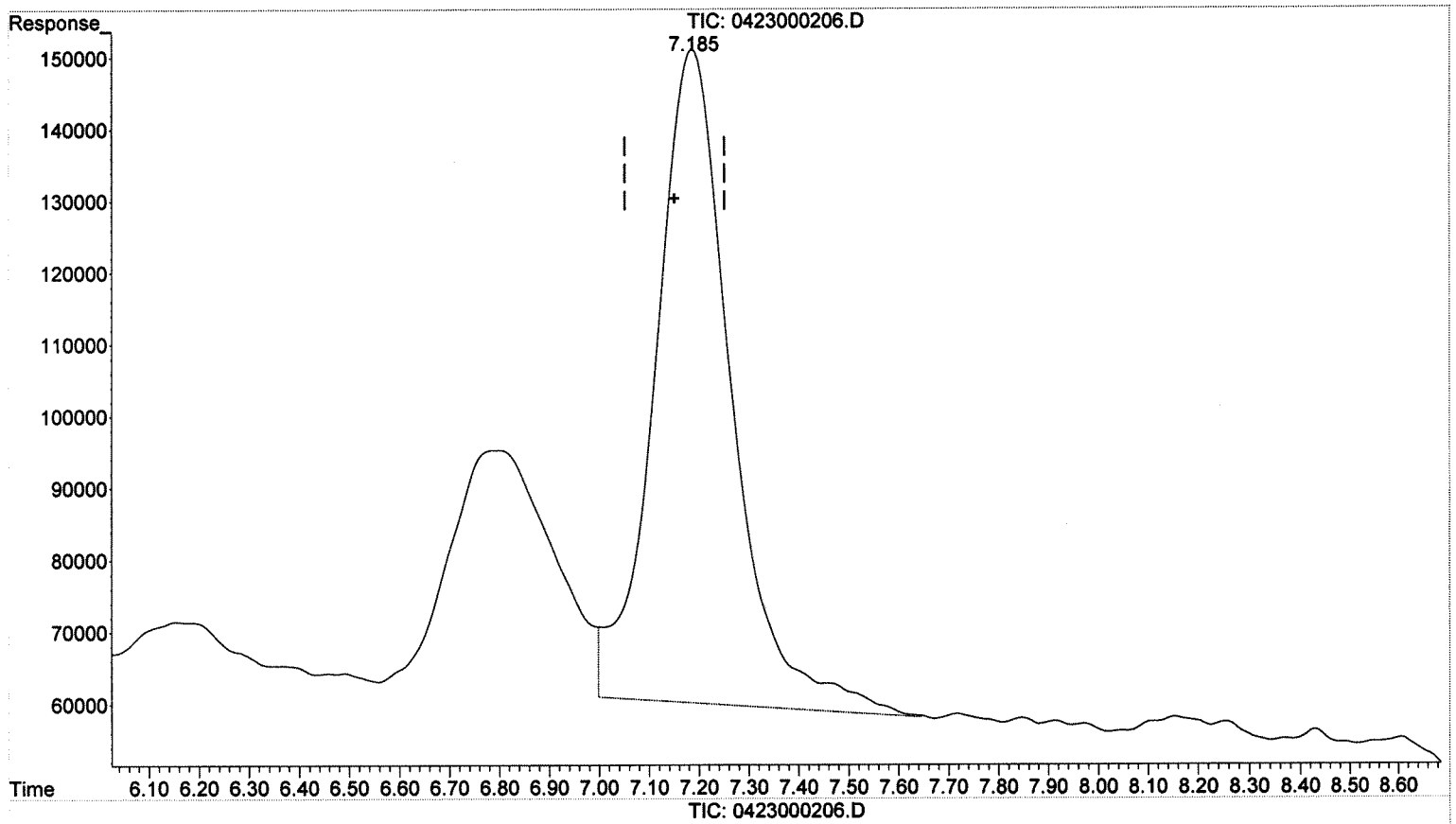
(1) HMX (T)  
4.325min 169.618 ug/L m  
response 2615270

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000206.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 01:02:51  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:47 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



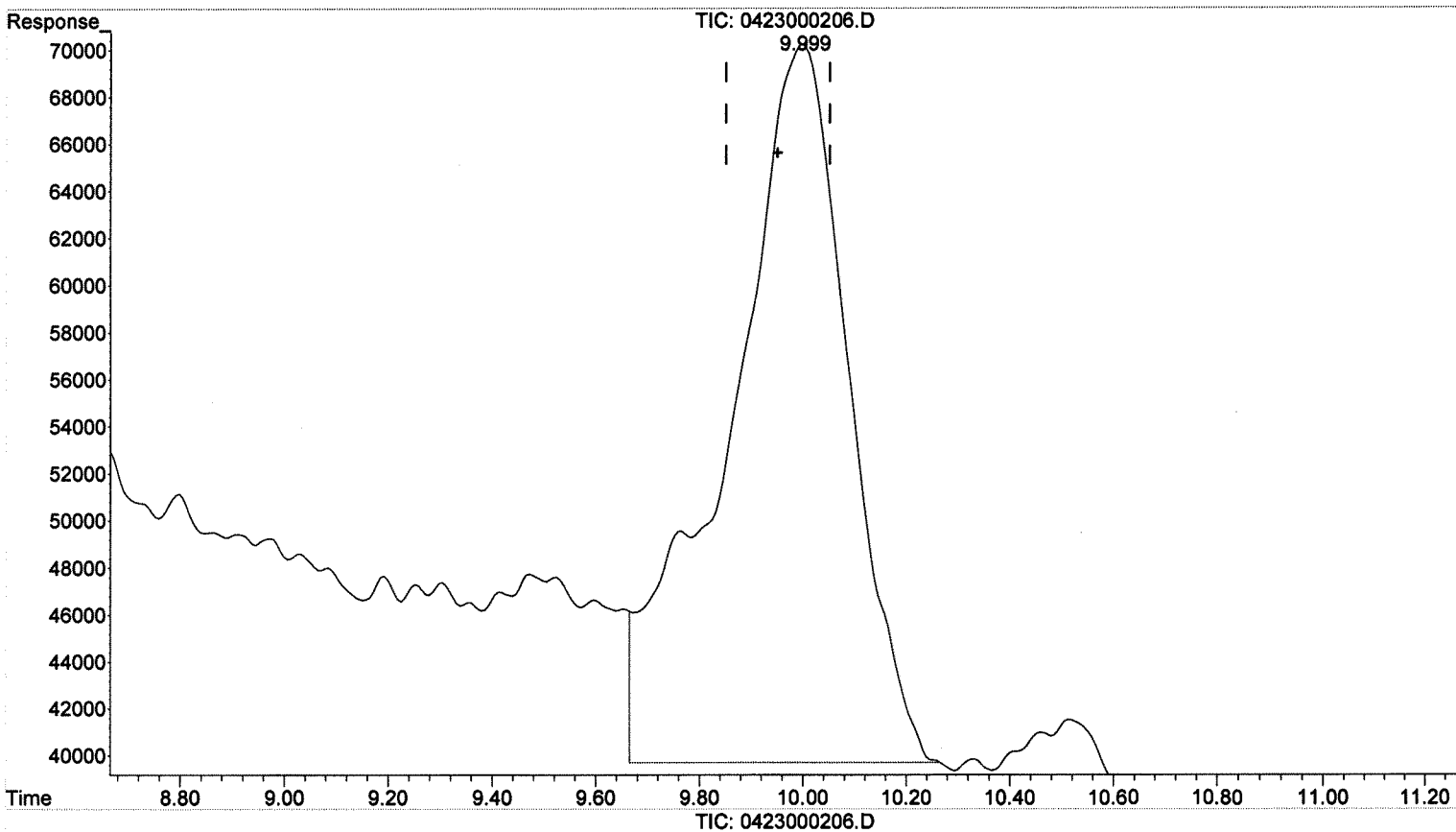
(2) RDX (T)  
7.185min 42.318 ug/L m  
response 965269

Manual Integration:  
After *forgot before*  
BLC  
05/01/15 *[Signature]*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000206.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 01:02:51  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:47 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.999min 10.873 ug/L  
response 492450

Manual Integration:  
Before

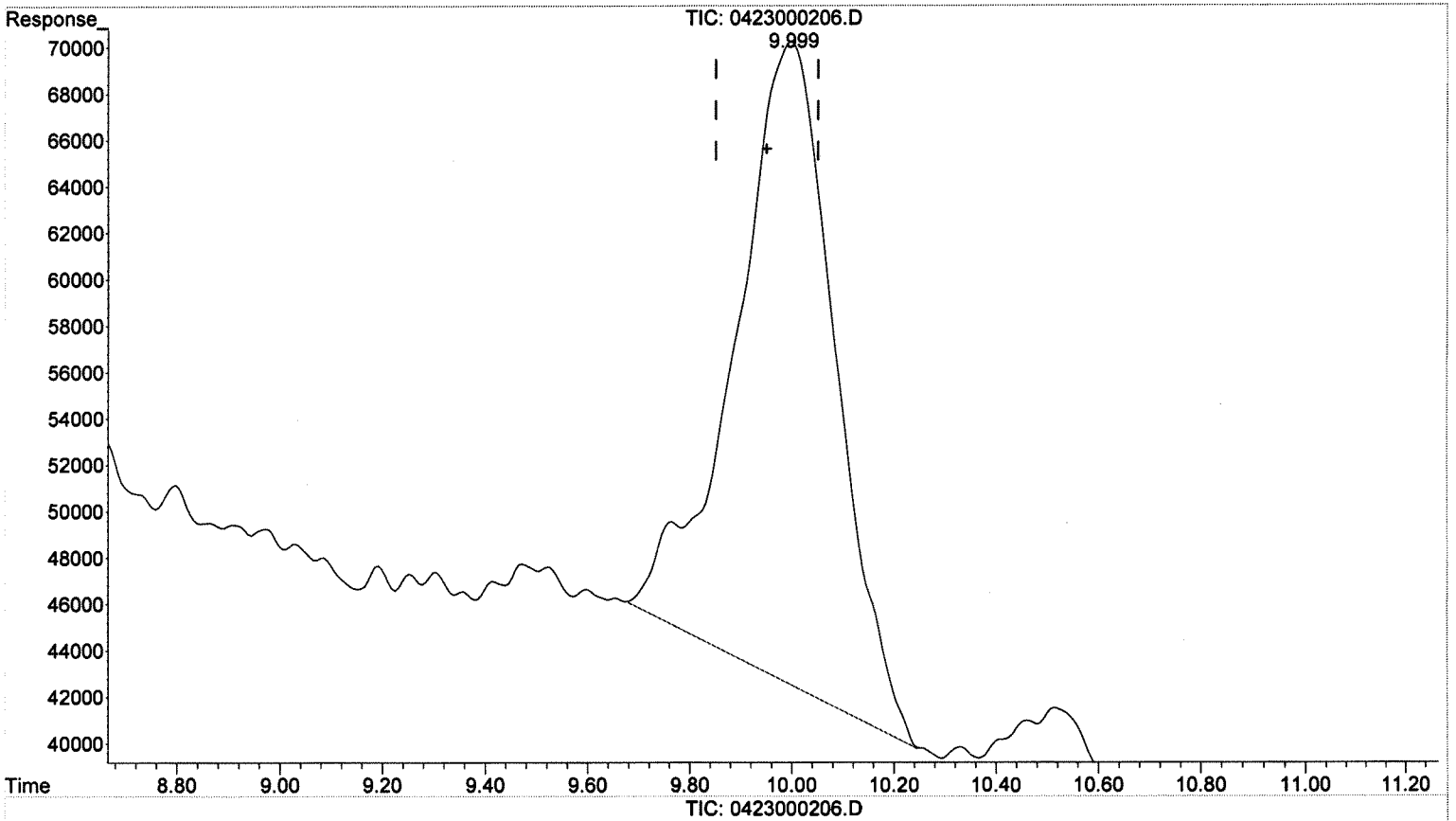
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000206.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 01:02:51  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:47 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



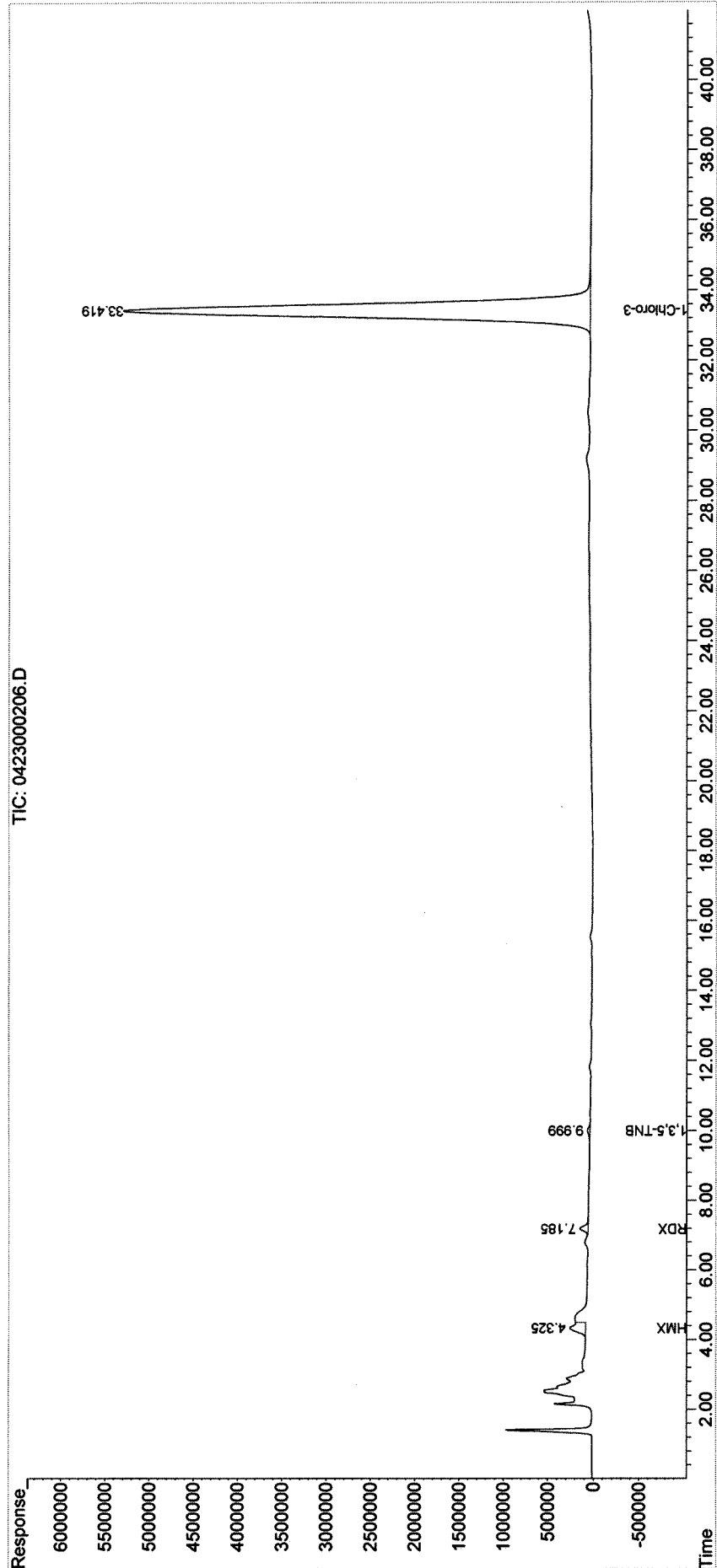
(3) 1,3,5-TNB (T)  
9.999min 8.330 ug/L m  
response 377296

Manual Integration:  
After  
BLC  
05/01/15 *la*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000206.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 01:02:51  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:22:48 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000206.D  
**Lab ID:** K1503815-001  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 01:02  
**Date Quantitated:** 05/12/2015 09:06  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: lu 5/12/15

Secondary Review: QA 5.12.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000206.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 01:02	<b>Quant Date:</b> 05/12/2015 09:06
<b>Run Type:</b> SMPL	<b>Vial:</b> 53
<b>Lab ID:</b> K1503815-001	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 01	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427784	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	-	Rpt?
1-Chloro-3-nitrobenzene	33.42	-0.02	348421080	4,199	84	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0d		0.18	U	

**Prep Amount:** 1030 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000206.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 01:02:51  
 Operator : CFS  
 Sample : K1503815-001  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:06:45 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.419	348421080	4198.773 ug/L
Target Compounds			
1) T Nitroglycerin	0.000	0	N.D. ug/L
2) T PETN	0.000	0	N.D. ug/L d
-----			

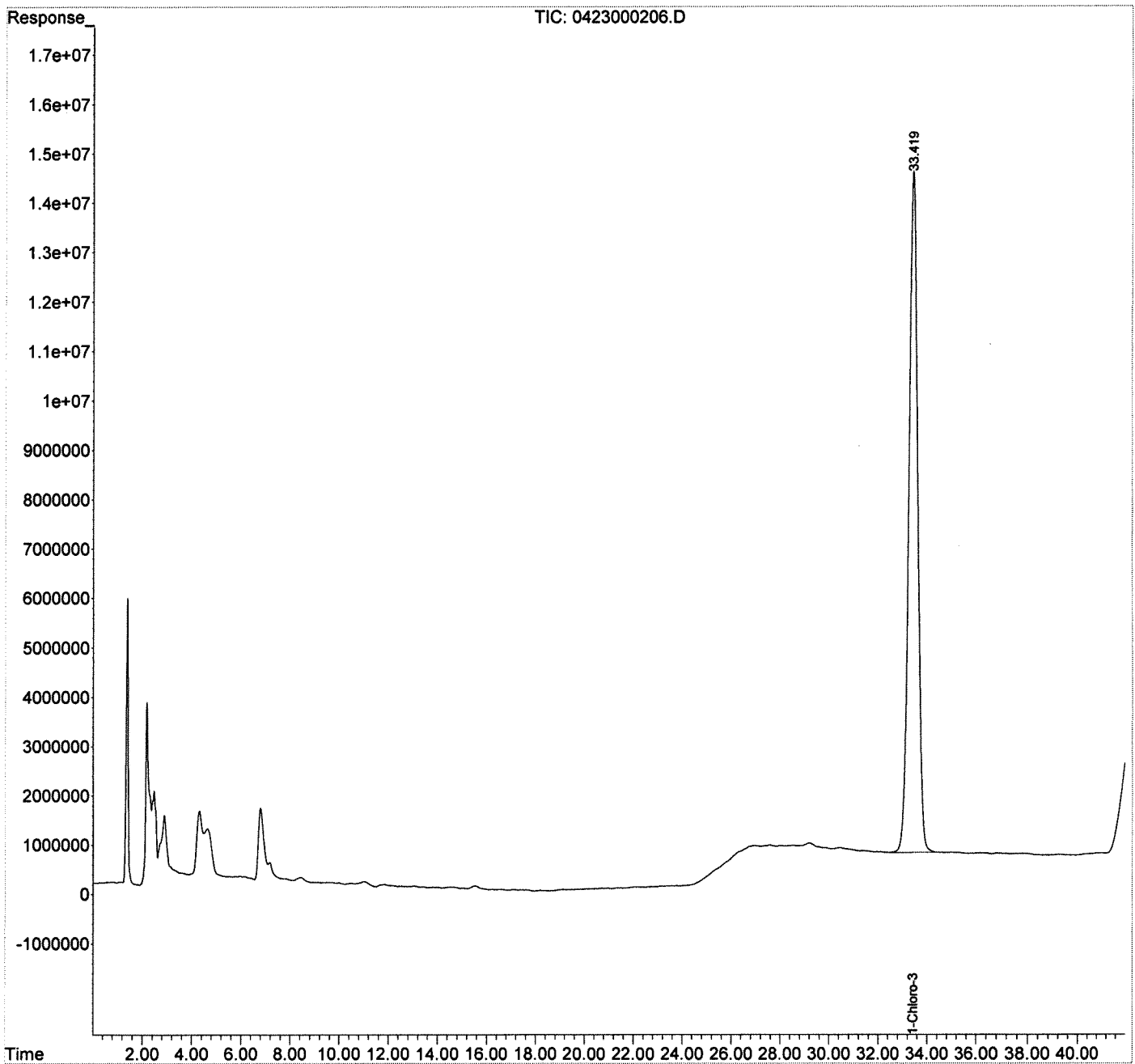
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000206.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 01:02:51  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:06:45 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000106.D  
 Signal(s) : DAD1A.ch  
 Acq On : 21-Apr-2015, 23:20:10  
 Operator : CFS  
 Sample : K1503815-001  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 12:47:27 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

1030mL → 4mL

Sx  
 conc  
 (ug/L)

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
11) S 1-Chloro-3-Nitrobenzene	32.500	125930145	4566.714 ug/L
Target Compounds			
1) T HMX	6.084	192694	11.871 ug/L m
2) T RDX	7.104	866374	44.107 ug/L
3) T Nitrobenzene	0.000	0	N.D. ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D. ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D. ug/L
6) T 2-NT	0.000	0	N.D. ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D. ug/L
8) T 3-NT	0.000	0	N.D. ug/L
9) T 1,3-DNB	0.000	0	N.D. ug/L
10) T 4-NT	0.000	0	N.D. ug/L
12) T 2,6-DNT	0.000	0	N.D. ug/L
13) T 2,4-DNT	53.012f	7292812	128.744 ug/L NT
14) T Tetryl	0.000	0	N.D. ug/L
15) T 1,3,5-TNB	0.000	0	N.D. ug/L
16) T 2,4,6-TNT	0.000	0	N.D. ug/L

.046 J  
 .017 C

(f)=RT Delta > 1/2 Window

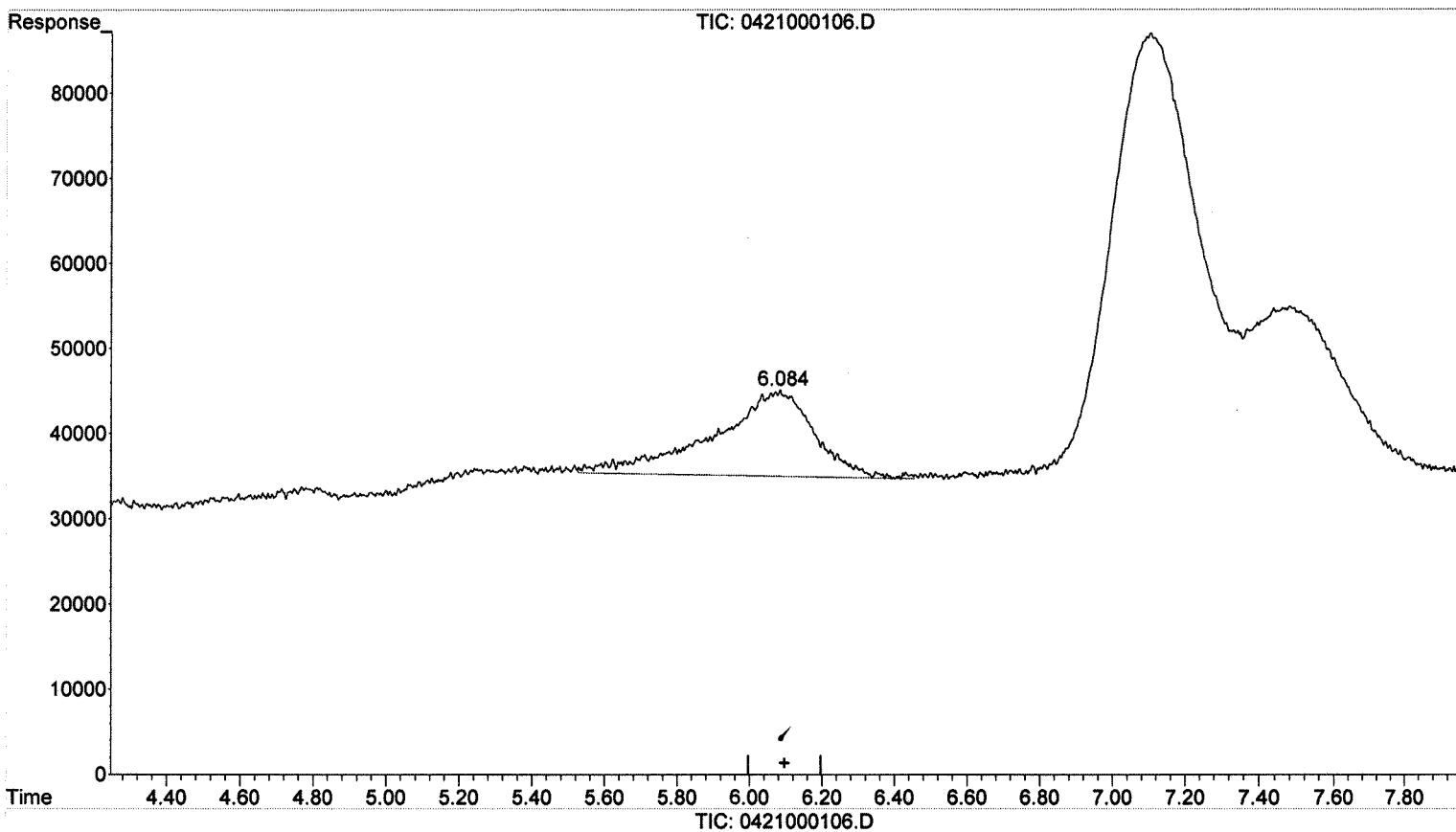
(m)=manual int.

In 5/22/15

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000106.D  
Signal(s) : DAD1A.ch  
Acq On : 21-Apr-2015, 23:20:10  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:42 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)  
6.084min 11.871 ug/L m  
response 192694

Manual Integration:  
After  
MP  
05/05/15

(+) = Expected Retention Time

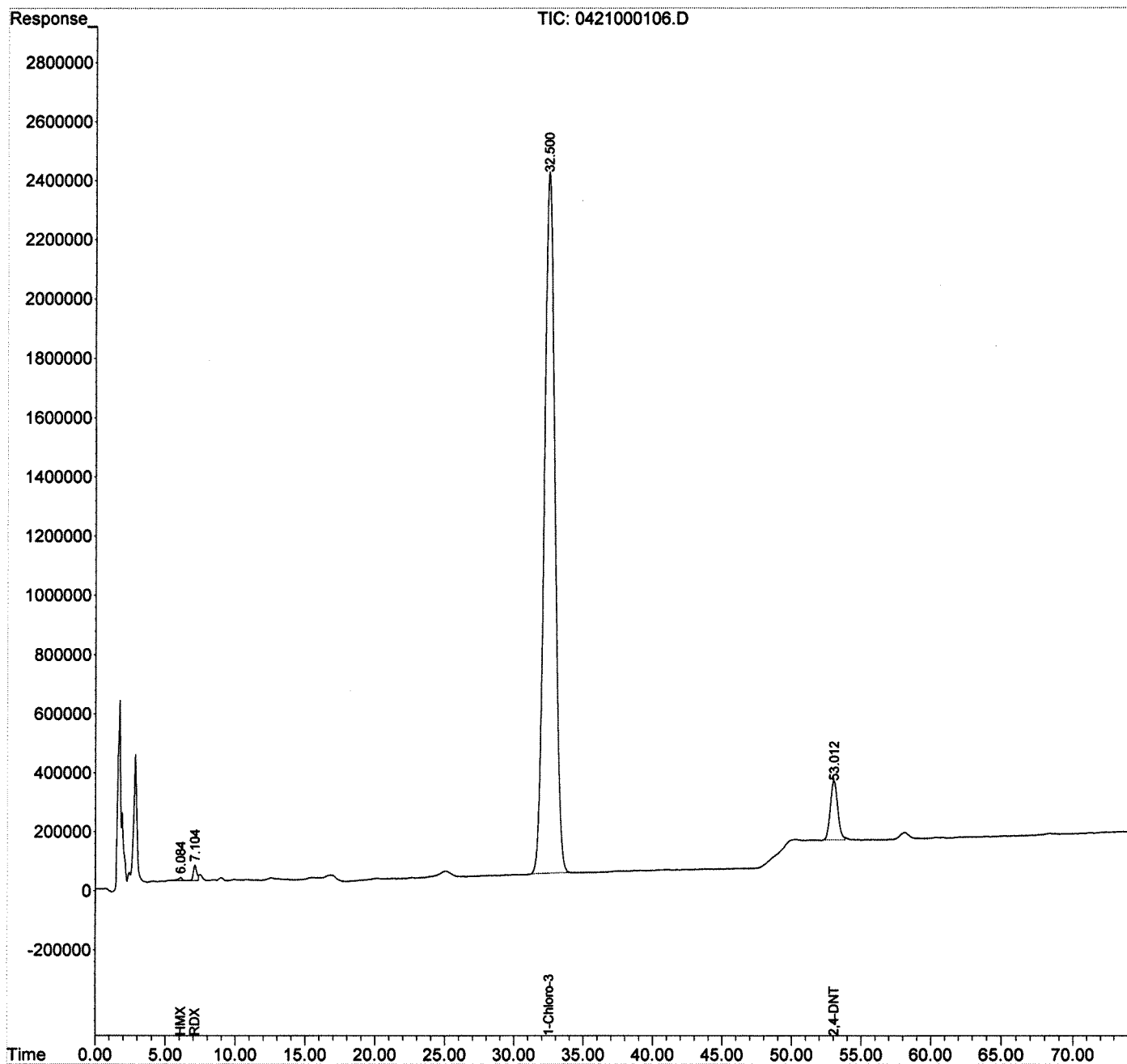




Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000106.D  
Signal(s) : DAD1A.ch  
Acq On : 21-Apr-2015, 23:20:10  
Operator : CFS  
Sample : K1503815-001  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 12:47:27 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000207.D  
**Lab ID:** K1503815-002  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 02:13  
**Date Quantitated:** 05/01/2015 13:24  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank	HMX	0.58	NA	0.10	confirm

Primary Review: LA 5/5/15  
WJM 5/5/15

Secondary Review: QA 5/12/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\254\0423000207.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 02:13	<b>Quant Date:</b>	05/01/2015 13:24
<b>Run Type:</b>	SMPL	<b>Vial:</b>	54
<b>Lab ID:</b>	K1503815-002	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	01	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/13/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503923	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427785	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>	J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.42	-0.02	137760213	4,483	90	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.34		2896427m	187.85	0.72	B J	I
RDX	7.17	0.02	2080190m	98.02	0.38	c	
1,3,5-Trinitrobenzene	9.98	0.03	327522m	7.23	0.050	U	
1,3-Dinitrobenzene			0		0.0085	U	
3,5-Dinitroaniline			0		0.013	U	
TETRYL			0d		0.042	U	
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0d		0.024	U	
4-Amino-2,6-dinitrotoluene			0		0.016	U	
2-Amino-4,6-dinitrotoluene			0d		0.0089	U	
2,6-Dinitrotoluene			0d		0.054	U	
2,4-Dinitrotoluene			0		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000207.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 02:13:36  
 Operator : CFS  
 Sample : K1503815-002  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:24:45 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.416	137760213	4483.291	ug/L
Target Compounds				
1) T HMX	4.336	2896427	187.853	ug/L m
2) T RDX	7.170	2080190	98.020	ug/L m
3) T 1,3,5-TNB	9.983	327522	7.232	ug/L m
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L d
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L d
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L d
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

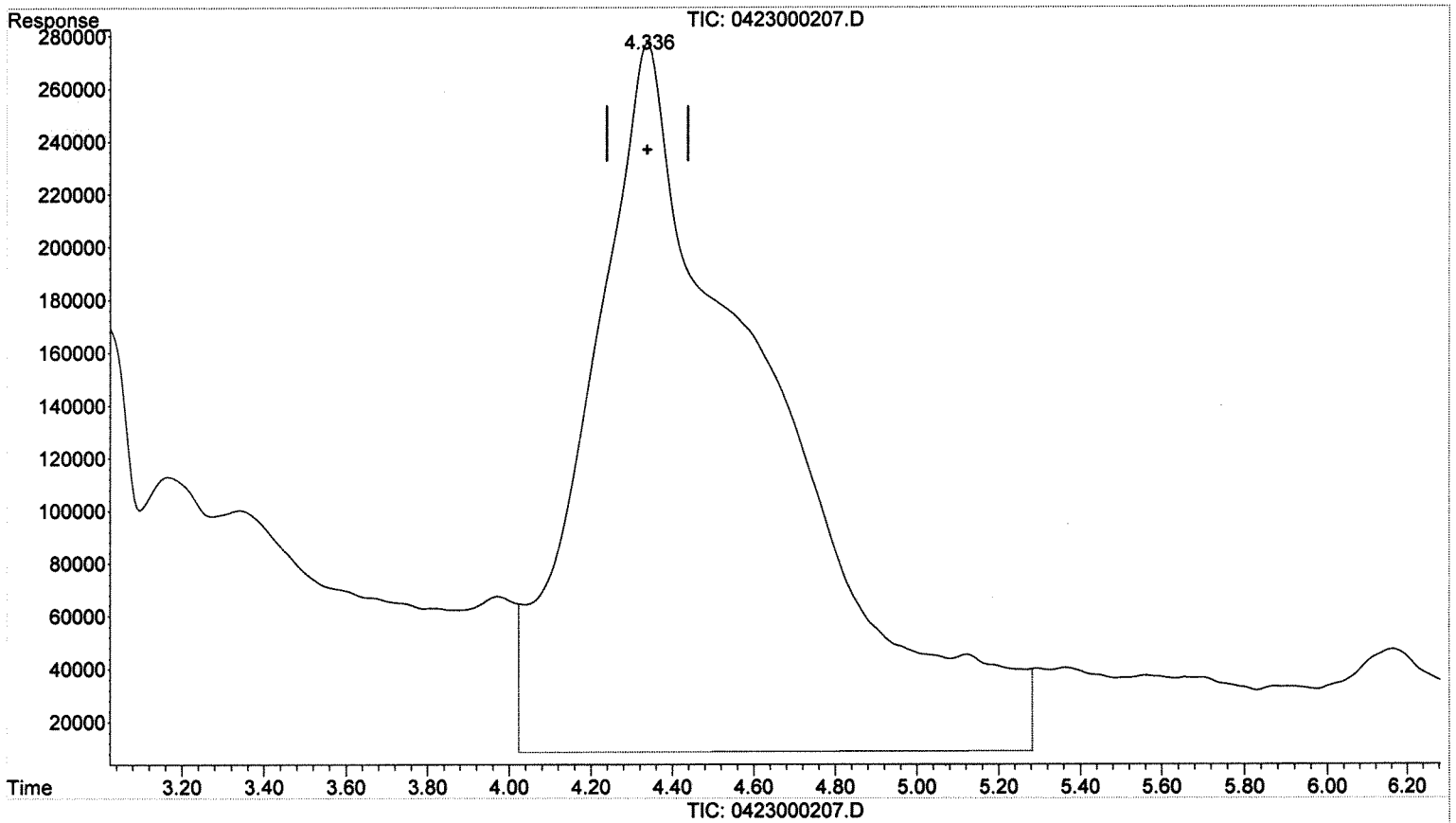
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000207.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 02:13:36  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:50 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.336min 531.789 ug/L  
response 8199446

Manual Integration:

Before

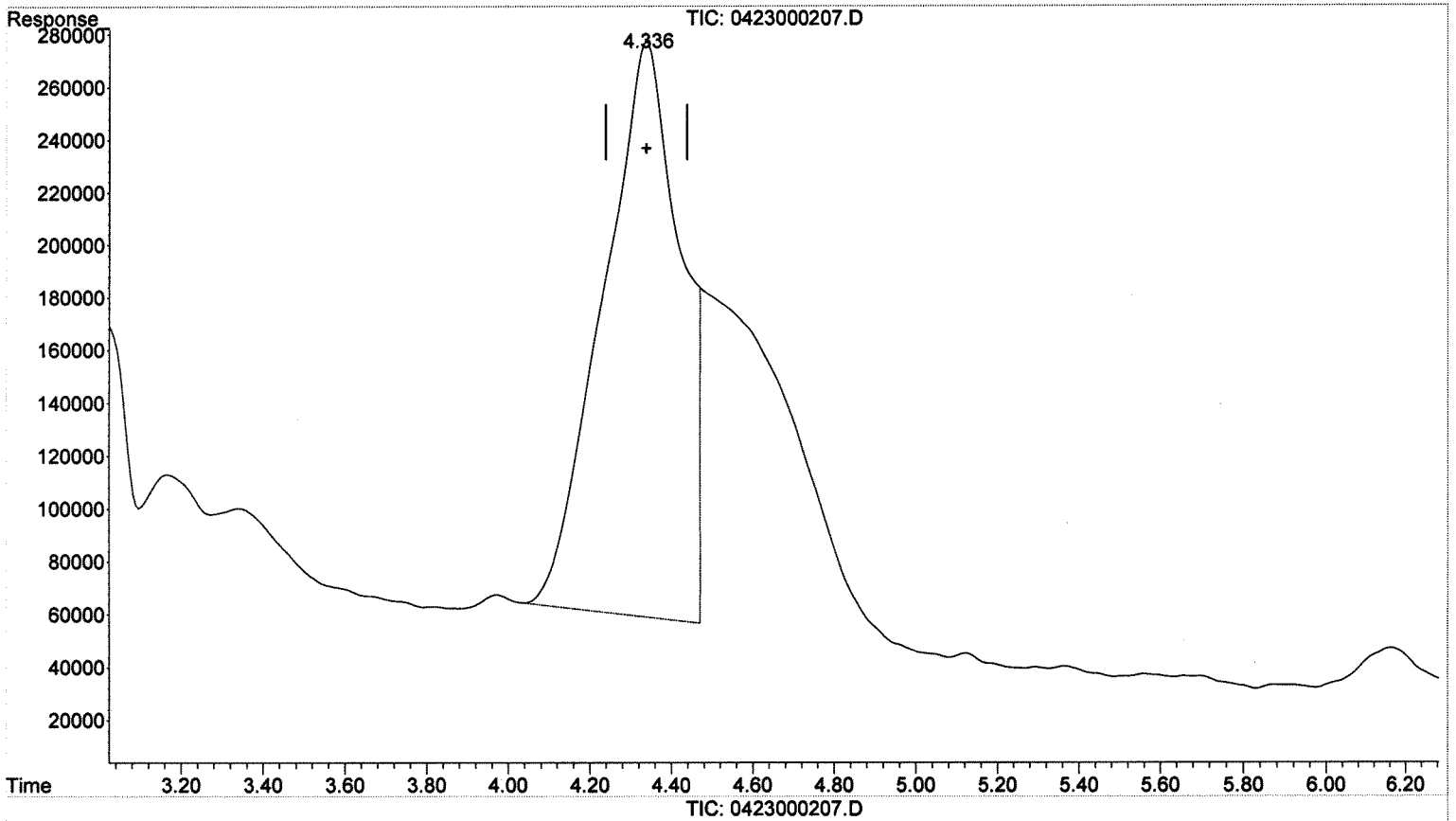
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000207.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 02:13:36  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:50 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



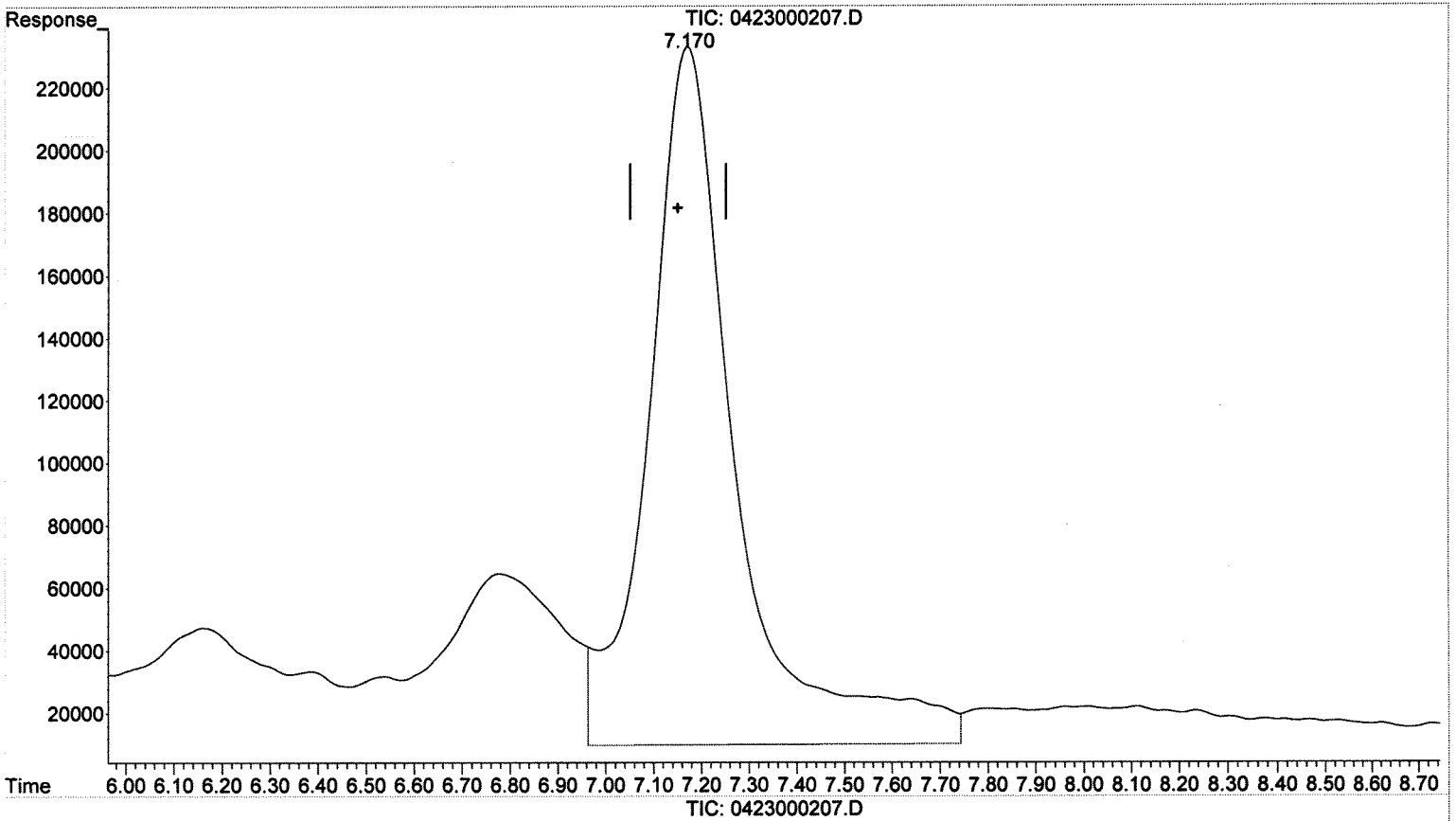
(1) HMX (T)  
4.336min 187.853 ug/L m  
response 2896427

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000207.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 02:13:36  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:50 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.170min 135.267 ug/L  
response 2825804

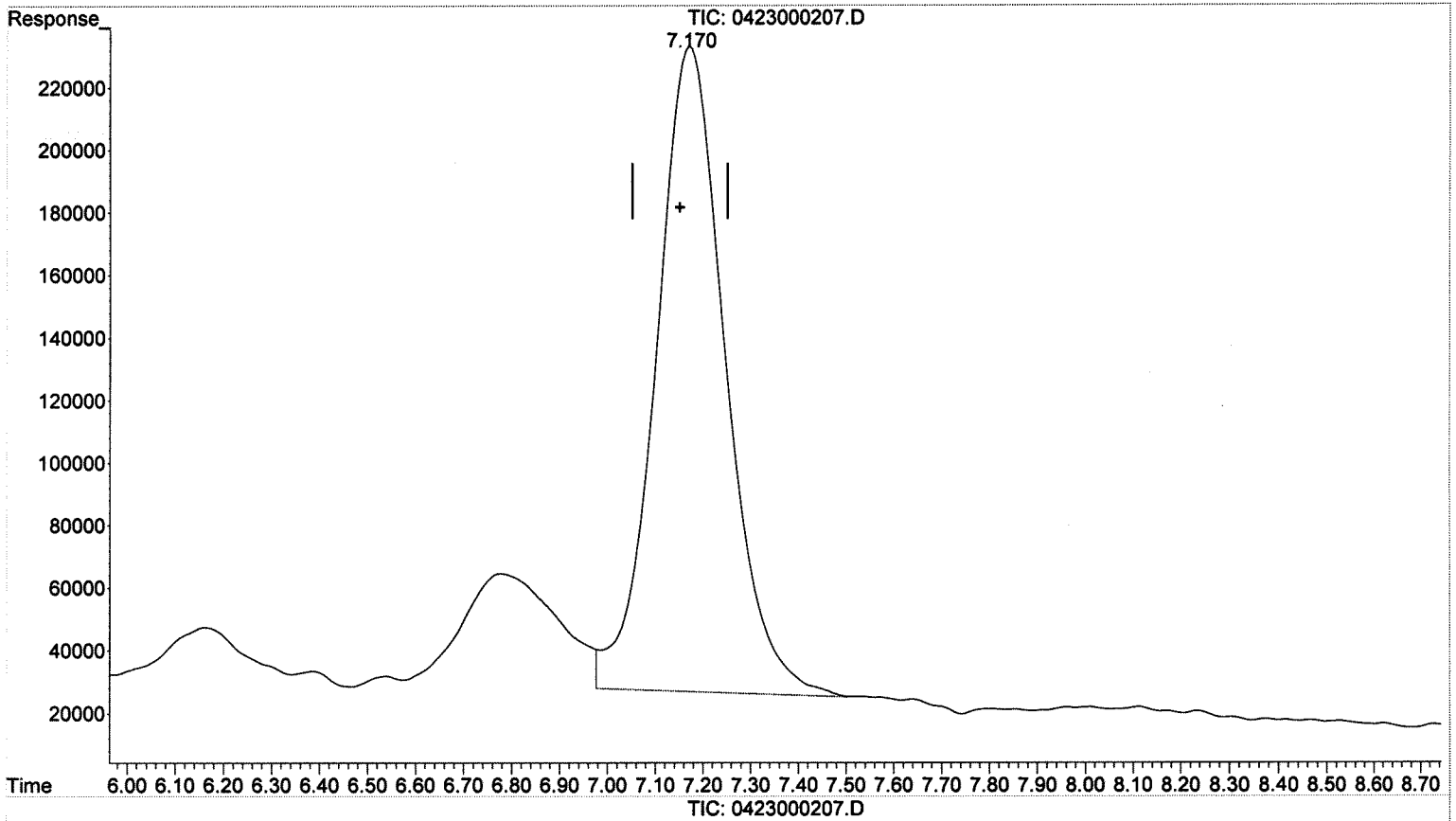
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000207.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 02:13:36  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:50 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.170min 98.020 ug/L m  
response 2080190

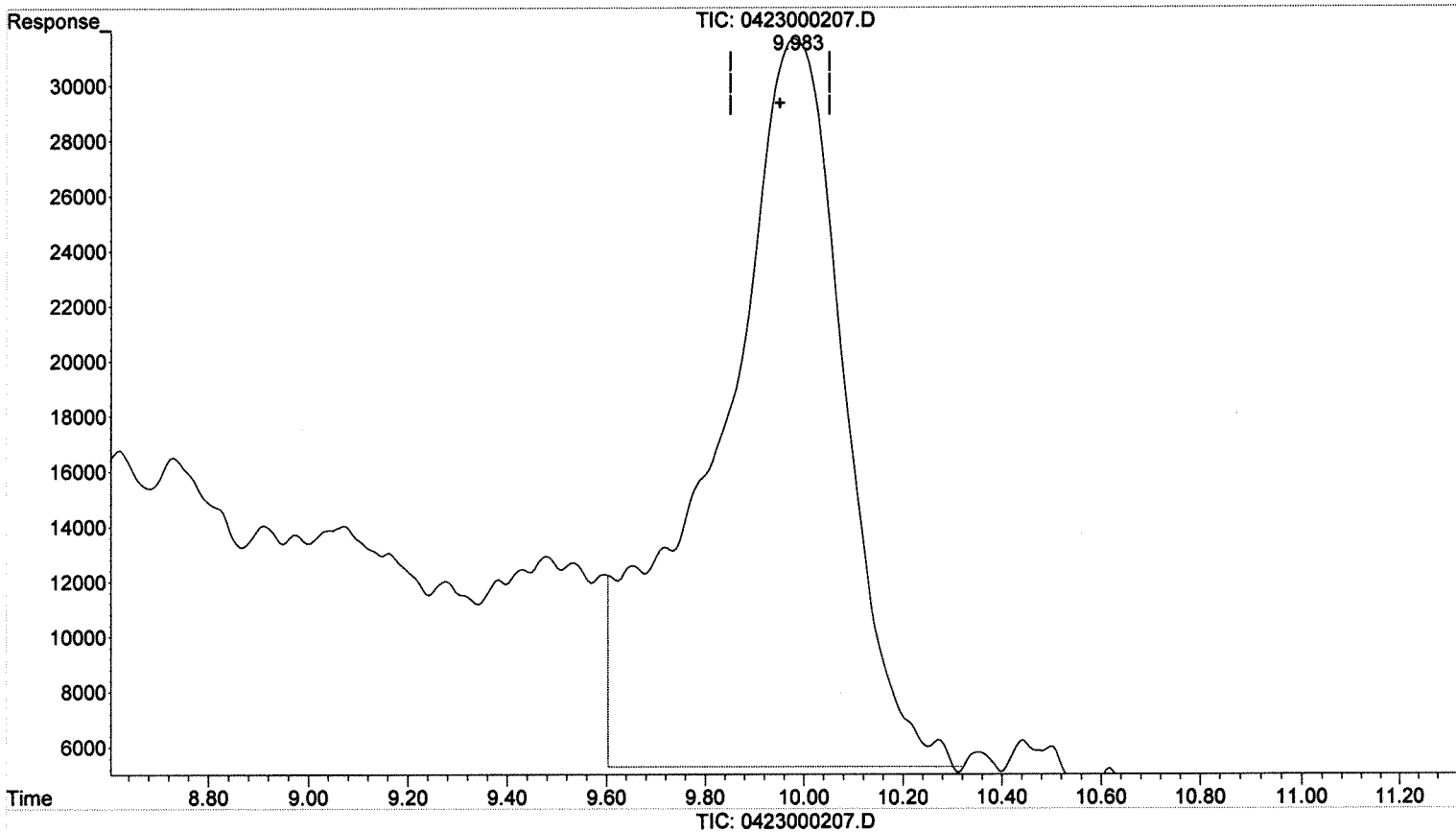
Manual Integration:  
After  
BLC  
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000207.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 02:13:36  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:50 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.983min 10.423 ug/L  
response 472071

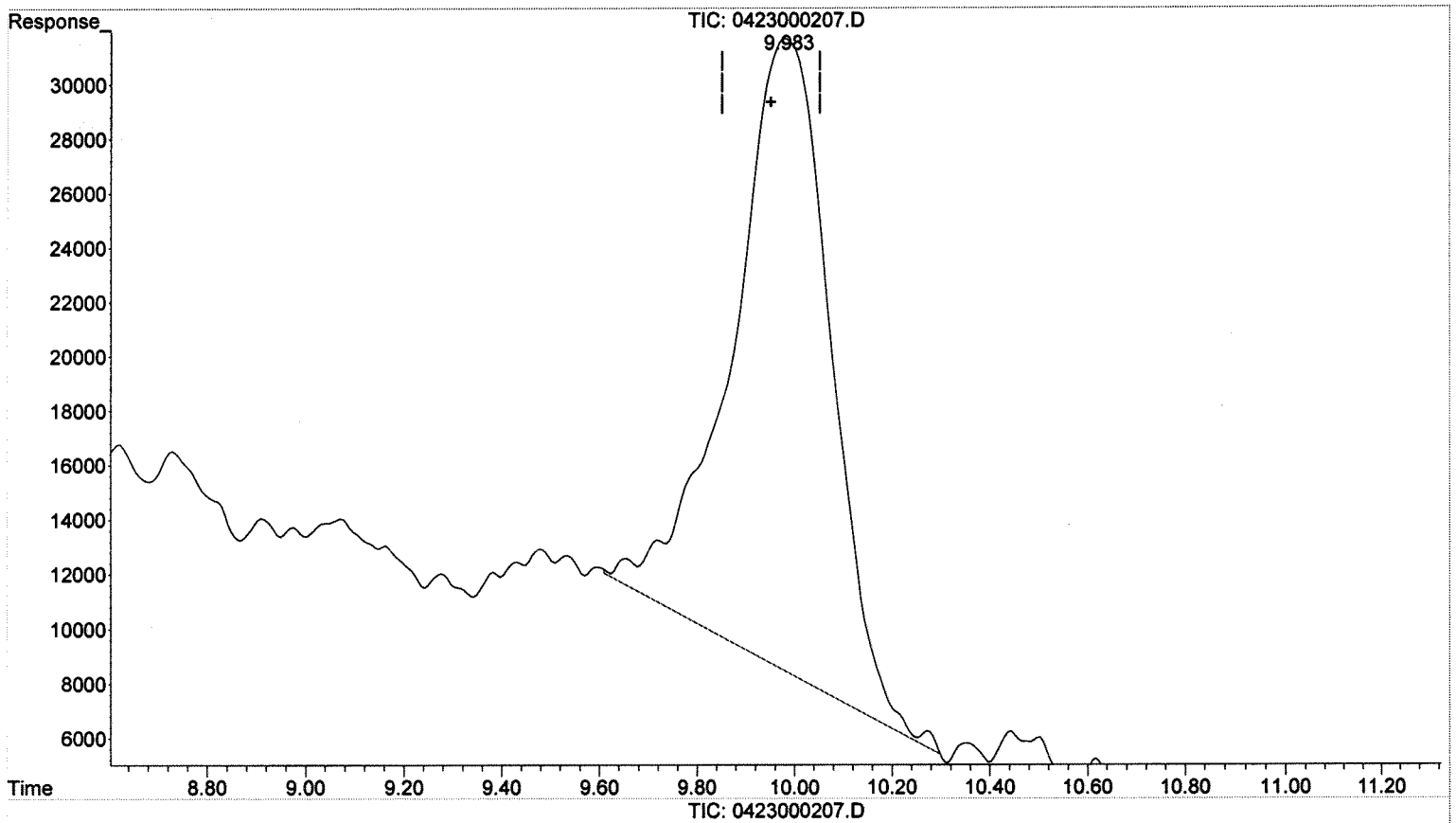
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000207.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 02:13:36  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:50 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



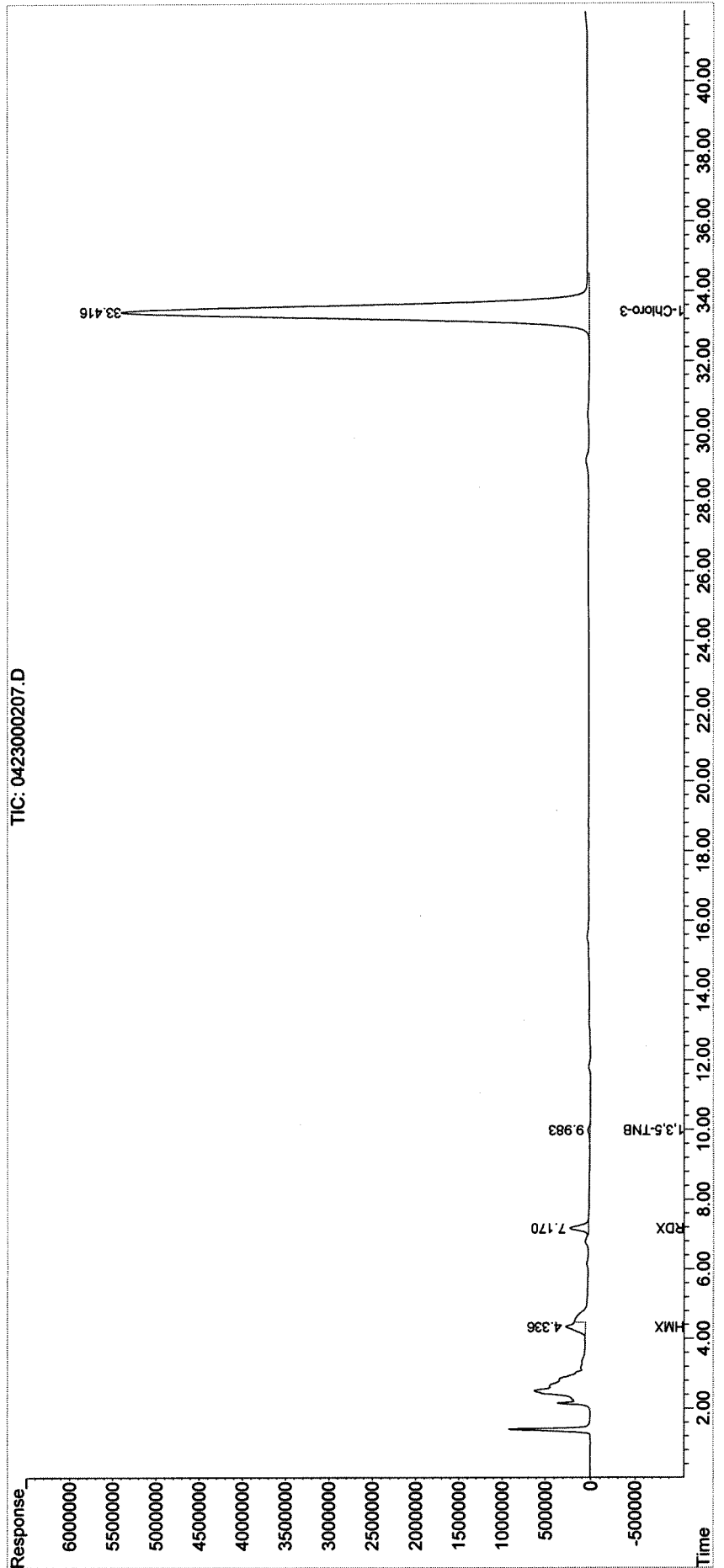
(3) 1,3,5-TNB (T)  
9.983min 7.232 ug/L m  
response 327522

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000207.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 02:13:36  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:24:45 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000207.D  
**Lab ID:** K1503815-002  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 02:13  
**Date Quantitated:** 05/12/2015 09:06  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review:     5/12/15    

Secondary Review:     5.12.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000207.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 02:13	<b>Quant Date:</b> 05/12/2015 09:06
<b>Run Type:</b> SMPL	<b>Vial:</b> 54
<b>Lab ID:</b> K1503815-002	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 01	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427785	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.42	-0.02	357979649	4,314	86	23-98 OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0d		0.39	U	
Pentaerythritol Tetranitrate			0		0.18	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000207.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 02:13:36  
 Operator : CFS  
 Sample : K1503815-002  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:06:51 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.416	357979649	4313.962 ug/L
Target Compounds			
1) T Nitroglycerin	0.000	0	N.D. ug/L d
2) T PETN	0.000	0	N.D. ug/L
-----			

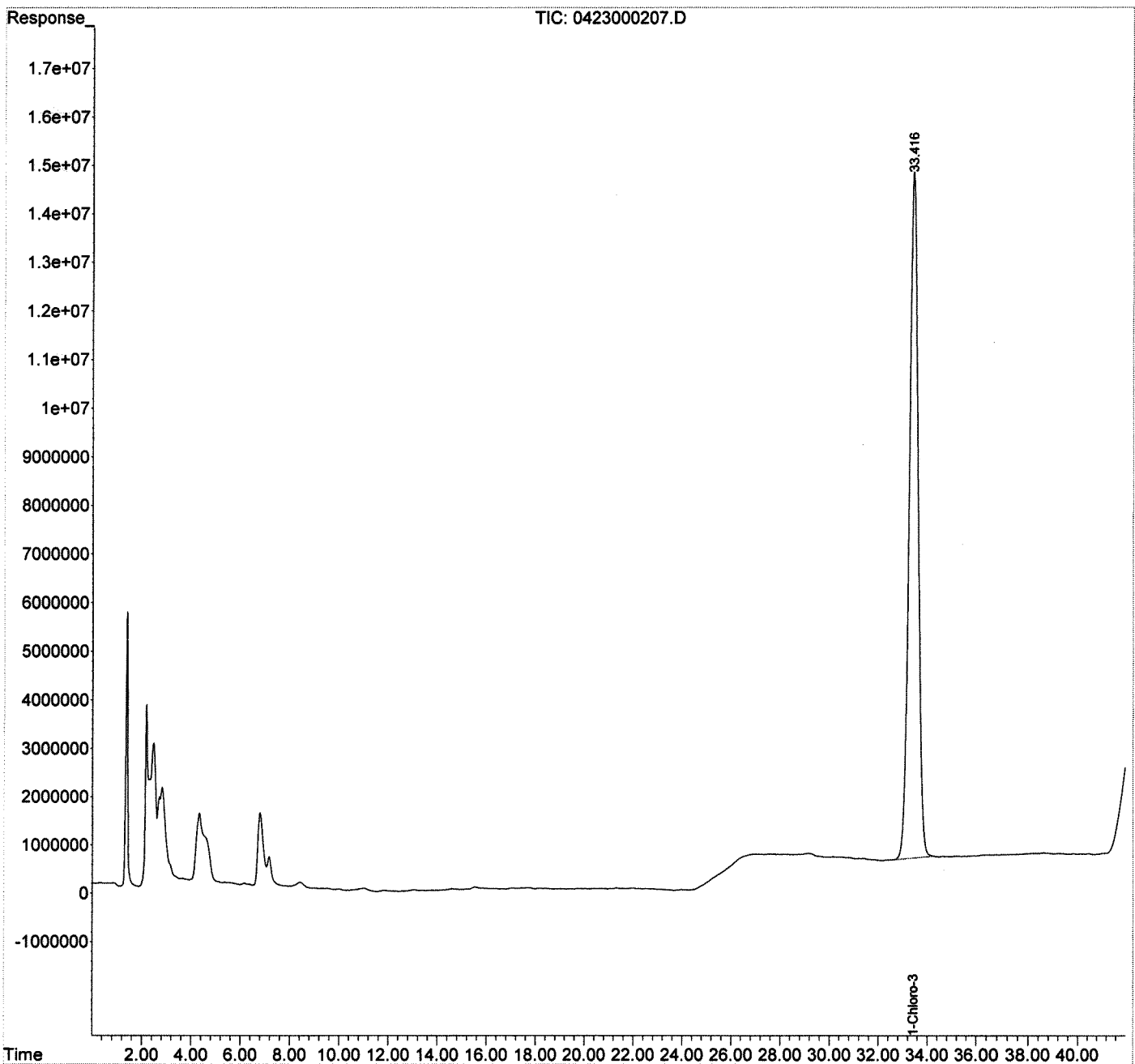
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000207.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 02:13:36  
 Operator : CFS  
 Sample : K1503815-002  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:06:51 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000107.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 00:56:27  
 Operator : CFS  
 Sample : K1503815-002  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 13:04:07 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

1040mL → 4mL

5x  
 conc  
 (ug/L)

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
11) S 1-Chloro-3-Nitrobenzene	32.538	134224308	4867.492 ug/L
Target Compounds			
1) T HMX	6.085	541512	33.359 ug/L m
2) T RDX	7.112	2040765	103.894 ug/L
3) T Nitrobenzene	0.000	0	N.D. ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D. ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D. ug/L
6) T 2-NT	0.000	0	N.D. ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D. ug/L
8) T 3-NT	0.000	0	N.D. ug/L
9) T 1,3-DNB	0.000	0	N.D. ug/L
10) T 4-NT	0.000	0	N.D. ug/L
12) T 2,6-DNT	0.000	0	N.D. ug/L
13) T 2,4-DNT	0.000	0	N.D. ug/L
14) T Tetryl	0.000	0	N.D. ug/L
15) T 1,3,5-TNB	0.000	0	N.D. ug/L
16) T 2,4,6-TNT	0.000	0	N.D. ug/L

. 0.13 J  
 . 0.40 C

(f)=RT Delta > 1/2 Window

(m)=manual int.

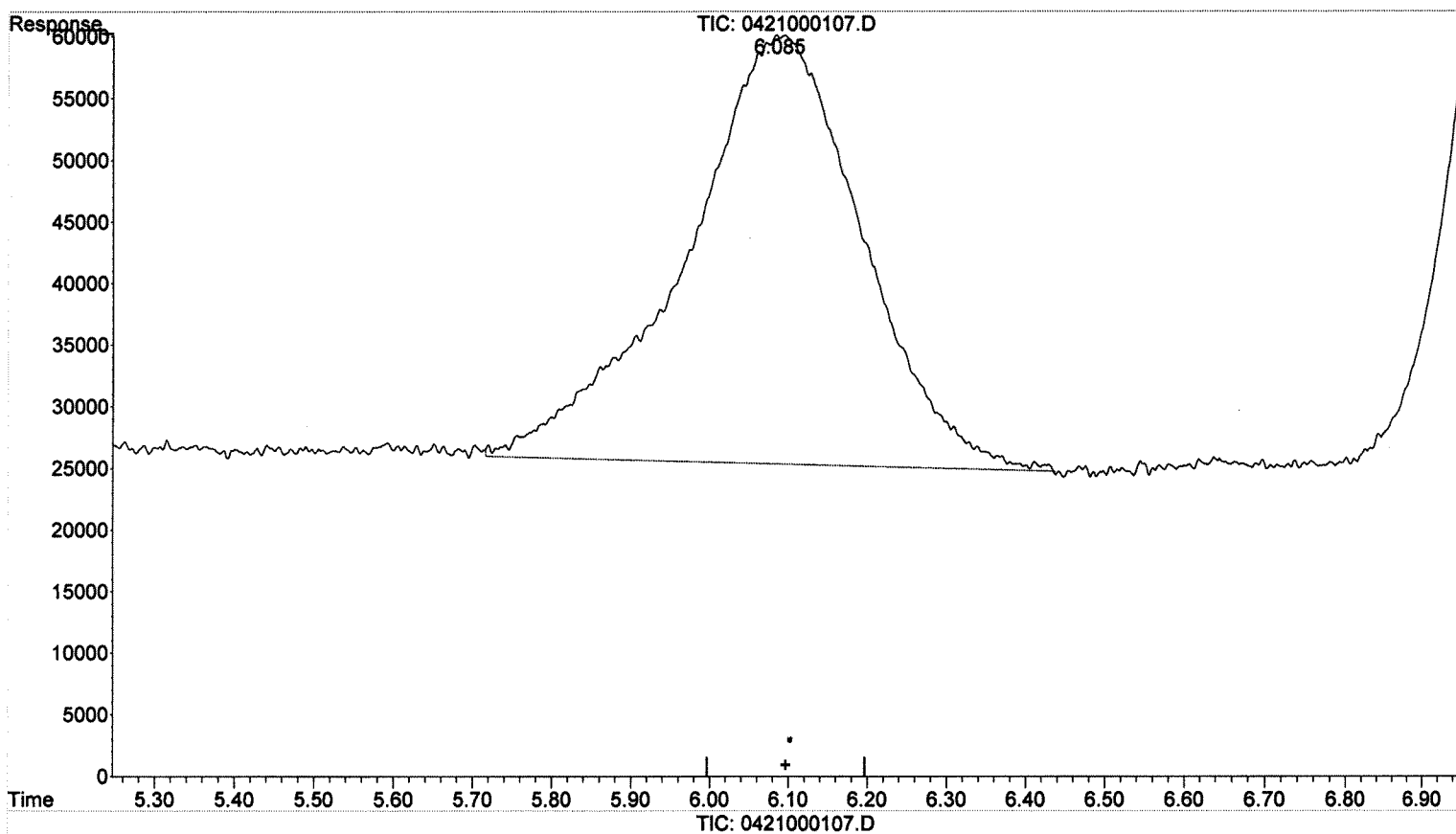
lev 5/5/15



Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000107.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 00:56:27  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:45 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)  
6.085min 33.359 ug/L m  
response 541512

Manual Integration:  
After  
MP  
05/05/15

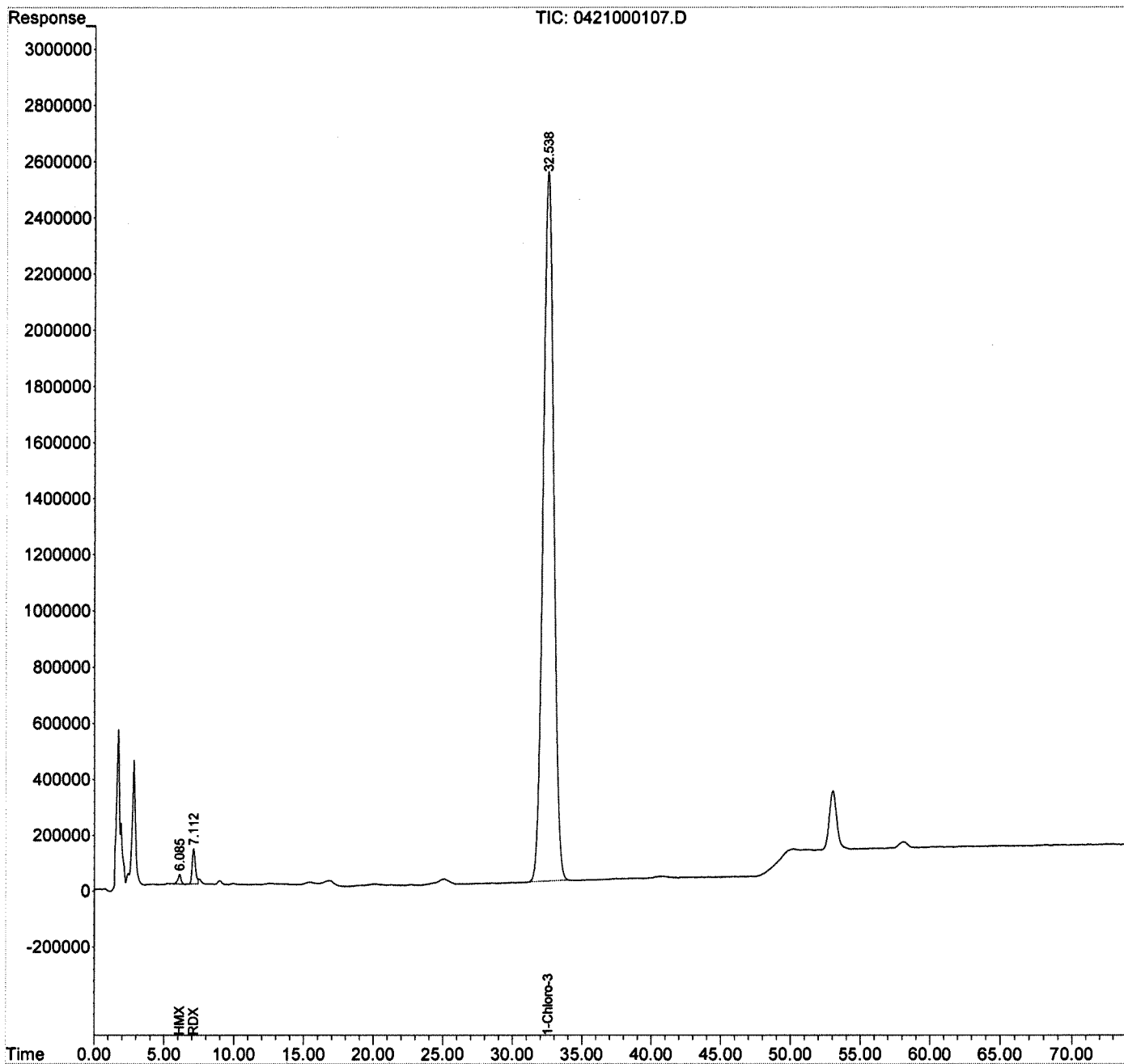
*llc*

(+) = Expected Retention Time

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000107.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 00:56:27  
Operator : CFS  
Sample : K1503815-002  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 13:04:07 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000208.D  
**Lab ID:** K1503815-003  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 03:24  
**Date Quantitated:** 05/01/2015 13:45  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank	HMX	0.58	NA	0.10	cont: sm

Primary Review: llr 5/5/15

Secondary Review: QA 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000208.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 03:24	<b>Quant Date:</b> 05/01/2015 13:45
<b>Run Type:</b> SMPL	<b>Vial:</b> 55
<b>Lab ID:</b> K1503815-003	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 01	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427786	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
	<b>Method ID:</b> MJ1278
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.41	-0.03	140921783	4,586	92	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.29	-0.05	4775977m	309.75	1.3	Ui	
RDX	7.17	0.02	3641246	176.00	0.68	C	
1,3,5-Trinitrobenzene	9.98	0.03	291578m	6.44	0.050	U	
1,3-Dinitrobenzene			0d		0.0085	U	
3,5-Dinitroaniline			0		0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0		0.024	U	
4-Amino-2,6-dinitrotoluene			0d		0.016	U	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	
2,6-Dinitrotoluene			0		0.054	U	
2,4-Dinitrotoluene			0		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0d		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1030 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000208.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 03:24:23  
 Operator : CFS  
 Sample : K1503815-003  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:45:49 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
16) S 1-Chloro-3-Nitrobenzene	33.411	140921783	4586.181	ug/L
<b>Target Compounds</b>				
1) T HMX	4.291	4775977	309.754	ug/L m
2) T RDX	7.171	3641246	175.997	ug/L
3) T 1,3,5-TNB	9.978	291578	6.438	ug/L m
4) T 1,3-DNB	0.000	0	N.D.	ug/L d
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L d
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L d
15) T 3-NT	0.000	0	N.D.	ug/L

*- unresolved matrix interference.  
 5/5/15*

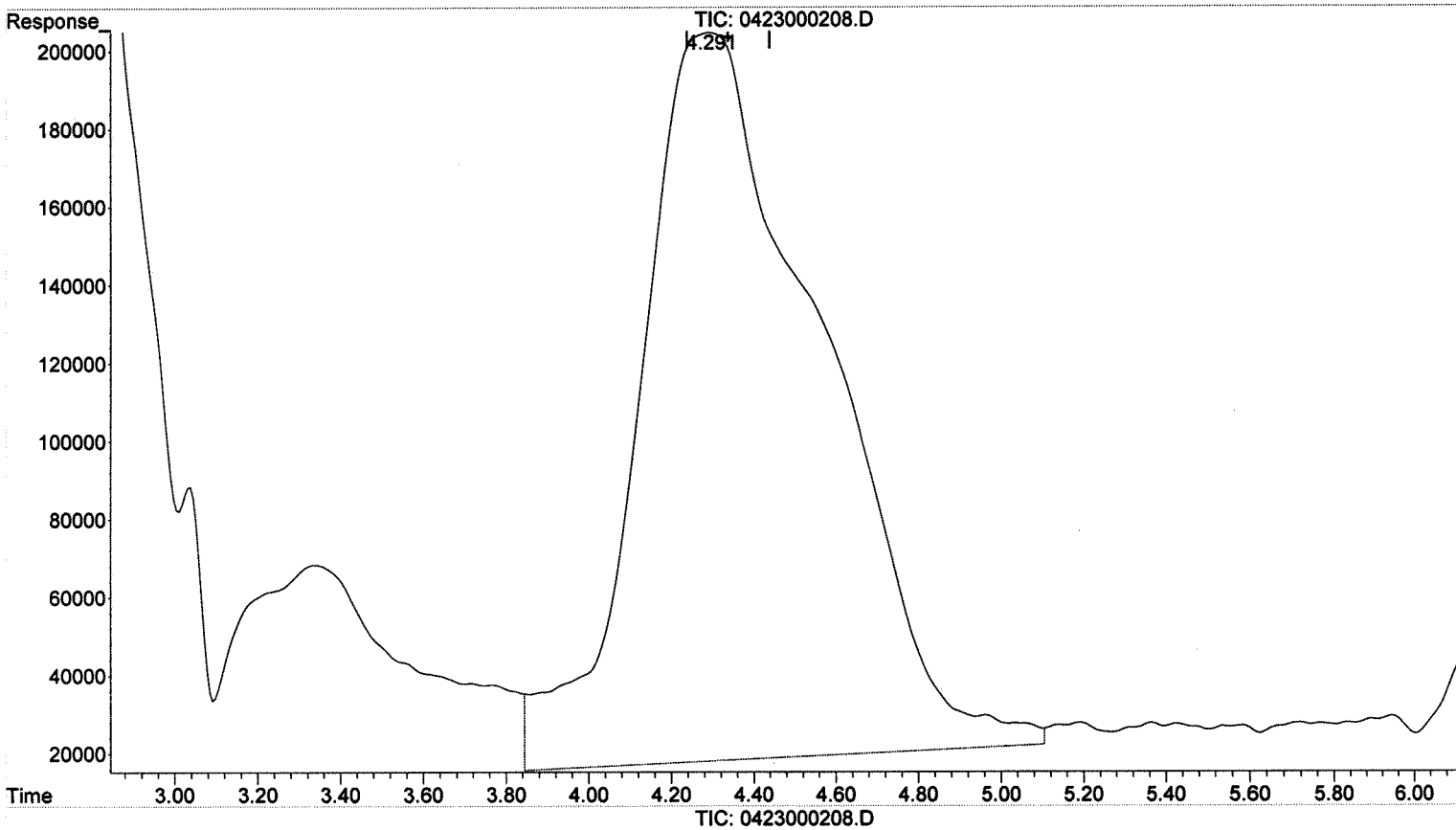
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000208.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 03:24:23  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:53 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.291min 372.025 ug/L  
response 5736113

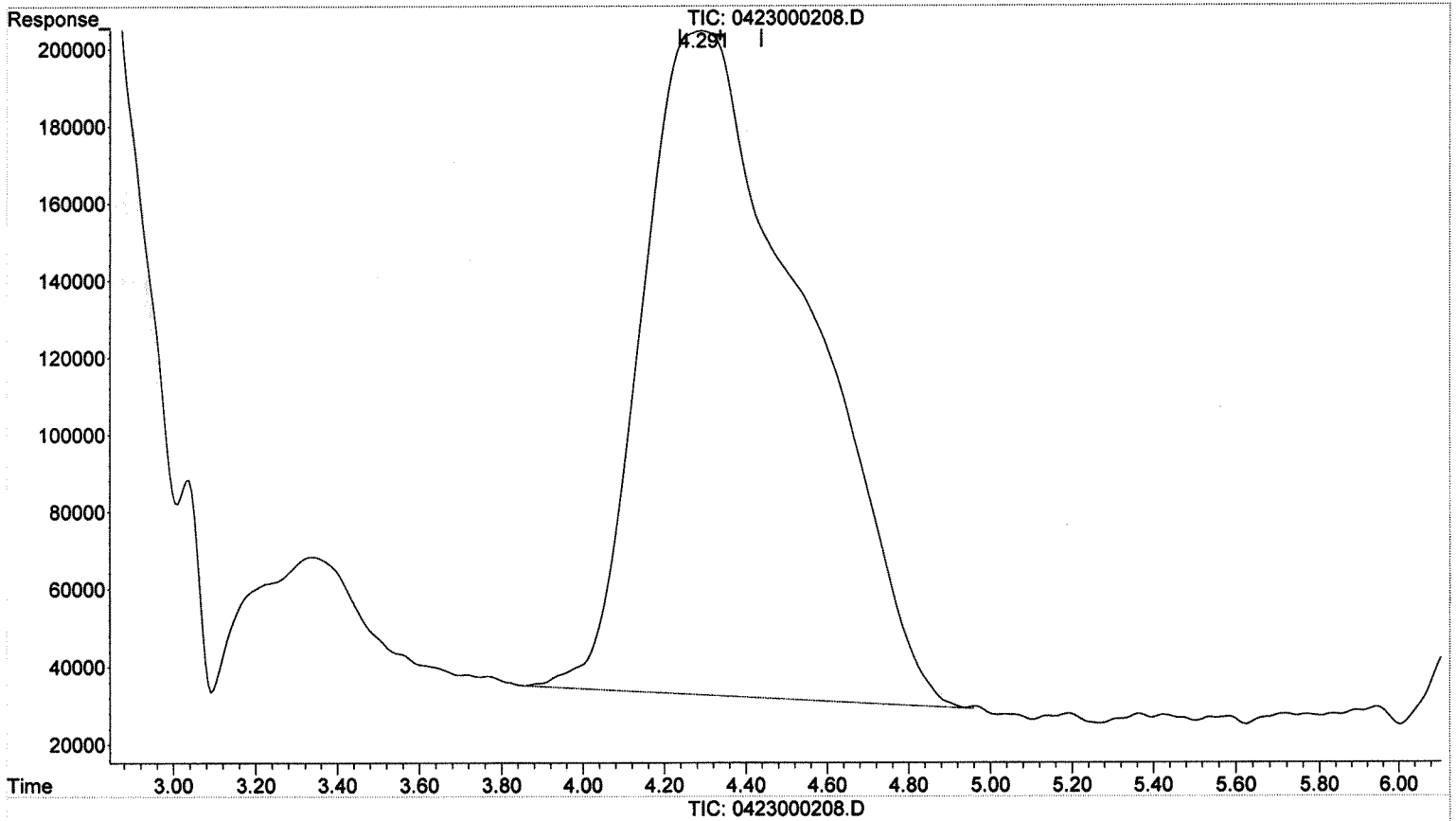
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000208.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 03:24:23  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:53 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.291min 309.754 ug/L m  
response 4775977

Manual Integration:

After

BLC

05/01/15

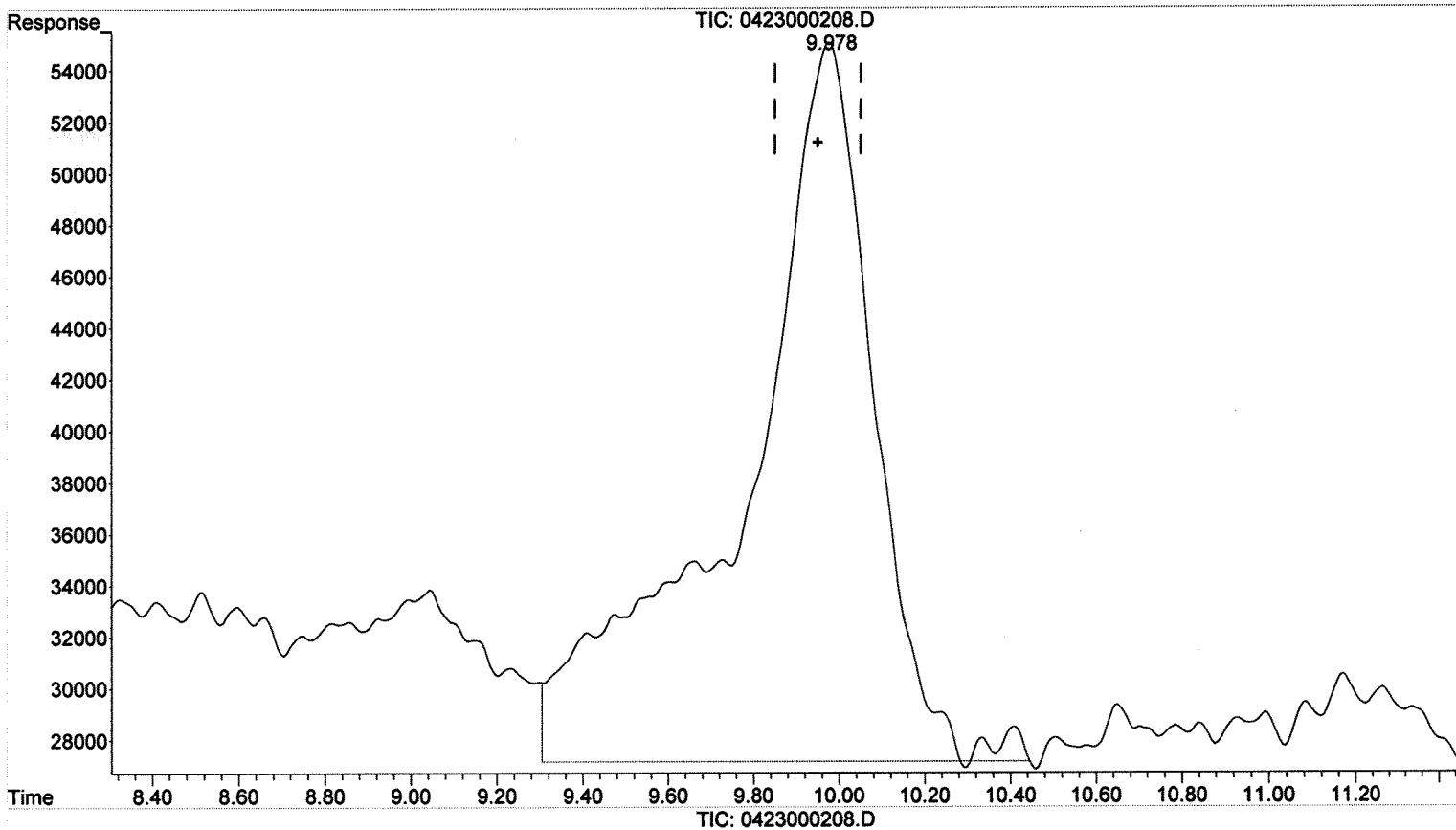
*flag*  
*pa*

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000208.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 03:24:23  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:53 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.978min 13.179 ug/L  
response 596878

Manual Integration:

Before

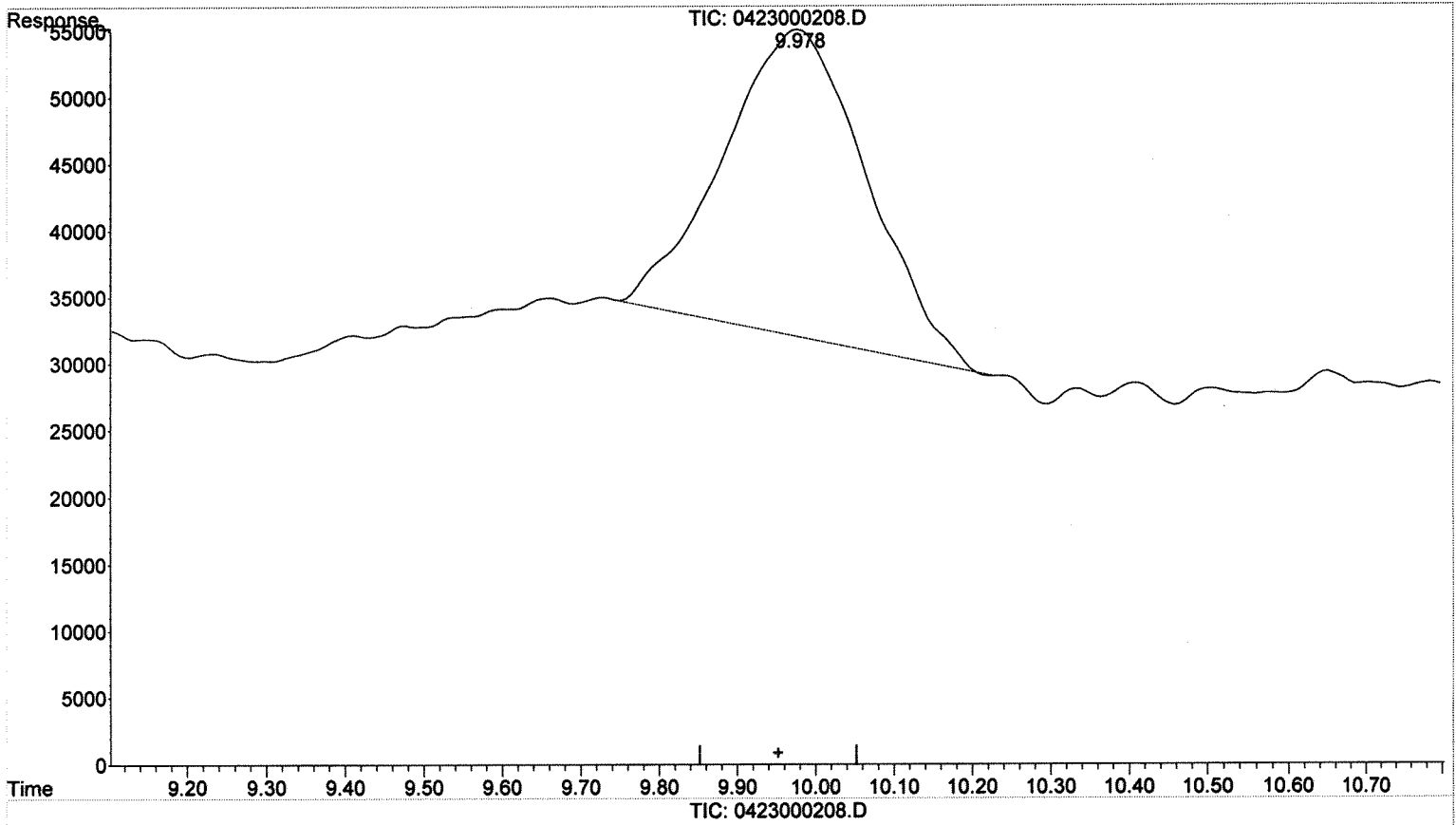
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000208.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 03:24:23  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:53 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



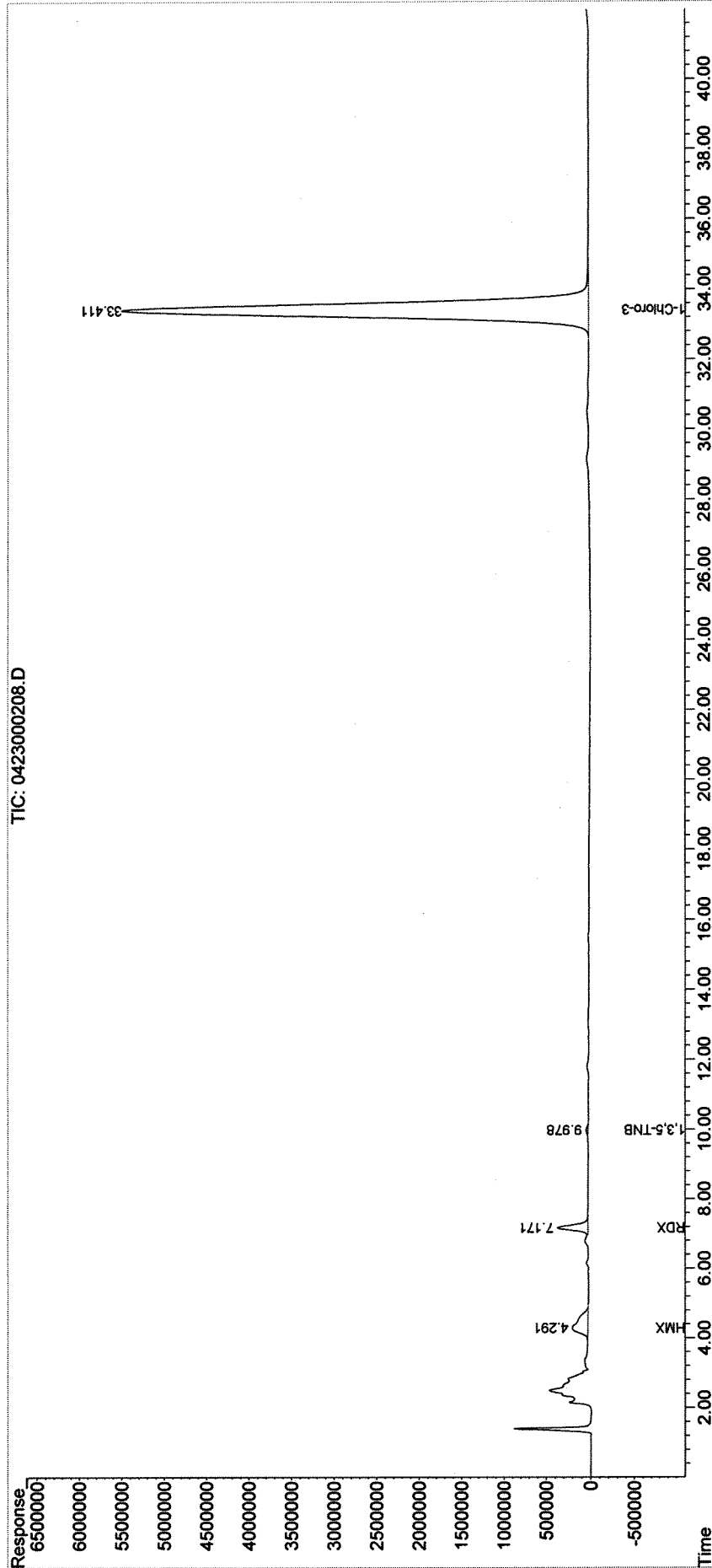
(3) 1,3,5-TNB (T)  
9.978min 6.438 ug/L m  
response 291578

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000208.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 03:24:23  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:45:49 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000208.D  
**Lab ID:** K1503815-003  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 03:24  
**Date Quantitated:** 05/12/2015 09:06  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: ll 5/12/15

Secondary Review: QA 5.12.15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\210\0423000208.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 03:24	<b>Quant Date:</b>	05/12/2015 09:06
<b>Run Type:</b>	SMPL	<b>Vial:</b>	55
<b>Lab ID:</b>	K1503815-003	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	01	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/13/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503922	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427786	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13892
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
<b>MB Ref:</b>	J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b>	MJ1278
		<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?	
1-Chloro-3-nitrobenzene	33.41	-0.03	368927598	4,446	89	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units:		Q	Rpt?
				Solution Conc	Final Conc		
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0d		0.18	U	

**Prep Amount:** 1030 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000208.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 03:24:23  
 Operator : CFS  
 Sample : K1503815-003  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:06:59 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	33.411	368927598	4445.894	ug/L
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L d
-----				

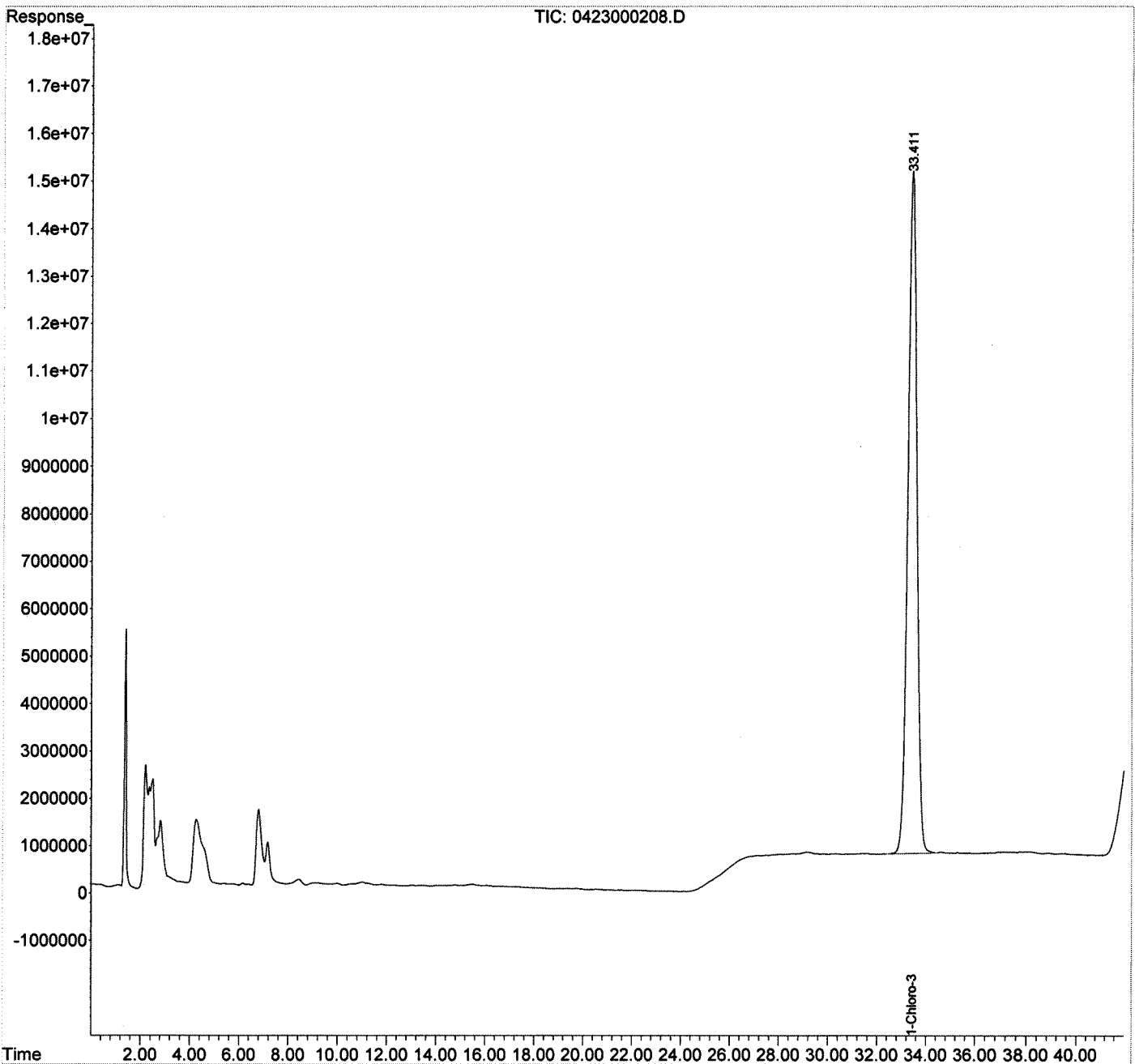
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000208.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 03:24:23  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:06:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000108.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 02:32:45  
 Operator : CFS  
 Sample : K1503815-003  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 13:26:05 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

*1030mL -> 4mL*

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
11) S 1-Chloro-3-Nitrobenzene	32.538	137214934	4975.944	ug/L
<b>Target Compounds</b>				
1) T HMX	5.968f	282959	17.431	ug/L m
2) T RDX	7.104	3581091	182.312	ug/L m
3) T Nitrobenzene	0.000	0	N.D.	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	53.040f	7434615	131.248	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

*Sx  
(ug/L)*

*RRM  
51515  
~~0.07~~ 0.068  
0.71*

(f)=RT Delta > 1/2 Window

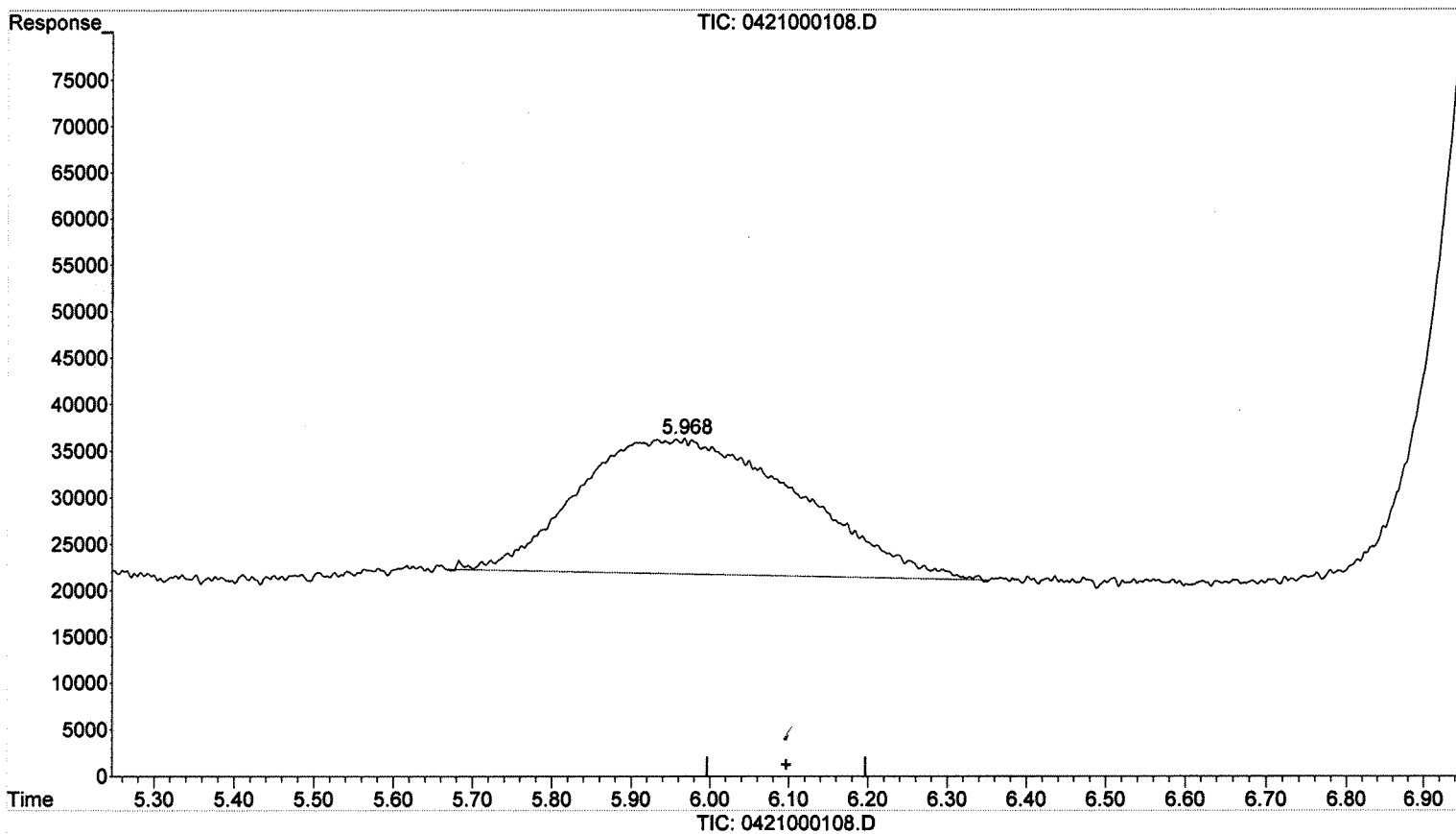
(m)=manual int.

*per 51515*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000108.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 02:32:45  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:47 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)  
5.968min 17.431 ug/L m  
response 282959

Manual Integration:

After

MP

05/05/15

*Hay*  
*Me*

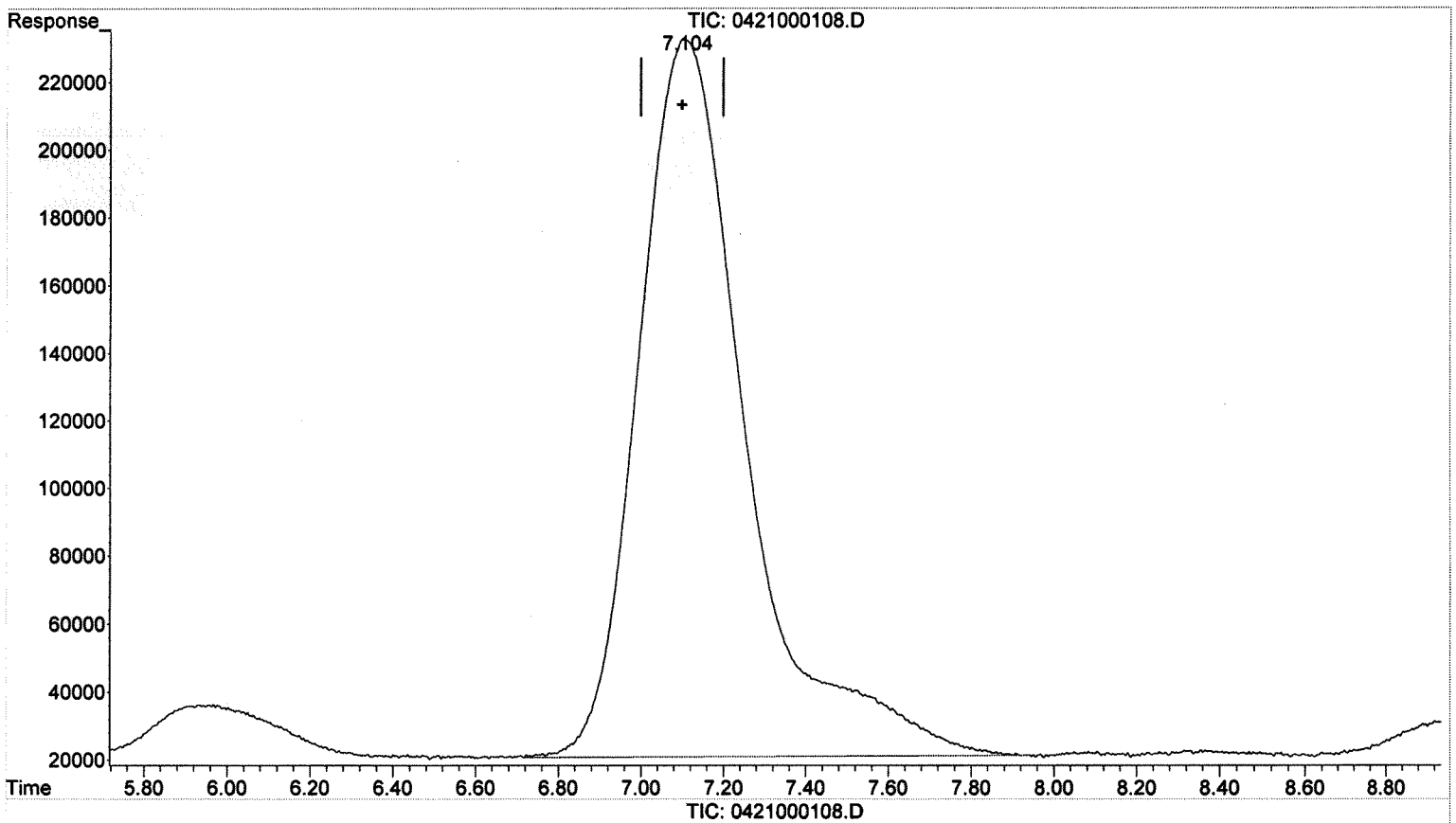
(+) = Expected Retention Time



Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000108.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 02:32:45  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:47 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)  
7.104min 194.712 ug/L  
response 3824658

Manual Integration:  
Before

05/05/15

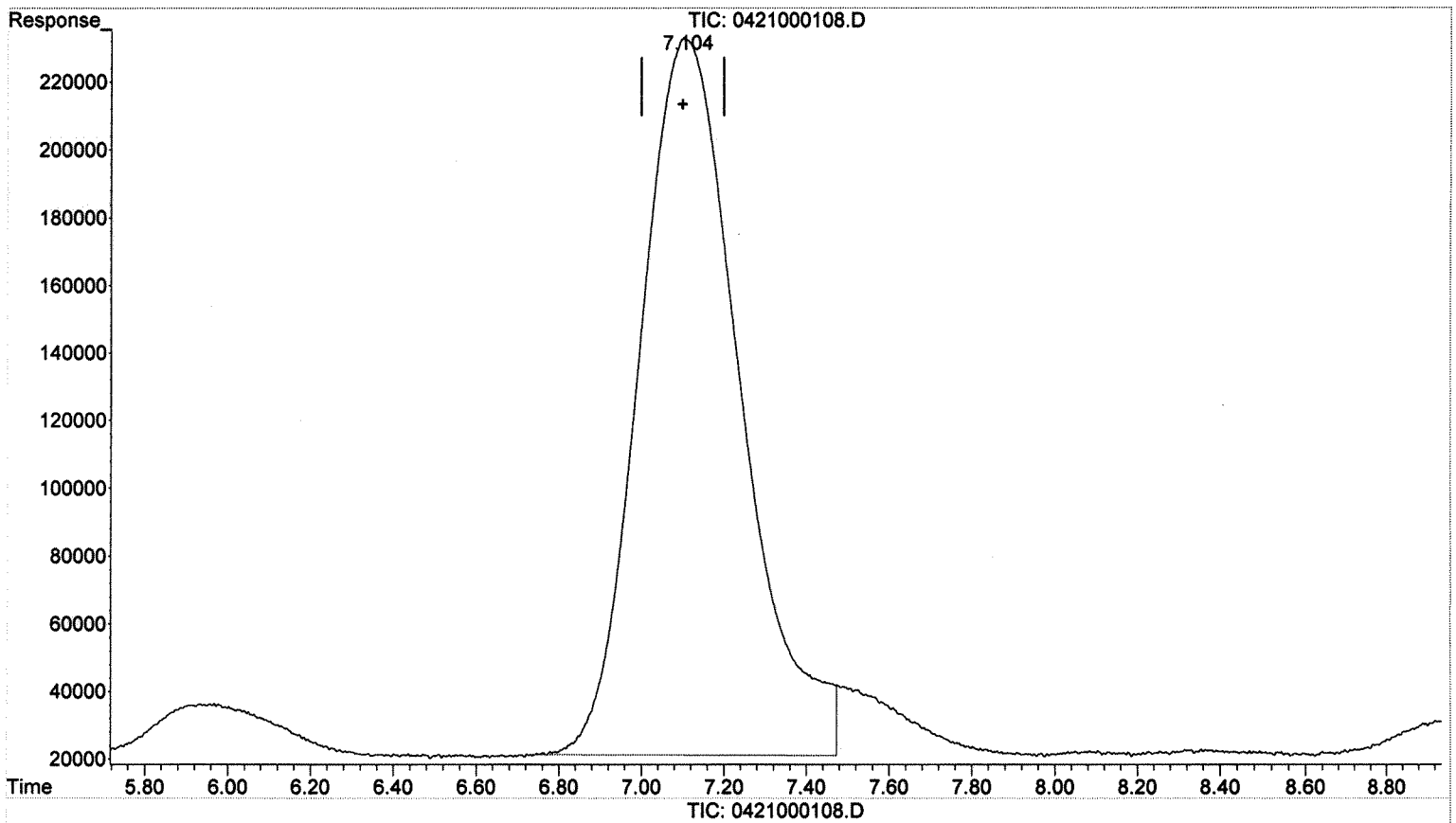
(+) = Expected Retention Time



Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000108.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 02:32:45  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:47 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



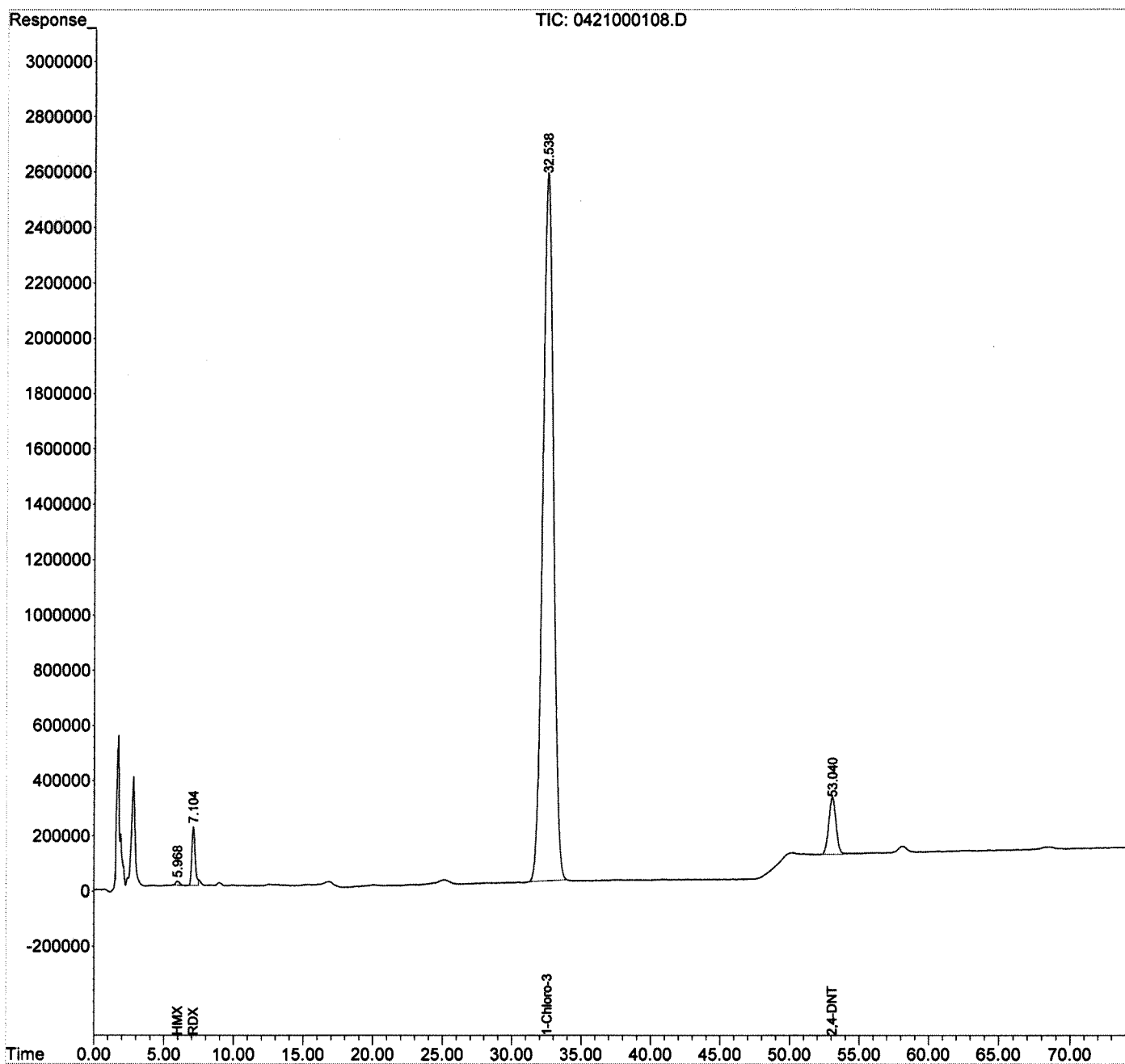
(2) RDX (T)  
7.104min 182.312 ug/L m  
response 3581091

Manual Integration:  
After  
BLC  
05/05/15 *ln*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000108.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 02:32:45  
Operator : CFS  
Sample : K1503815-003  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 13:26:05 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000209.D  
**Lab ID:** K1503815-004  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 04:35  
**Date Quantitated:** 05/01/2015 13:47  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank	HMX	0.58	NA	0.10	<i>confirm</i>

Primary Review: *la 5/5/15*

Secondary Review: *QA 5/12/15*

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000209.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 04:35	<b>Quant Date:</b> 05/01/2015 13:47
<b>Run Type:</b> SMPL	<b>Vial:</b> 56
<b>Lab ID:</b> K1503815-004	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427787	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.42	-0.02	142793931	4,647	93	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units:		Q	Rpt?
				Solution Conc	ug/L		
HMX	4.26	-0.08	4931200m	319.82	1.3	U	
RDX	7.18	0.03	3721058m	179.98	0.69	C	
1,3,5-Trinitrobenzene	9.99	0.04	342624m	7.57	0.050	U	
1,3-Dinitrobenzene			0d		0.0085	U	
3,5-Dinitroaniline			0d		0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0		0.024	U	
4-Amino-2,6-dinitrotoluene			0		0.016	U	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	
2,6-Dinitrotoluene			0		0.054	U	
2,4-Dinitrotoluene			0		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000209.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 04:35:08  
 Operator : CFS  
 Sample : K1503815-004  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:47:43 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.423	142793931	4647.109	ug/L
Target Compounds				
1) T HMX	4.257f	4931200	319.821	ug/L m
2) T RDX	7.183	3721058	179.983	ug/L m
3) T 1,3,5-TNB	9.990	342624	7.565	ug/L m
4) T 1,3-DNB	0.000	0	N.D.	ug/L d
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L d
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

*i - unresolved matrix interference  
 5/5/15*

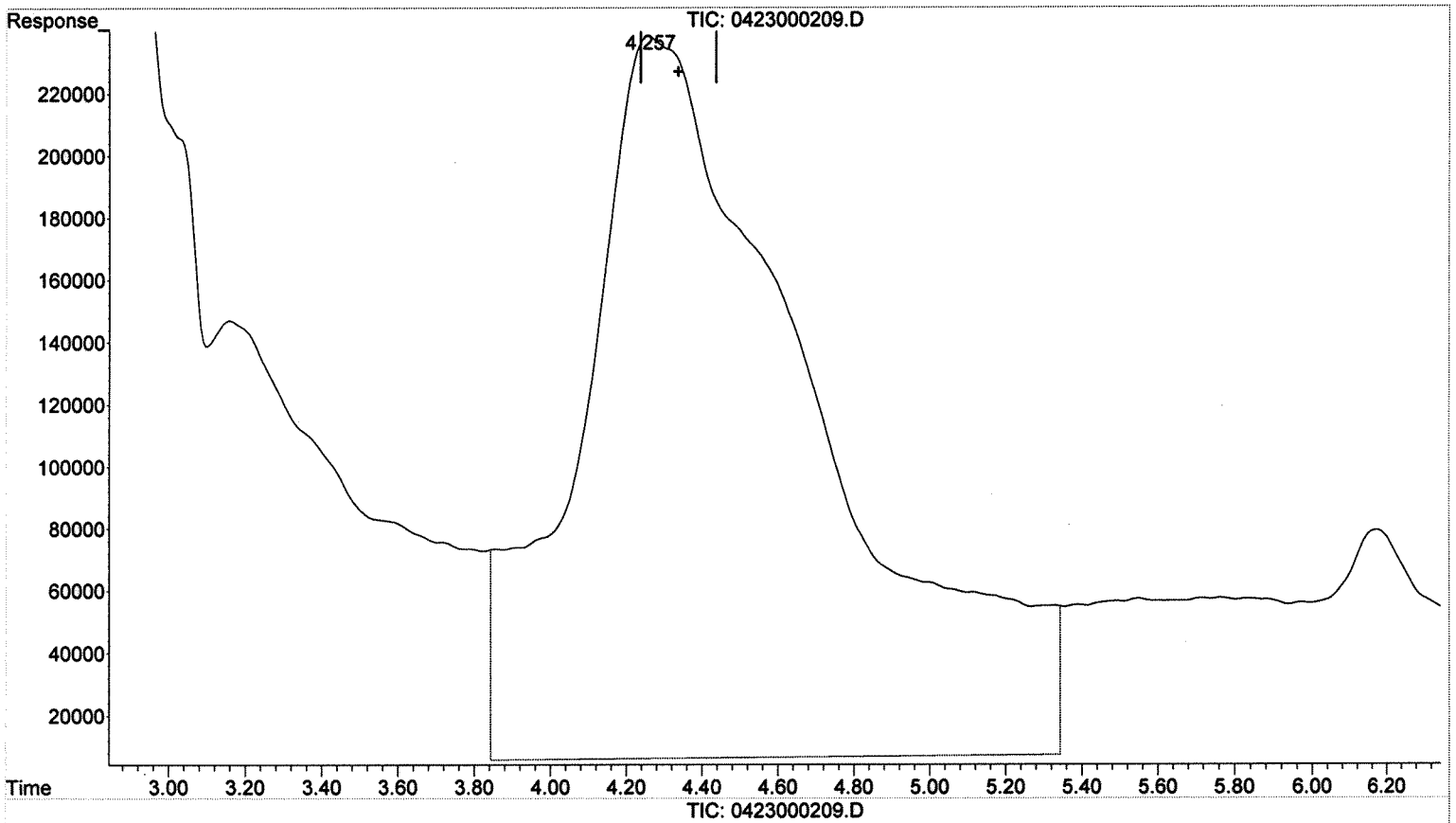
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000209.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 04:35:08  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:56 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.257min 649.671 ug/L  
response 10017021

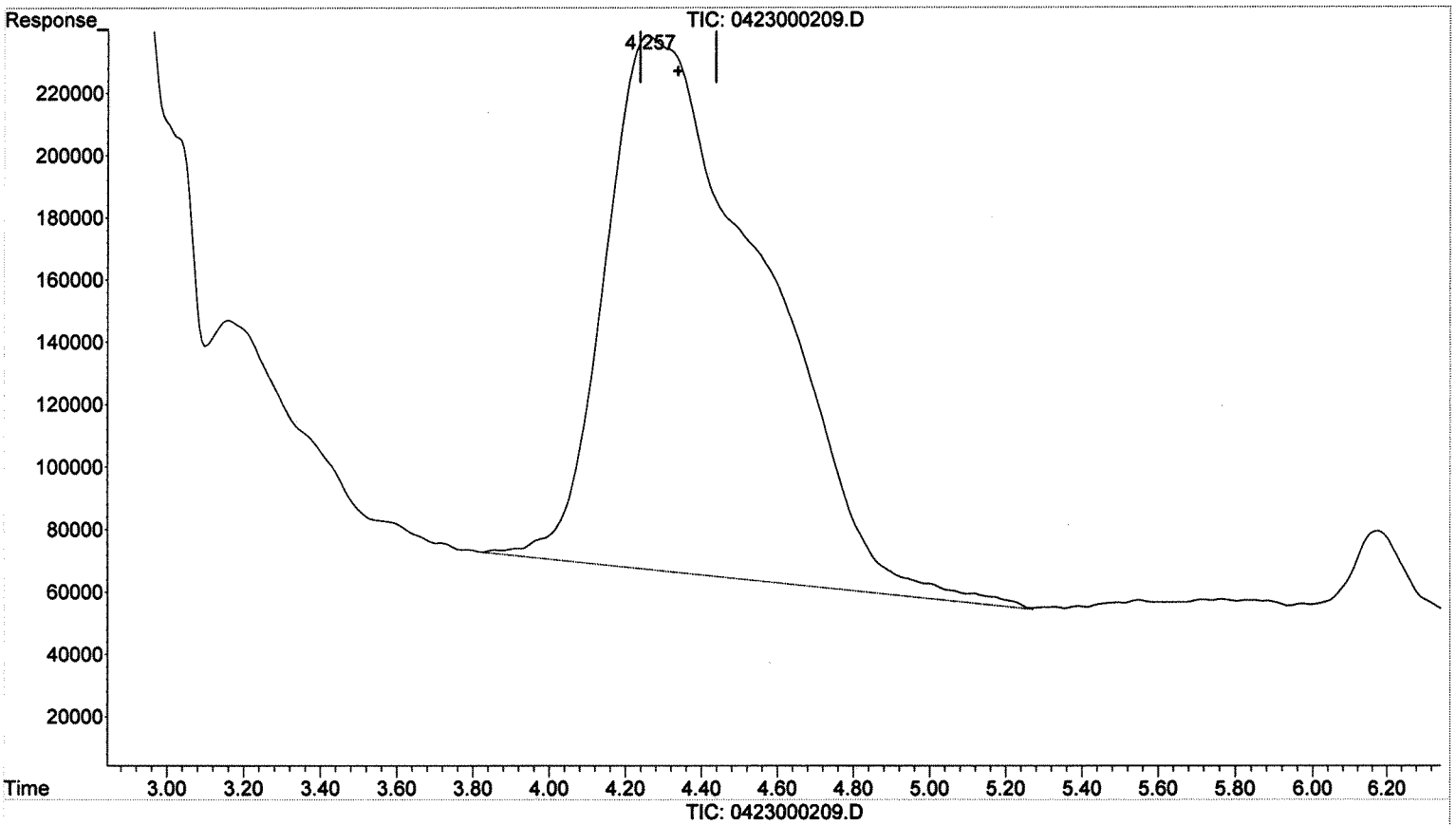
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000209.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 04:35:08  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:56 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.257min 319.821 ug/L m  
response 4931200

Manual Integration:  
After  
BLC  
05/01/15

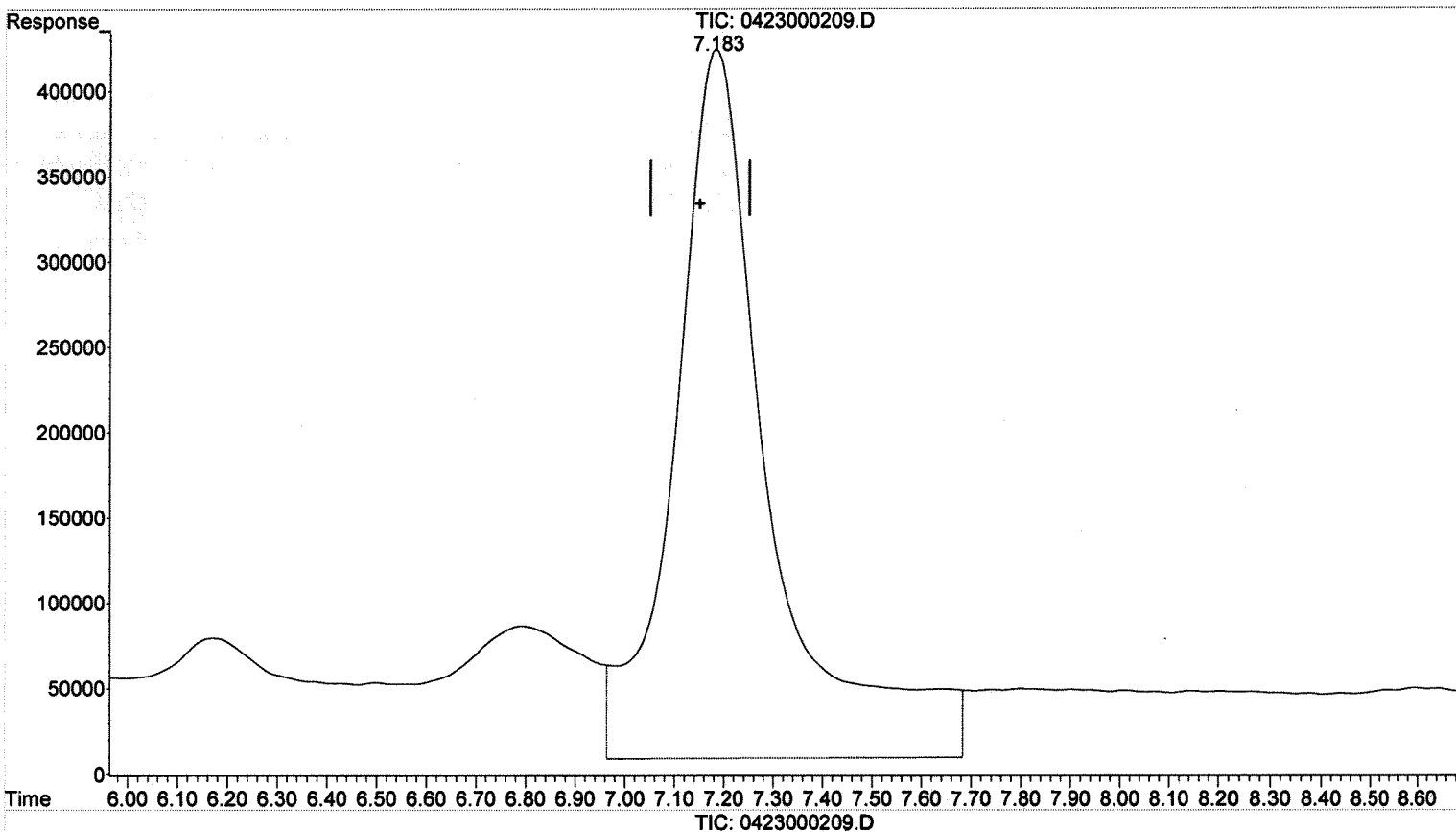
*lll*



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000209.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 04:35:08  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:56 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.183min 268.408 ug/L  
response 5491768

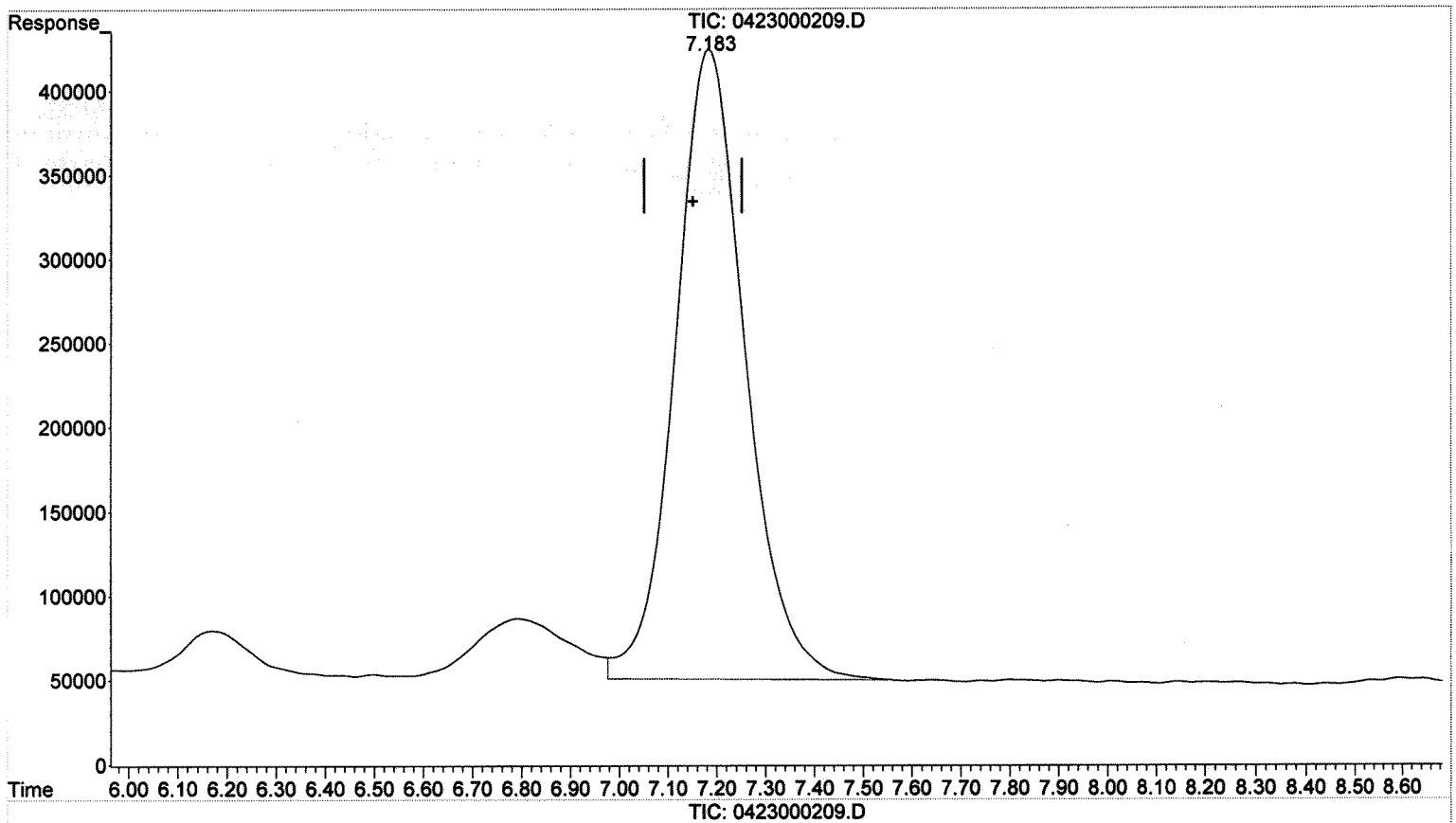
Manual Integration:  
Before

05/01/15 *llr*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000209.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 04:35:08  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:56 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.183min 179.983 ug/L m  
response 3721058

Manual Integration:

After

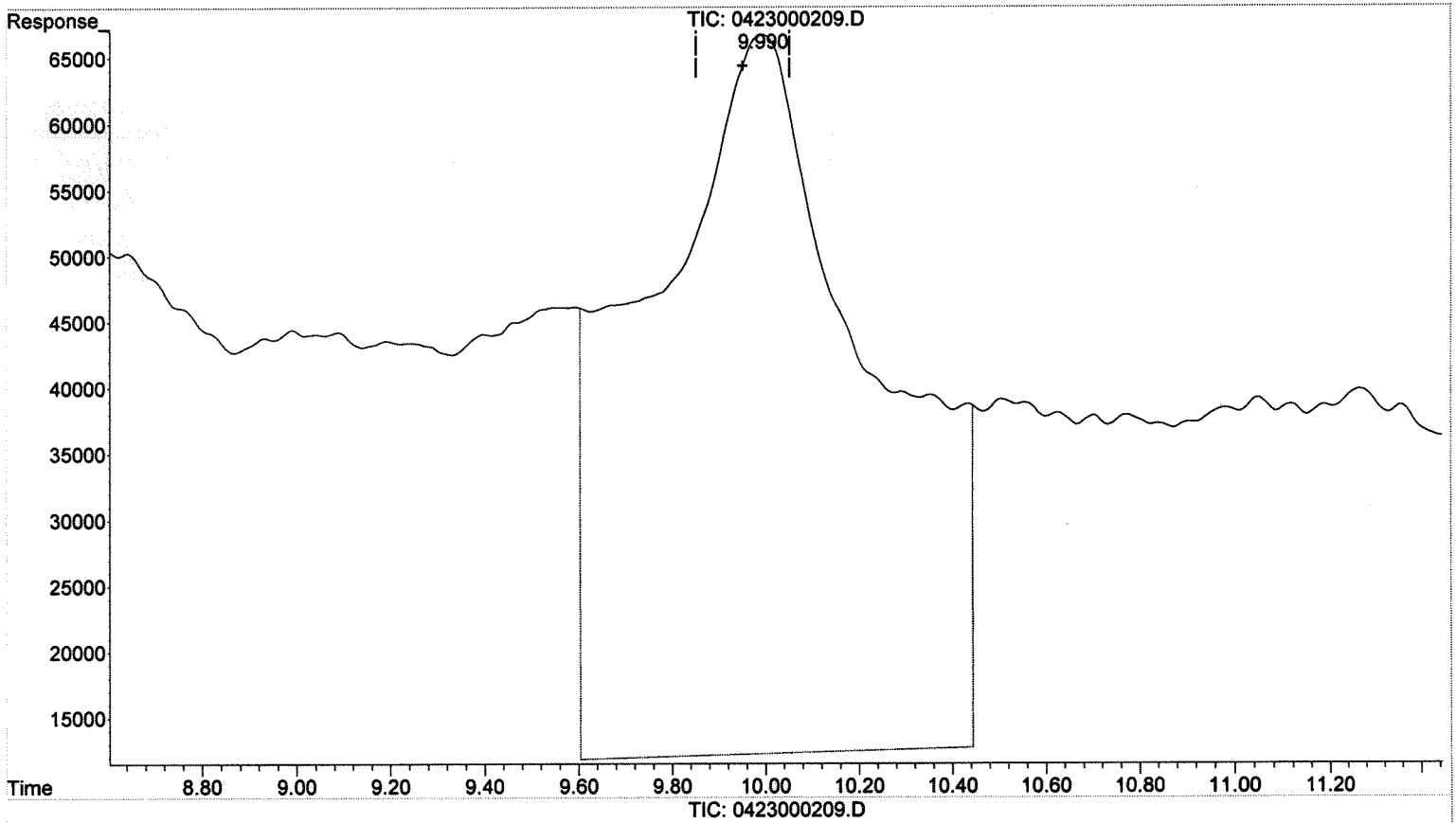
BLC

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000209.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 04:35:08  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:56 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.990min 40.635 ug/L  
response 1840392

Manual Integration:

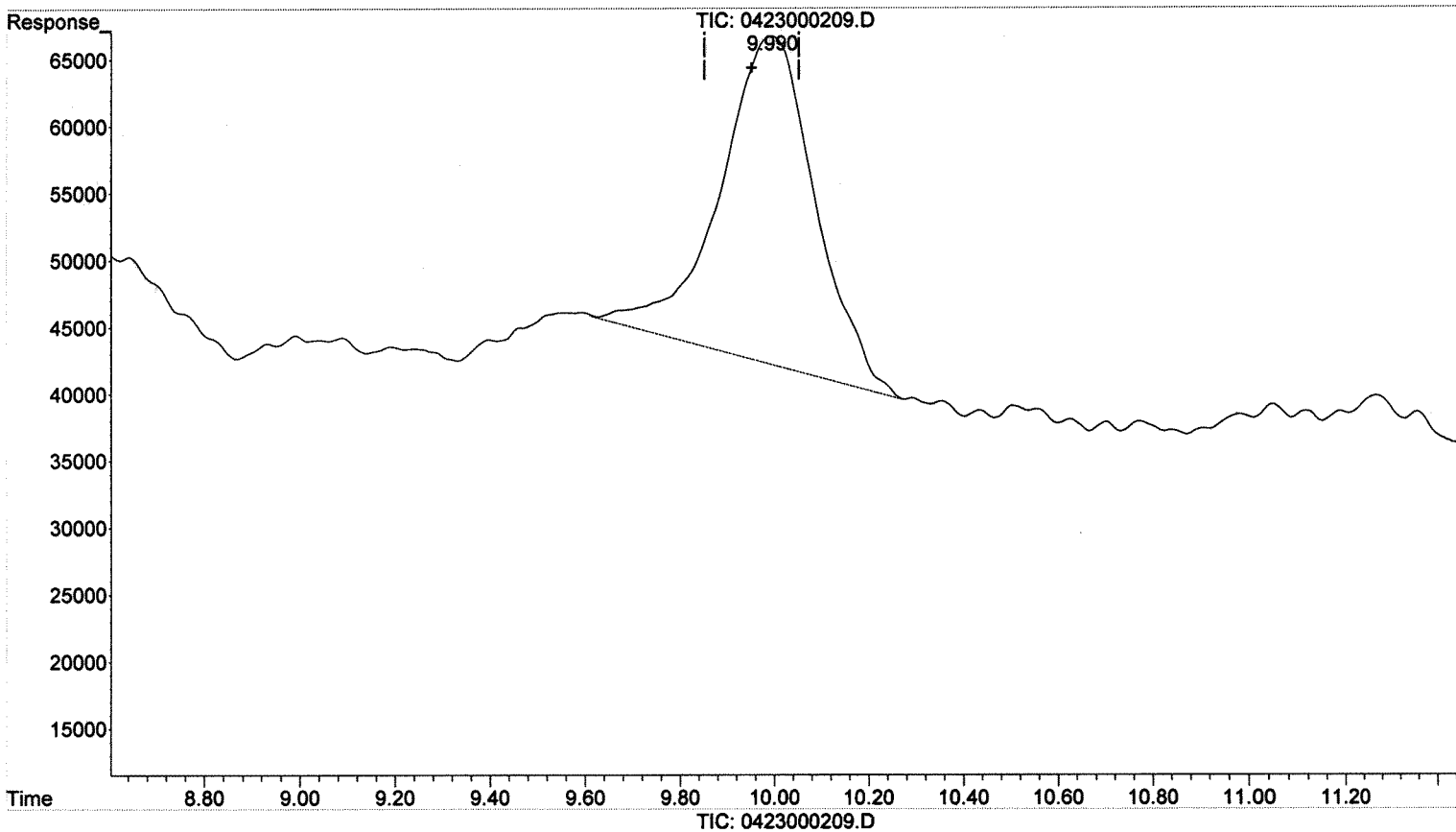
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000209.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 04:35:08  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:56 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



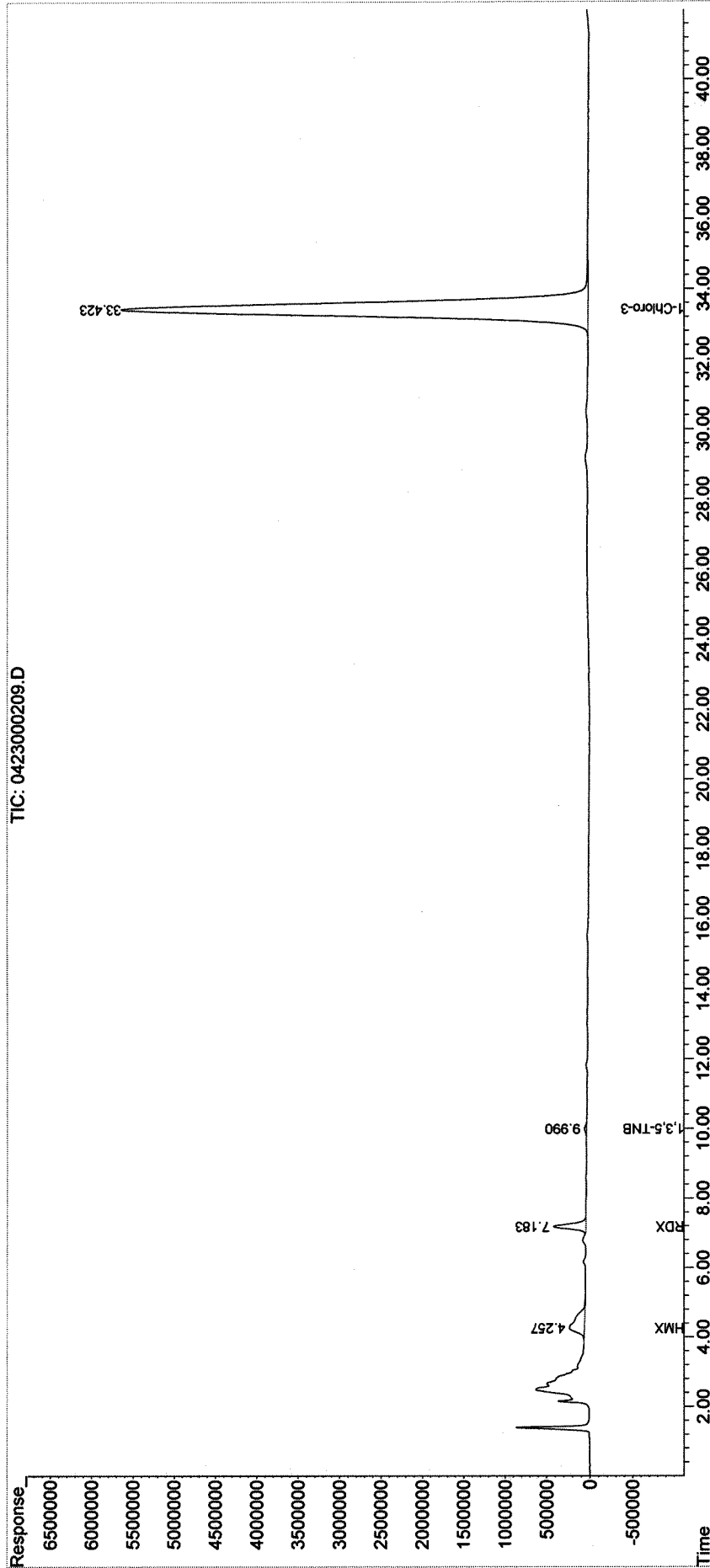
(3) 1,3,5-TNB (T)  
9.990min 7.565 ug/L m  
response 342624

Manual Integration:  
After  
BLC  
05/01/15 *lh*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000209.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 04:35:08  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:47:43 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000209.D  
**Lab ID:** K1503815-004  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 04:35  
**Date Quantitated:** 05/12/2015 09:03  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review:     *lu* 5/12/15    

Secondary Review:     *lu* 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000209.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 04:35	<b>Quant Date:</b> 05/12/2015 09:03
<b>Run Type:</b> SMPL	<b>Vial:</b> 56
<b>Lab ID:</b> K1503815-004	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427787	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
	<b>Method ID:</b> MJ1278
<b>MB Ref:</b> J:\LC10\DATA\042315X\210\0423000204.D	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.42	-0.02	372981619	4,495	90	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0		0.18	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000209.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 04:35:08  
 Operator : CFS  
 Sample : K1503815-004  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:03:42 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	33.423	372981619	4494.748	ug/L
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L
-----				

(f)=RT Delta > 1/2 Window

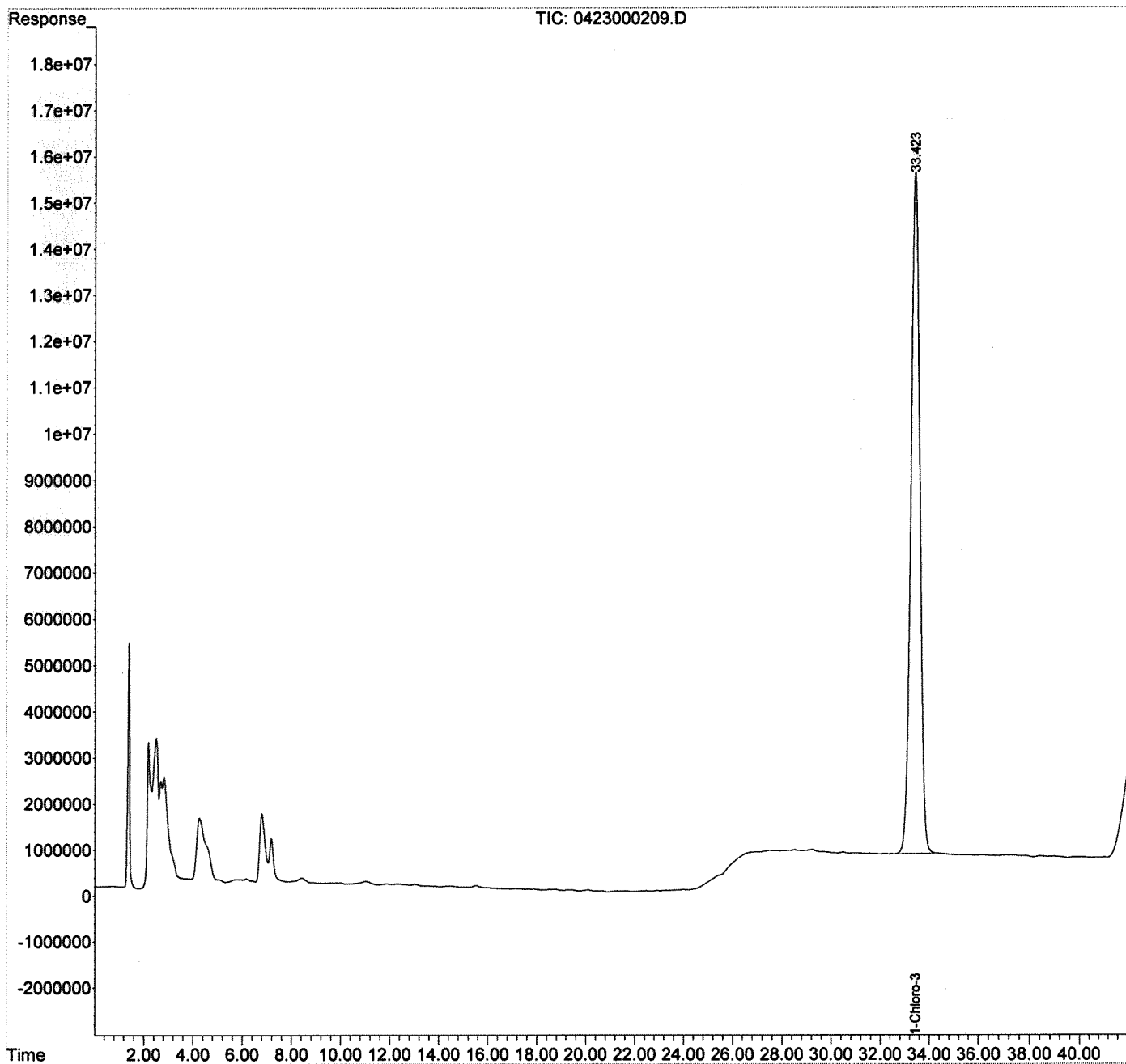
(m)=manual int.



Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000209.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 04:35:08  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:03:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000109.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 04:09:02  
 Operator : CFS  
 Sample : K1503815-004  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 13:44:34 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

1040uL → 4.0uL

Sx  
(ug/L)

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
11) S 1-Chloro-3-Nitrobenzene	32.574	139108892	5044.626	ug/L
<b>Target Compounds</b>				
1) T HMX	5.913f	276641	17.042	ug/L m
2) T RDX	7.116	3609951	183.781	ug/L m
3) T Nitrobenzene	0.000	0	N.D.	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	53.041f	7820330	138.058	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

Play .065  
0.71 C

(f)=RT Delta > 1/2 Window

(m)=manual int.

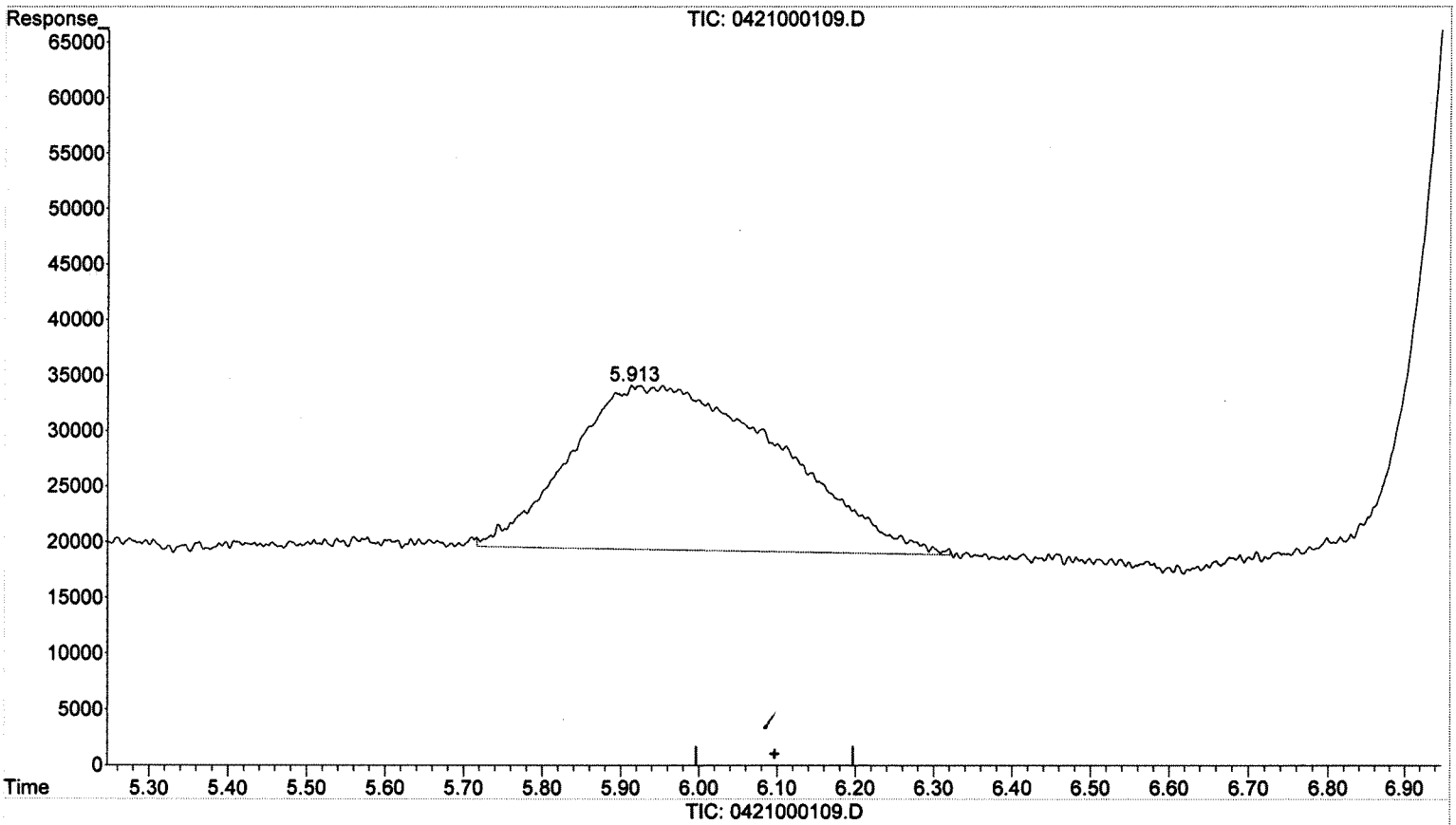
ll 5/5/15

Quantitation Report (Qedit)

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000109.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 04:09:02  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:49 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)  
5.913min 17.042 ug/L m  
response 276641

Manual Integration:

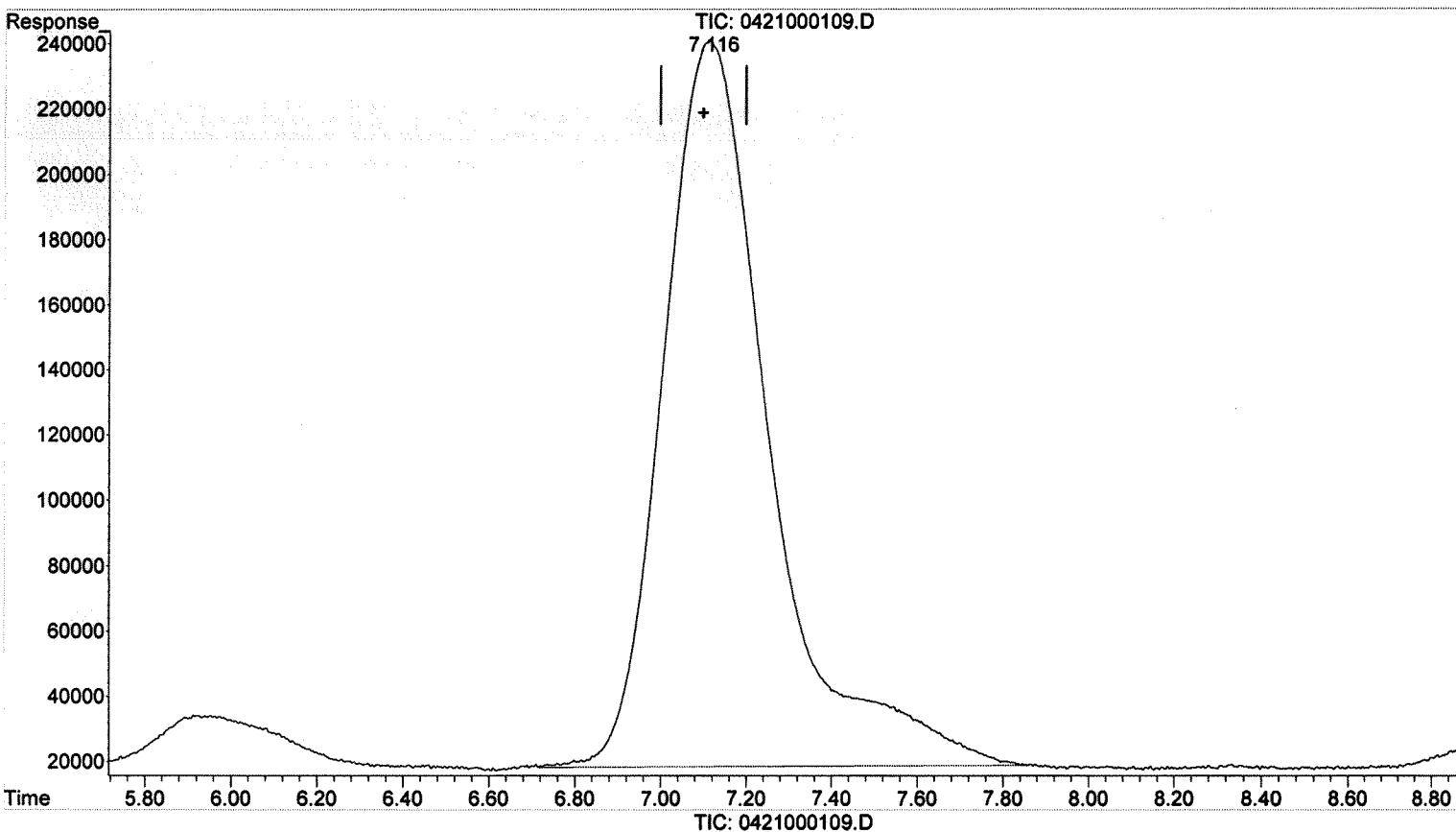
After : floy  
MP  
05/05/15  
li

Quantitation Report (Qedit)

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000109.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 04:09:02  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:49 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)  
7.116min 194.888 ug/L  
response 3828126

Manual Integration:  
Before

05/05/15

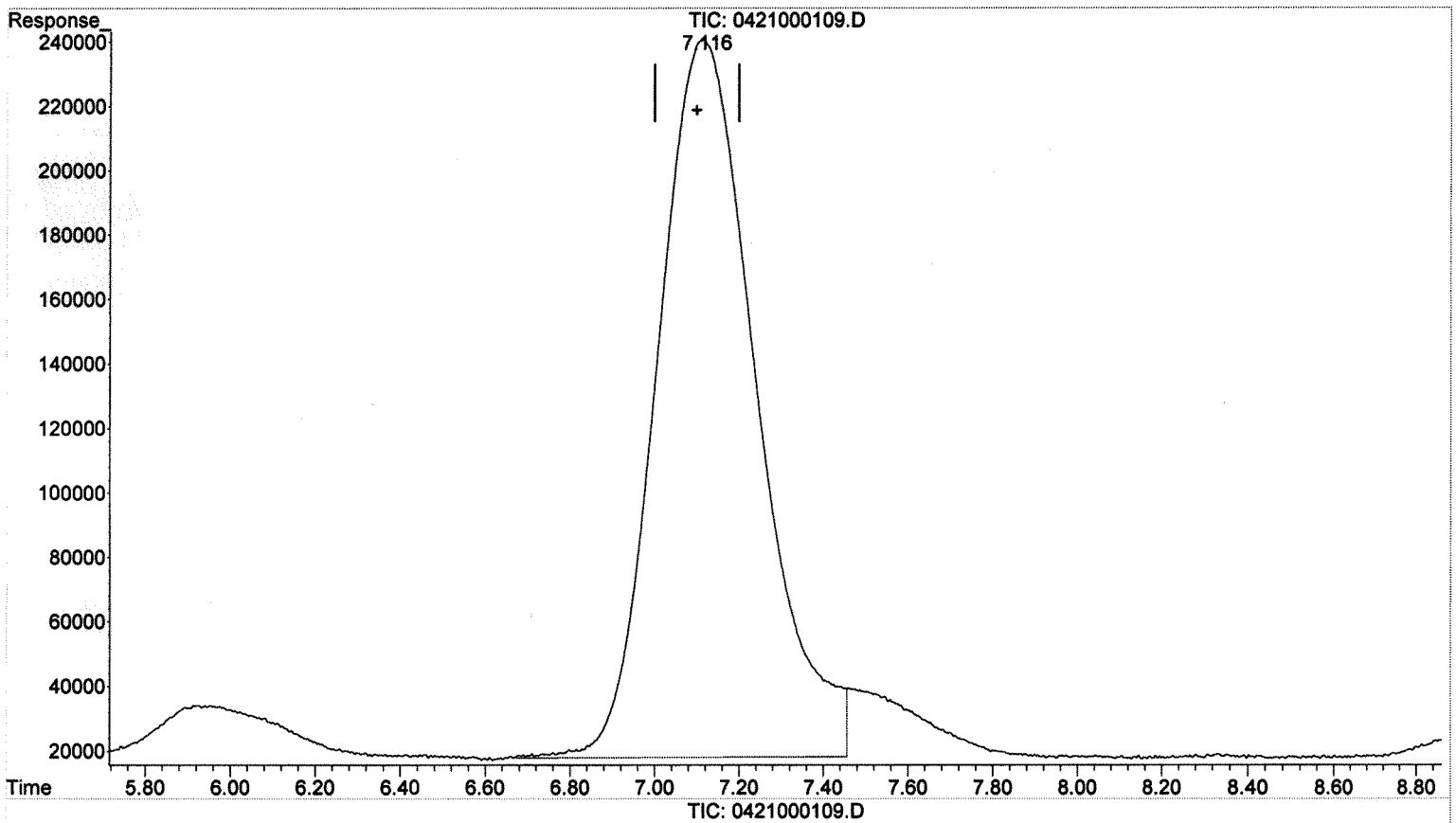
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000109.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 04:09:02  
Operator : CFS  
Sample : K1503815-004  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:49 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



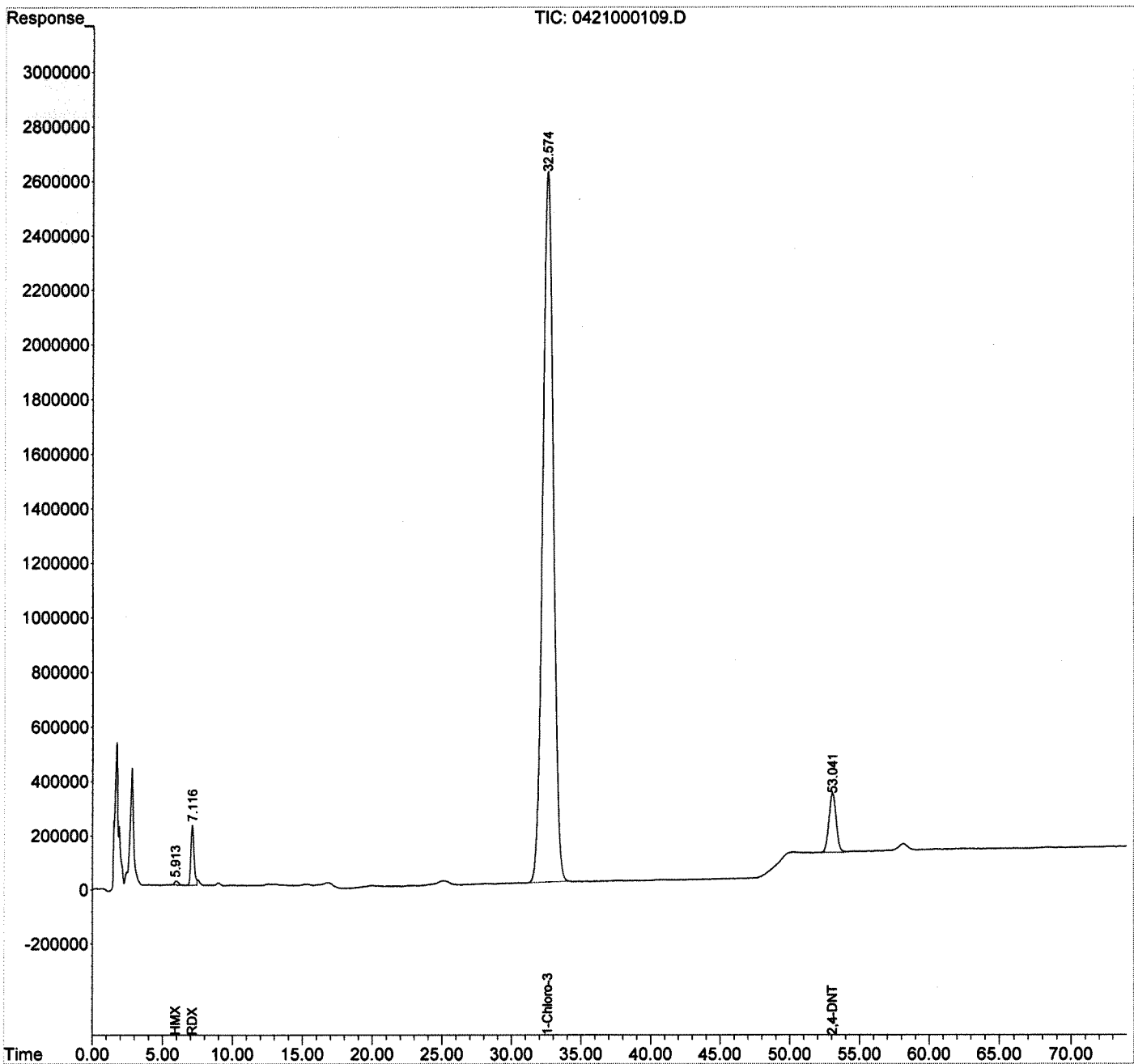
(2) RDX (T)  
7.116min 183.781 ug/L m  
response 3609951

Manual Integration:  
After  
BLC  
05/05/15

Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000109.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 04:09:02  
 Operator : CFS  
 Sample : K1503815-004  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 13:44:34 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000210.D  
**Lab ID:** K1503815-005  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 05:45  
**Date Quantitated:** 05/01/2015 13:49  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank	HMX	0.58	NA	0.10	<i>contin</i>

Primary Review: *5/5/15*

Secondary Review: *5.12.15*

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000210.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 05:45	<b>Quant Date:</b> 05/01/2015 13:49
<b>Run Type:</b> SMPL	<b>Vial:</b> 57
<b>Lab ID:</b> K1503815-005	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 01	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427788	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.42	-0.02	150541466	4,899	98	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.28	-0.06 ✓	4858264m	315.09	1.3	Ui	
RDX	7.18	0.03	2038949m	95.96	0.37	C	
1,3,5-Trinitrobenzene	9.97	0.02	343464m	7.58	0.050	U	
1,3-Dinitrobenzene			0		0.0085	U	
3,5-Dinitroaniline			0		0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0		0.024	U	
4-Amino-2,6-dinitrotoluene			0		0.016	U	
2-Amino-4,6-dinitrotoluene			0d		0.0089	U	
2,6-Dinitrotoluene			0d		0.054	U	
2,4-Dinitrotoluene			0d		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0		0.0060	U	
3-Nitrotoluene			0d		0.0064	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 ? : Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ? : Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000210.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 05:45:53  
 Operator : CFS  
 Sample : K1503815-005  
 Misc :  
 ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:49:42 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.422	150541466	4899.246	ug/L
Target Compounds				
1) T HMX	4.275f	4858264	315.091	ug/L m
2) T RDX	7.175	2038949	95.960	ug/L m
3) T 1,3,5-TNB	9.969	343464	7.584	ug/L m
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L d
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L d

*i = unresolved matrix int.  
 see 5/5/15*

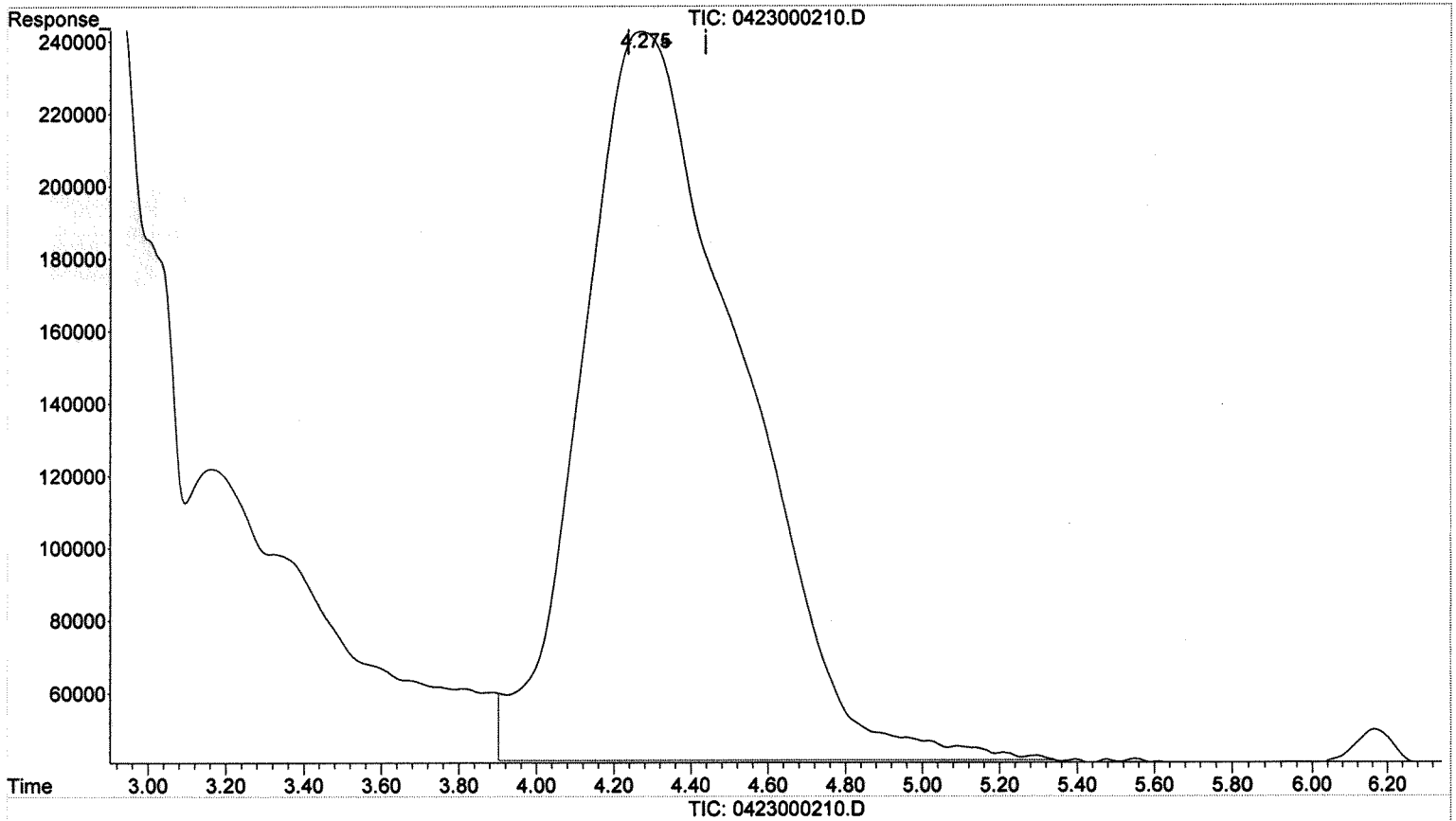
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000210.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 05:45:53  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.275min 369.879 ug/L  
response 5703025

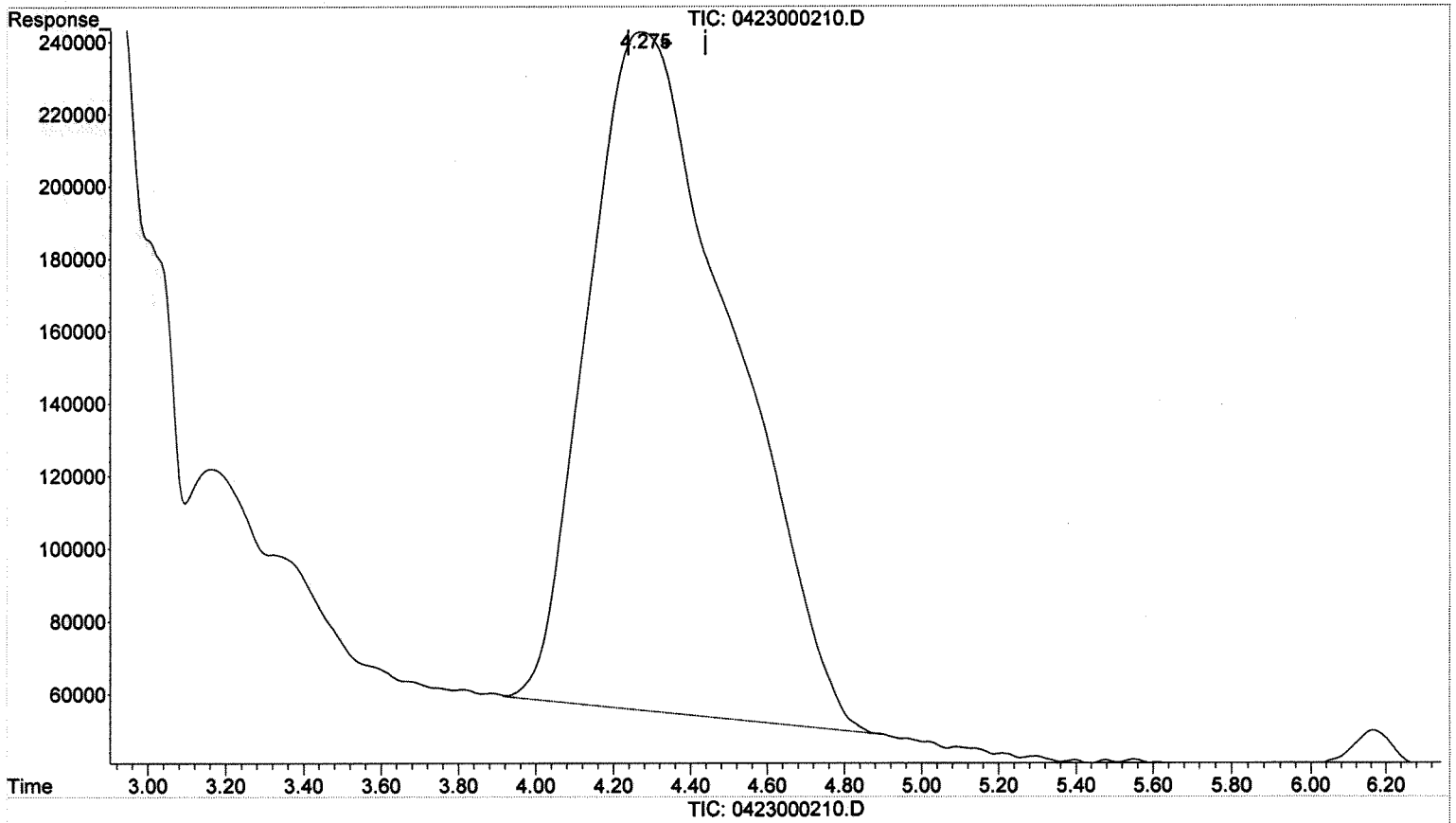
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000210.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 05:45:53  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.275min 315.091 ug/L m  
response 4858264

Manual Integration:

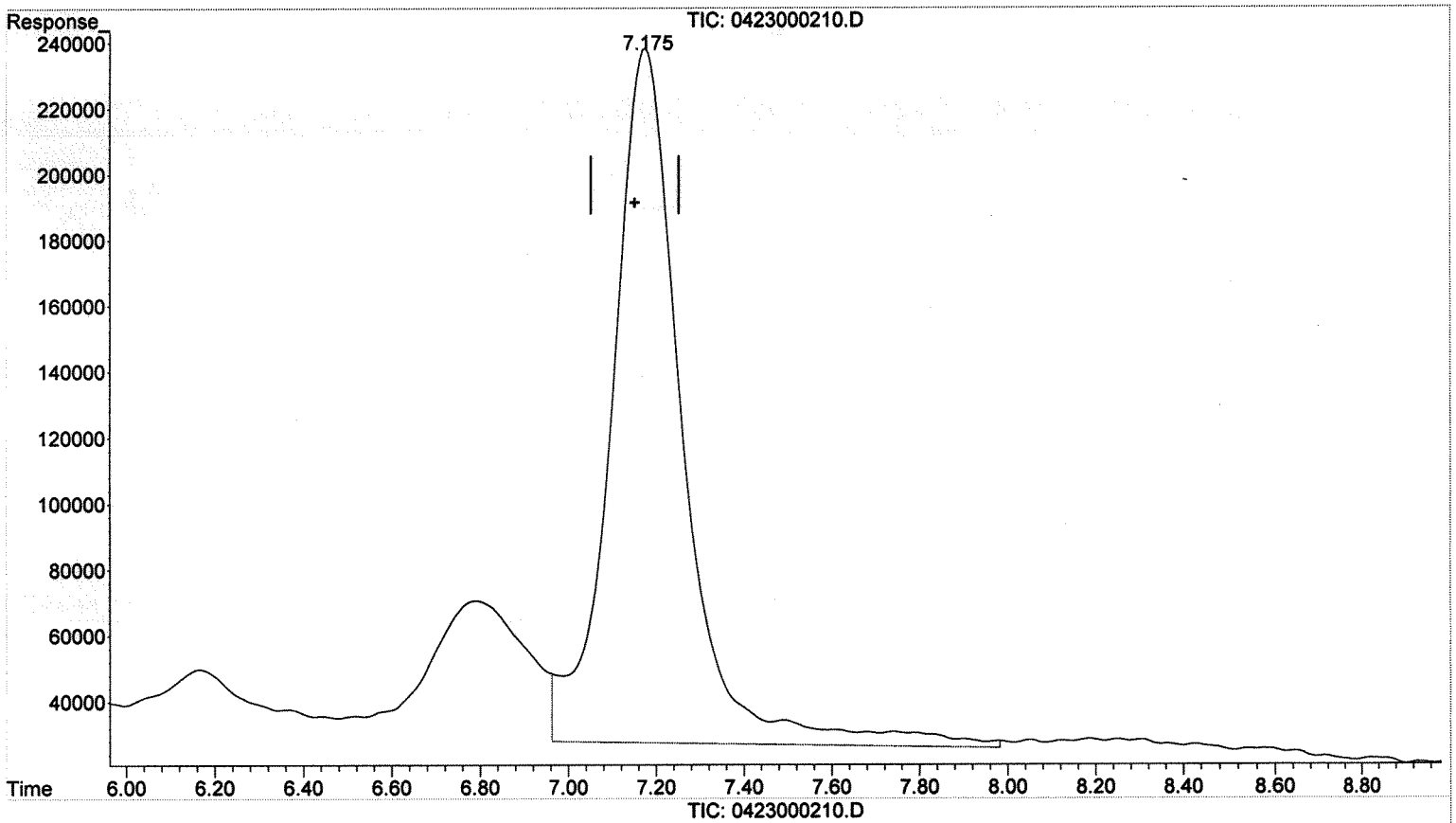
After  
BLC  
05/01/15

*Alg*  
*du*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000210.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 05:45:53  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.175min 112.491 ug/L  
response 2369861

Manual Integration:

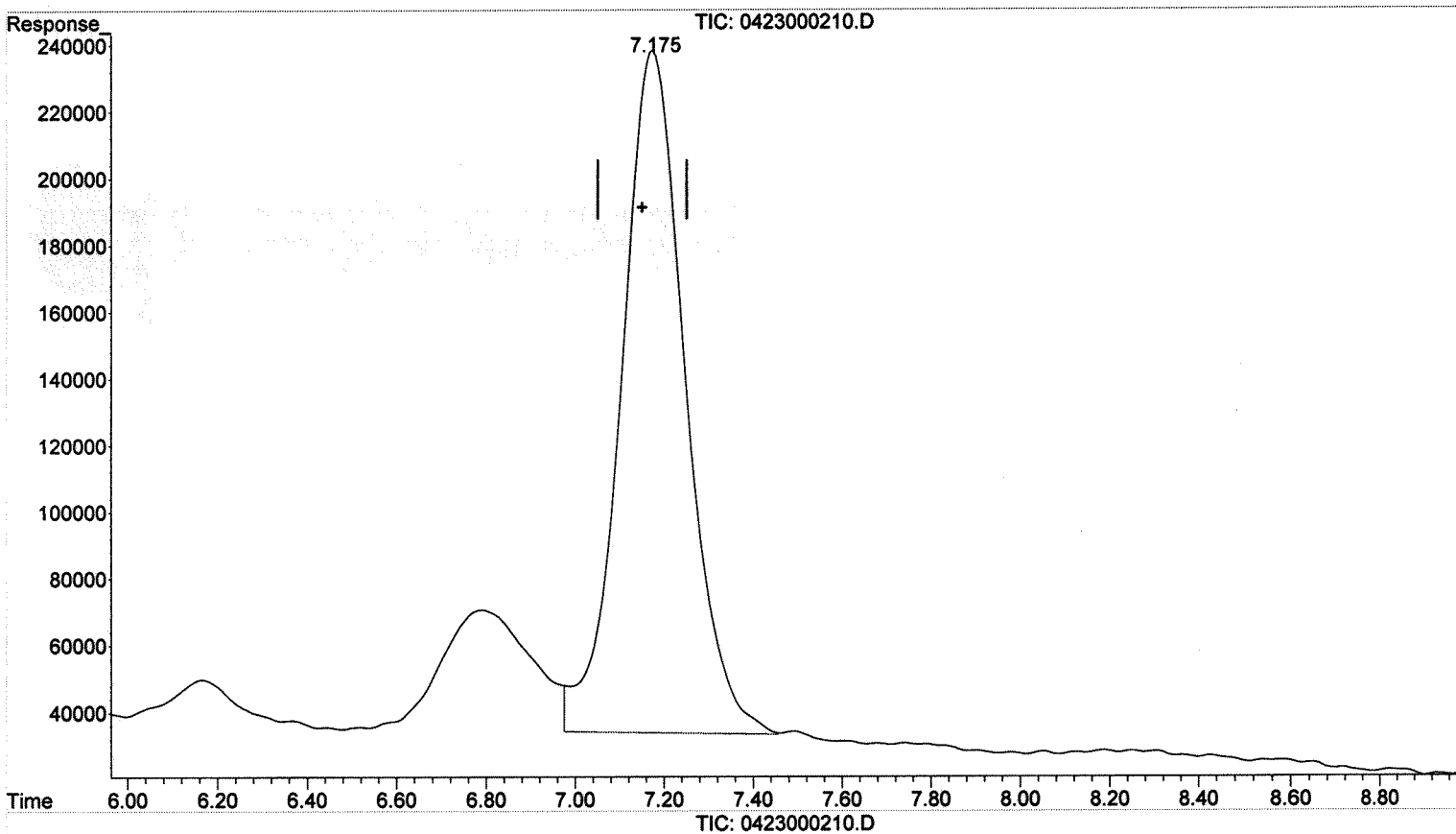
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000210.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 05:45:53  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.175min 95.960 ug/L m  
response 2038949

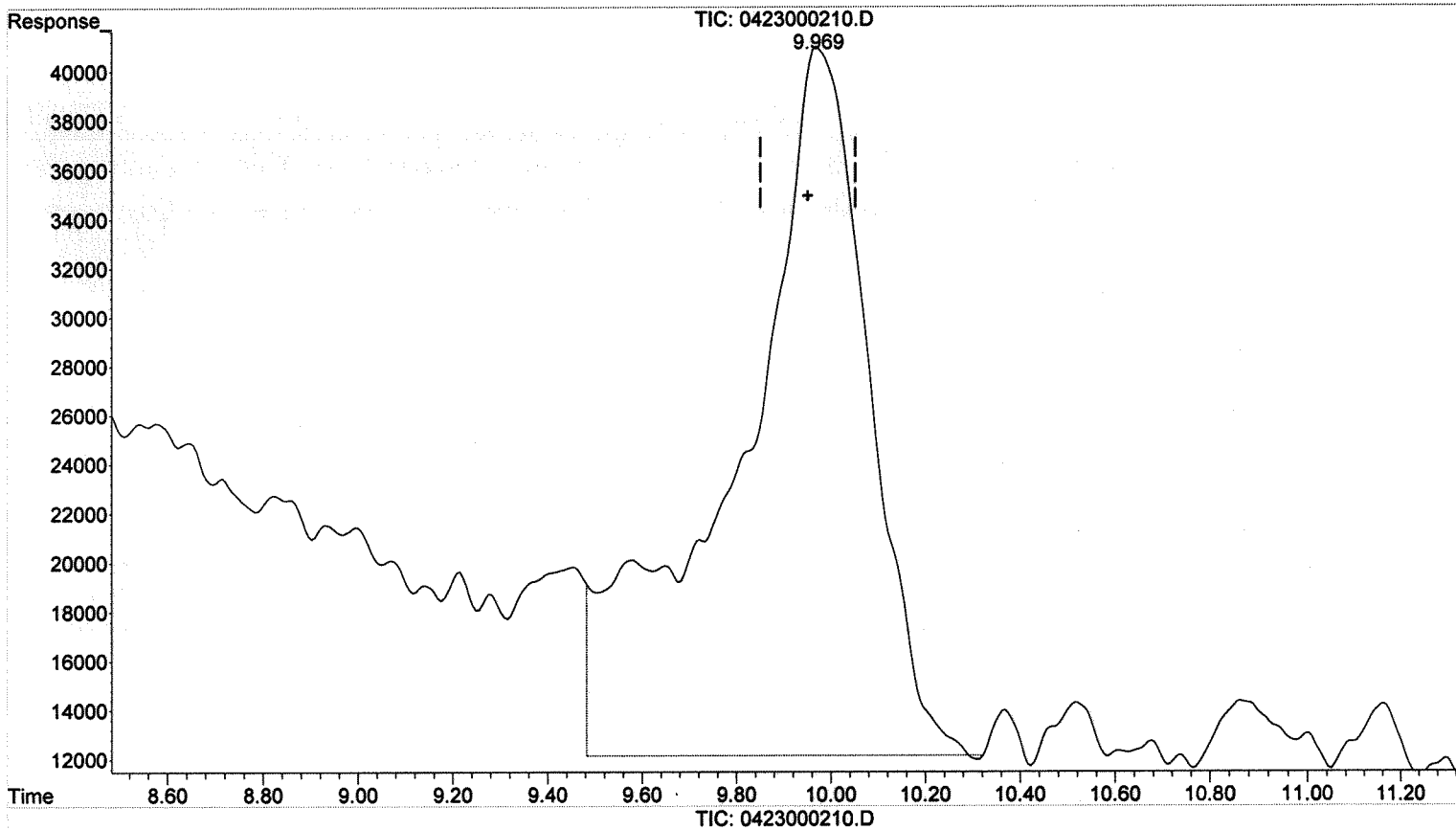
Manual Integration:

After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000210.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 05:45:53  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.969min 12.436 ug/L  
response 563232

Manual Integration:

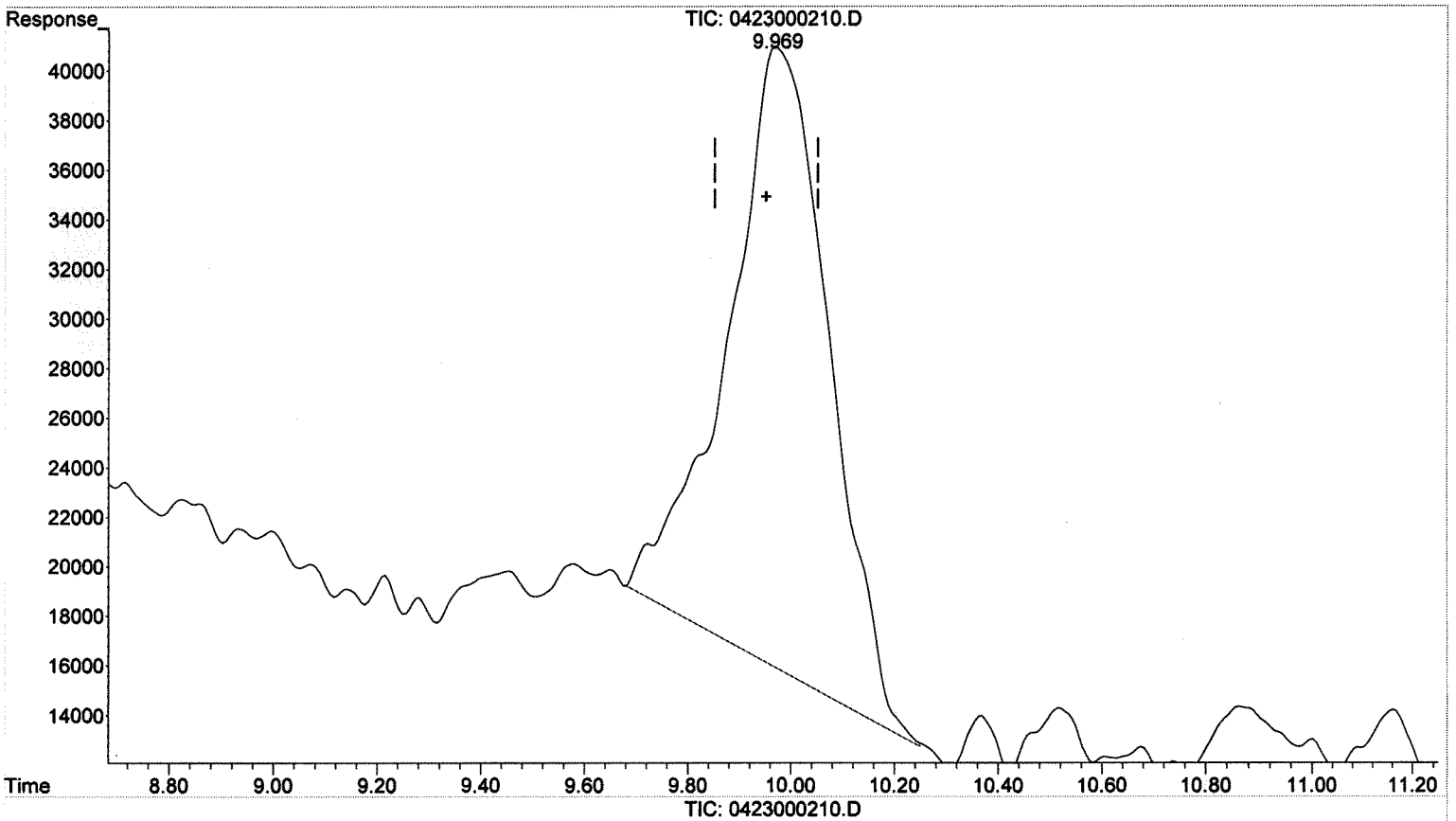
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000210.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 05:45:53  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:49:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.969min 7.584 ug/L m  
response 343464

Manual Integration:

After

BLC

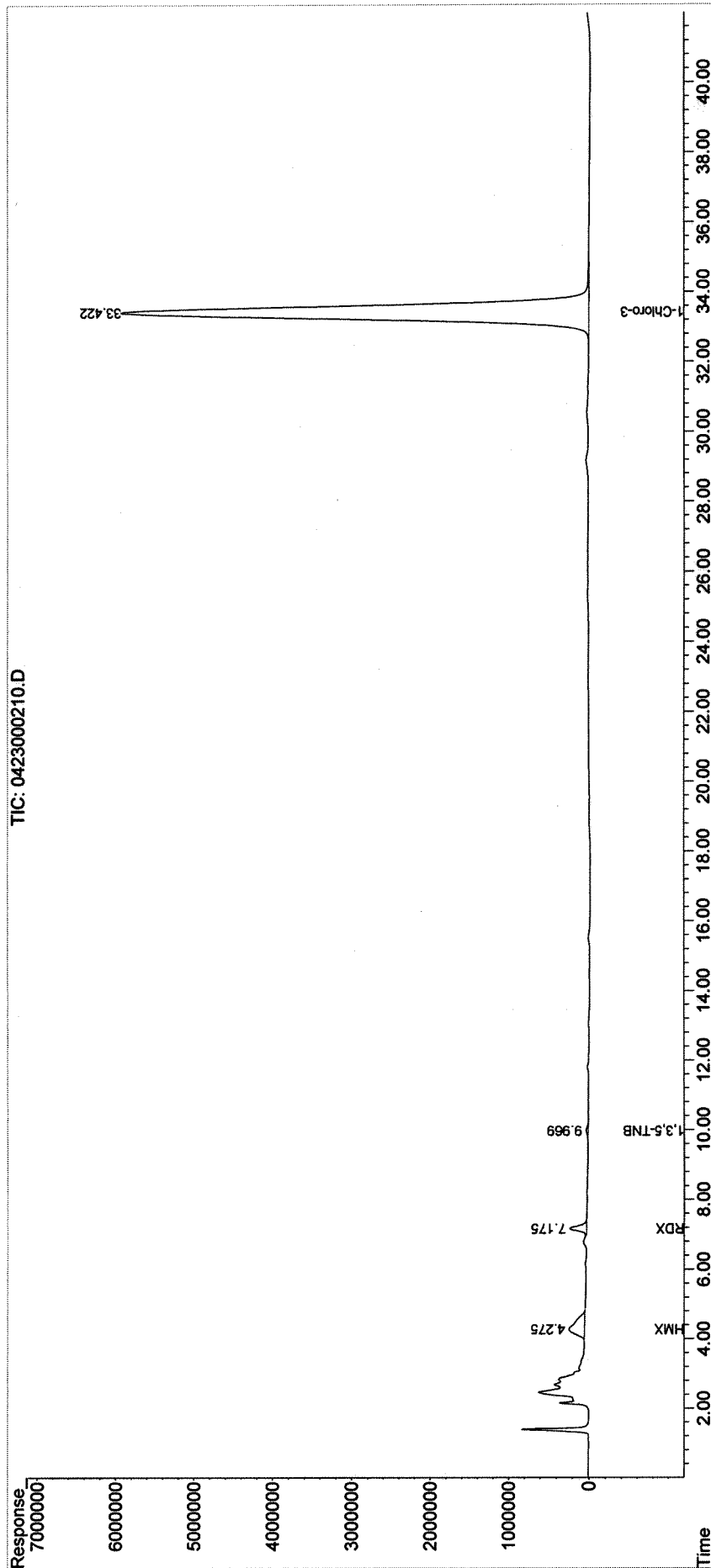
05/05/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000210.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 05:45:53  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:49:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
Quant Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm





## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000210.D  
**Lab ID:** K1503815-005  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 05:45  
**Date Quantitated:** 05/12/2015 09:03  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: lee 5/12/15

Secondary Review: AA 5/12/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\210\0423000210.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 05:45	<b>Quant Date:</b>	05/12/2015 09:03
<b>Run Type:</b>	SMPL	<b>Vial:</b>	57
<b>Lab ID:</b>	K1503815-005	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	01	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/13/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503922	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427788	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13892
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
<b>MB Ref:</b>	J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b>	MJ1278
		<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	33.42	-0.02	392492616	4,730	95	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0		0.18	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000210.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 05:45:53  
 Operator : CFS  
 Sample : K1503815-005  
 Misc :  
 ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:03:44 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.422	392492616	4729.872 ug/L
Target Compounds			
1) T Nitroglycerin	0.000	0	N.D. ug/L
2) T PETN	0.000	0	N.D. ug/L
-----			

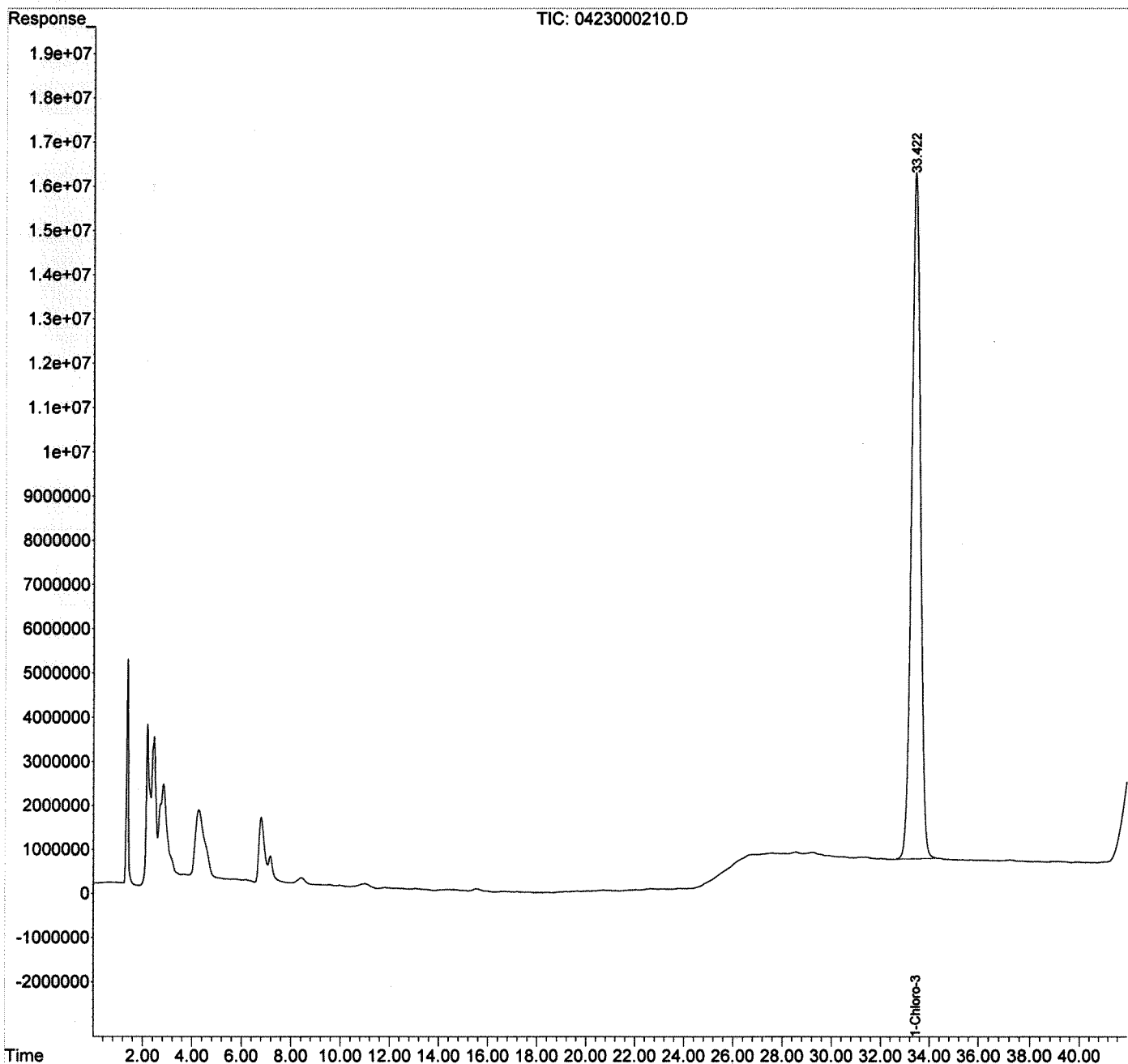
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000210.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 05:45:53  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:03:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000110.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 05:45:18  
 Operator : CFS  
 Sample : K1503815-005  
 Misc :  
 ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 13:50:49 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

1040 mL → 4m

Sx  
 conc  
 (ug/L)

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
11) S 1-Chloro-3-Nitrobenzene	32.542	143512345	5204.312 ug/L
Target Compounds			
1) T HMX	5.913f	104495	6.437 ug/L m
2) T RDX	7.108	1897433	96.597 ug/L
3) T Nitrobenzene	0.000	0	N.D. ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D. ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D. ug/L
6) T 2-NT	0.000	0	N.D. ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D. ug/L
8) T 3-NT	0.000	0	N.D. ug/L
9) T 1,3-DNB	0.000	0	N.D. ug/L
10) T 4-NT	0.000	0	N.D. ug/L
12) T 2,6-DNT	0.000	0	N.D. ug/L
13) T 2,4-DNT	53.019f	7784355	137.423 ug/L
14) T Tetryl	0.000	0	N.D. ug/L
15) T 1,3,5-TNB	0.000	0	N.D. ug/L
16) T 2,4,6-TNT	0.000	0	N.D. ug/L

0.025 i  
 0.37 c

(f)=RT Delta > 1/2 Window

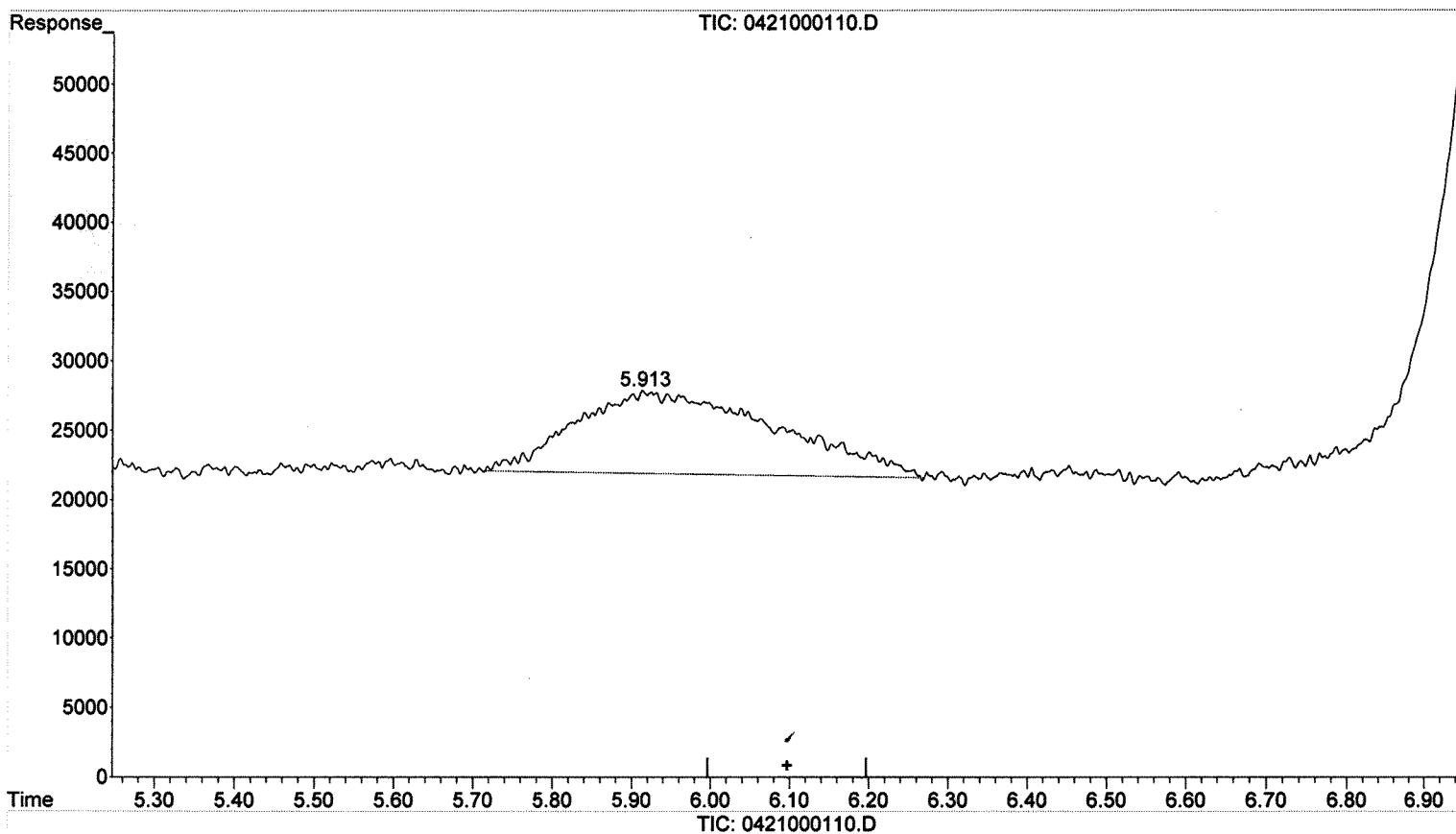
(m)=manual int.

lu 515115

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000110.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 05:45:18  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:52 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



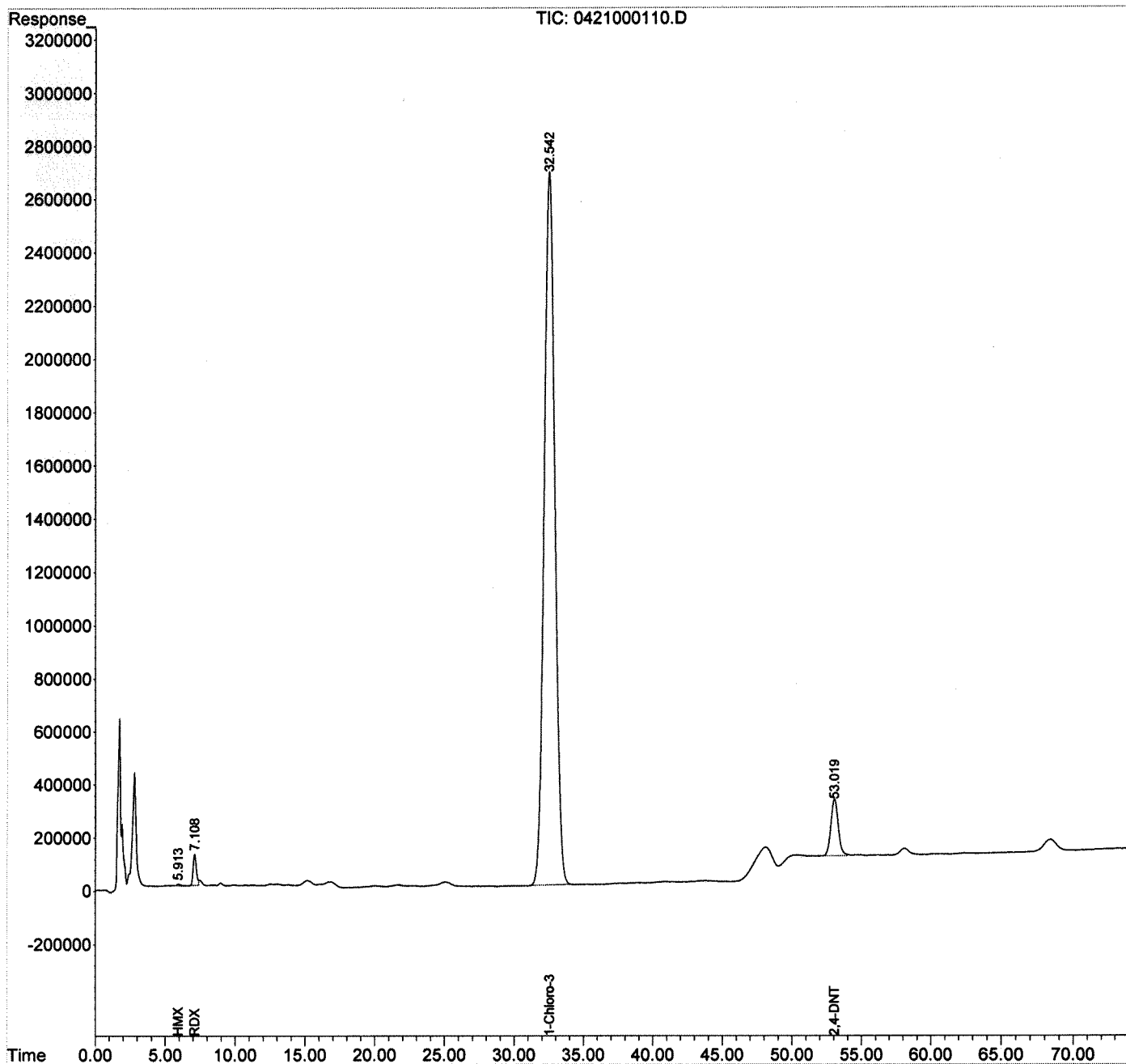
(1) HMX (T)  
5.913min 6.437 ug/L m  
response 104495

Manual Integration:  
After  
MP  
05/05/15

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000110.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 05:45:18  
Operator : CFS  
Sample : K1503815-005  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 13:50:49 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000211.D  
**Lab ID:** K1503815-006  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 06:56  
**Date Quantitated:** 05/01/2015 13:52  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank	HMX	0.58	NA	0.10	<i>confirm</i>
Retention Time	HMX	-0.13	NA	0.10	<i>↓</i>

Primary Review: *5/5/15*

Secondary Review: *5.12.15*



# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000211.D	<b>Instrument:</b> LC10
<b>Acq Date:</b> 04/24/2015 06:56	<b>Quant Date:</b> 05/01/2015 13:52
<b>Run Type:</b> SMPL	<b>Vial:</b> 58
<b>Lab ID:</b> K1503815-006	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427789	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
	<b>Method ID:</b> MJ1278
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.41	-0.03	135172938	4,399	88	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.21	-0.13*	5356346m	347.40	1.3	B	NC
RDX			0		0.017	U	
1,3,5-Trinitrobenzene	9.98	0.03	305868m	6.75	0.050	U	
1,3-Dinitrobenzene			0		0.0085	U	
3,5-Dinitroaniline			0		0.013	U	
TETRYL			0d		0.042	U	
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0		0.024	U	
4-Amino-2,6-dinitrotoluene			0		0.016	U	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	
2,6-Dinitrotoluene			0d		0.054	U	
2,4-Dinitrotoluene			0d		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor**

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000211.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 06:56:40  
 Operator : CFS  
 Sample : K1503815-006  
 Misc :  
 ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:52:20 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.407	135172938	4399.090	ug/L
Target Compounds				
1) T HMX	4.207f	5356346	347.395	ug/L m
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	9.981	305868	6.753	ug/L m
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L d
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

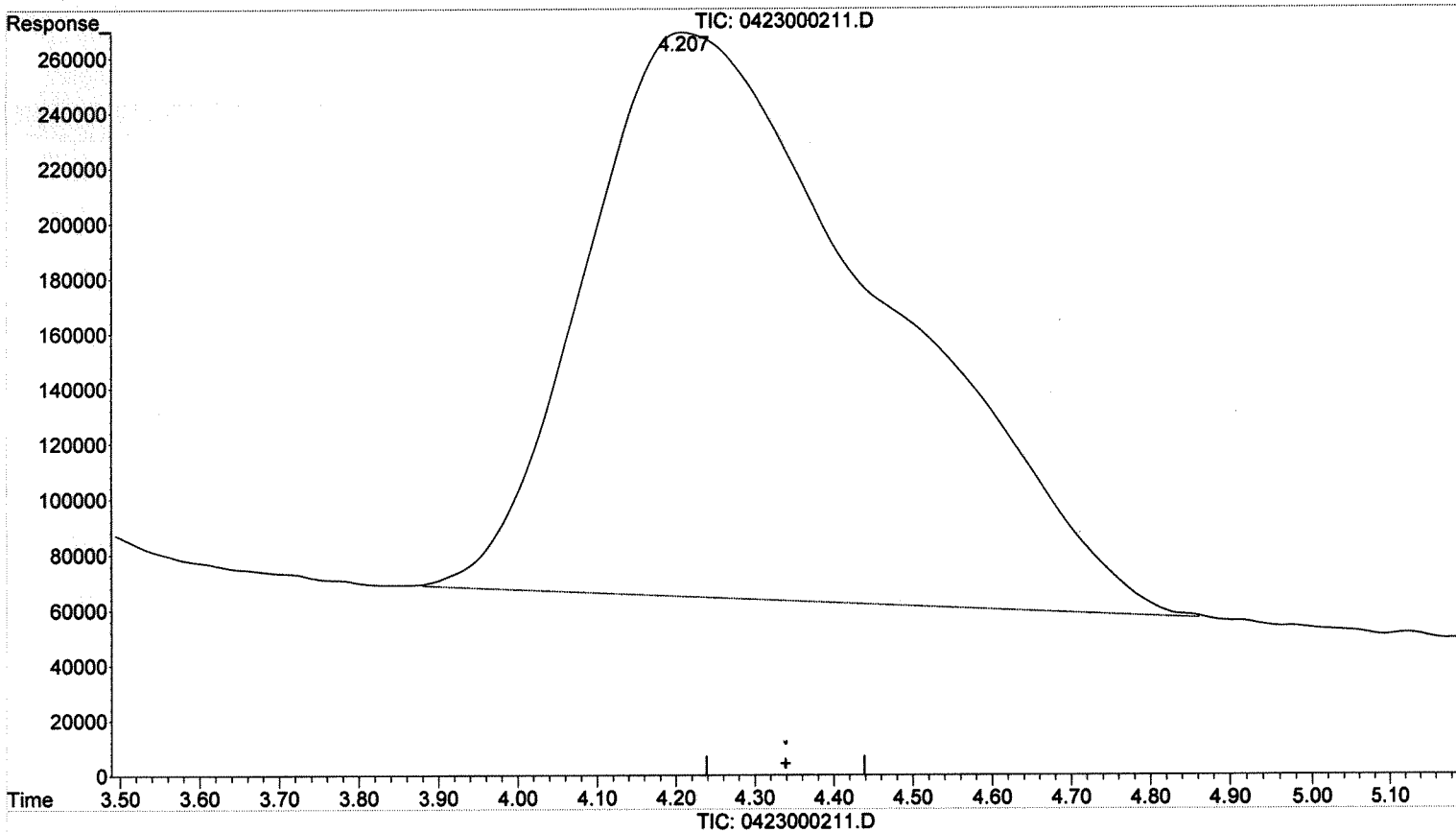
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000211.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 06:56:40  
Operator : CFS  
Sample : K1503815-006  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:01 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



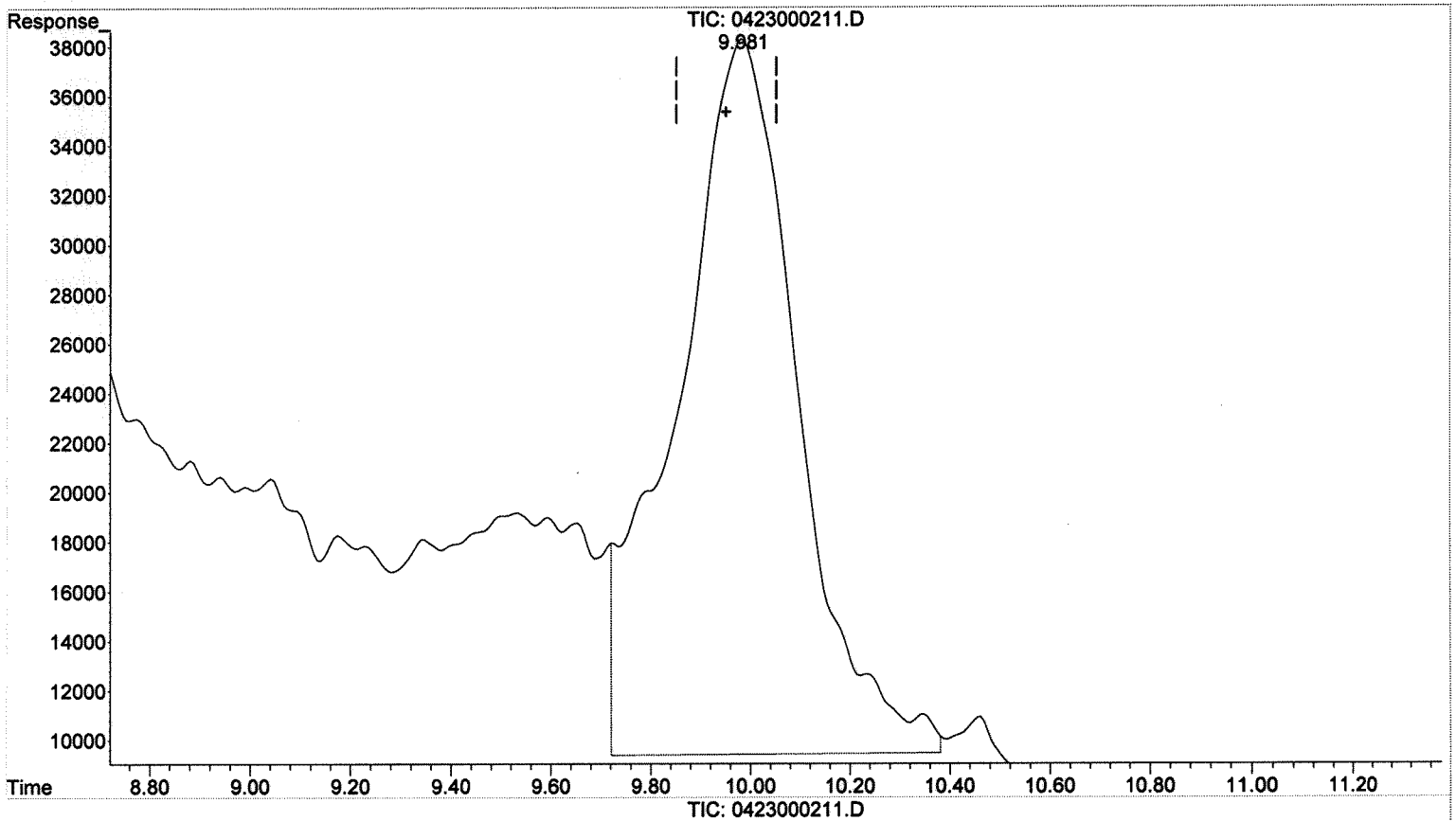
(1) HMX (T)  
4.207min 347.395 ug/L m  
response 5356346

Manual Integration:  
After  
MP  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000211.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 06:56:40  
Operator : CFS  
Sample : K1503815-006  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:01 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.981min 10.677 ug/L  
response 483560

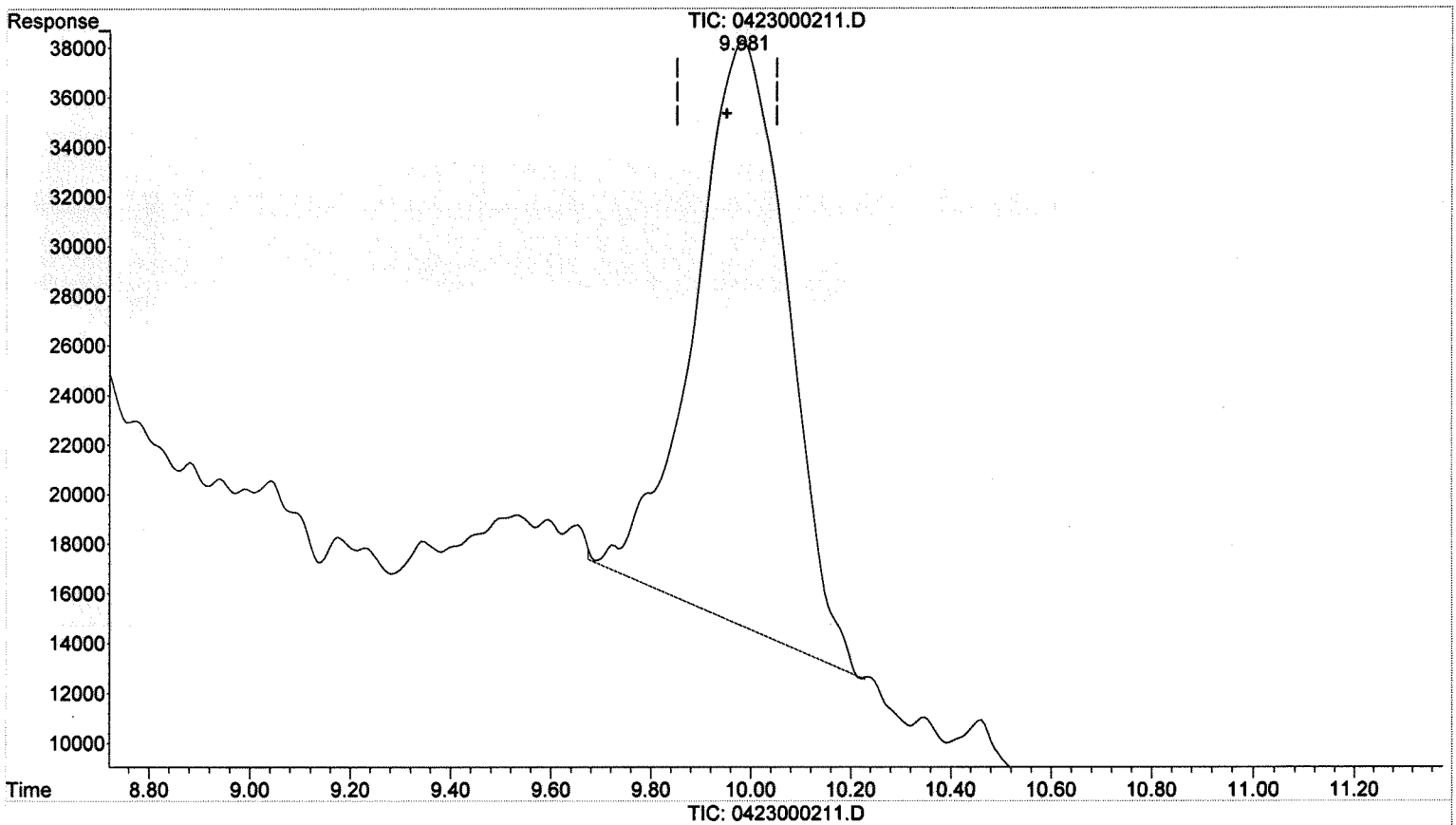
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000211.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 06:56:40  
Operator : CFS  
Sample : K1503815-006  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:01 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



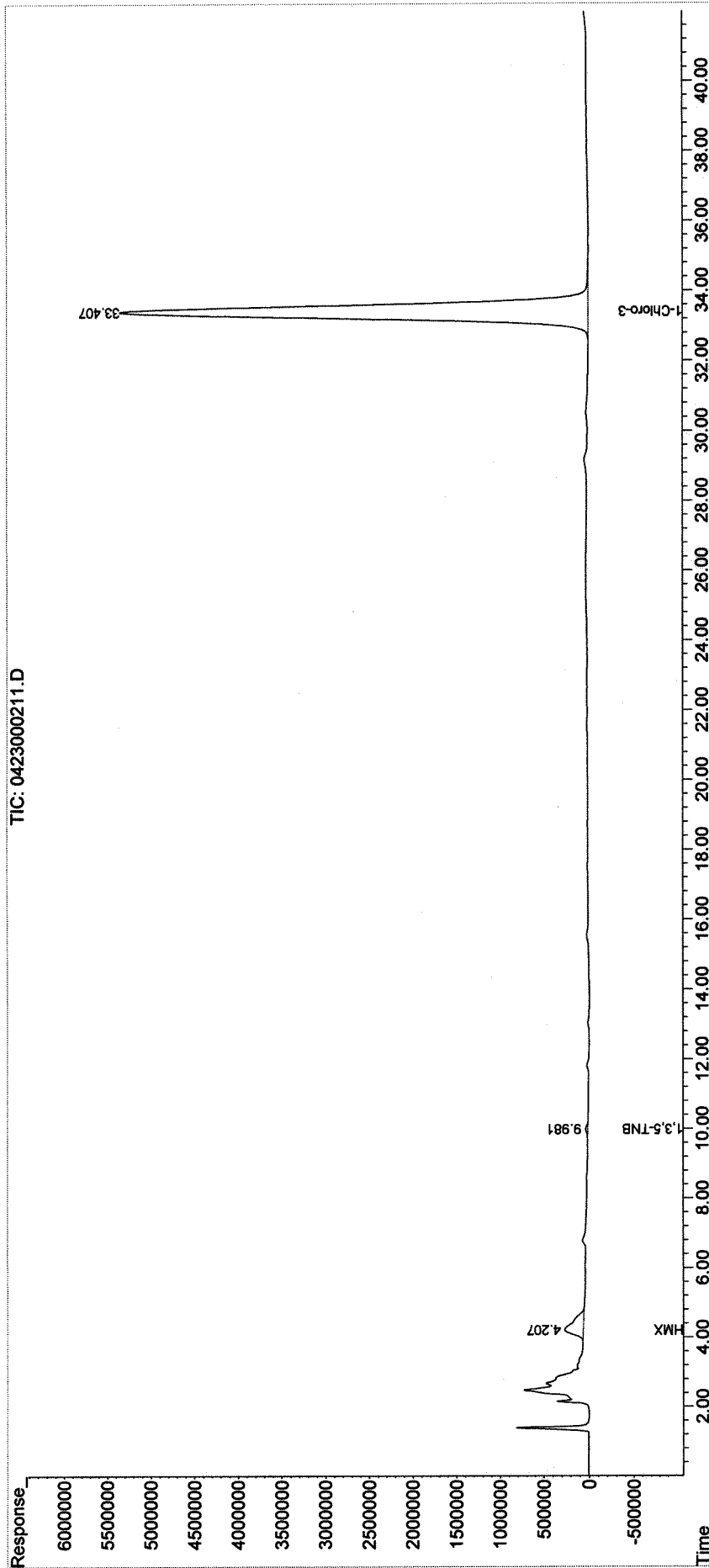
(3) 1,3,5-TNB (T)  
9.981min 6.753 ug/L m  
response 305868

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000211.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 06:56:40  
Operator : CFS  
Sample : K1503815-006  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:52:20 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000211.D  
**Lab ID:** K1503815-006  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 06:56  
**Date Quantitated:** 05/12/2015 09:07  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review:      *MS 5/12/15*

Secondary Review:      *MS 5.12.15*

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\210\0423000211.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 06:56	<b>Quant Date:</b>	05/12/2015 09:07
<b>Run Type:</b>	SMPL	<b>Vial:</b>	58
<b>Lab ID:</b>	K1503815-006	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	02	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/13/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503922	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427789	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13892
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
<b>MB Ref:</b>	J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b>	MJ1278
		<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.41	-0.03	354617393	4,273	85	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0d		0.18	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000211.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 06:56:40  
 Operator : CFS  
 Sample : K1503815-006  
 Misc :  
 ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:07:26 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	33.407	354617393	4273.444	ug/L
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L d
-----				

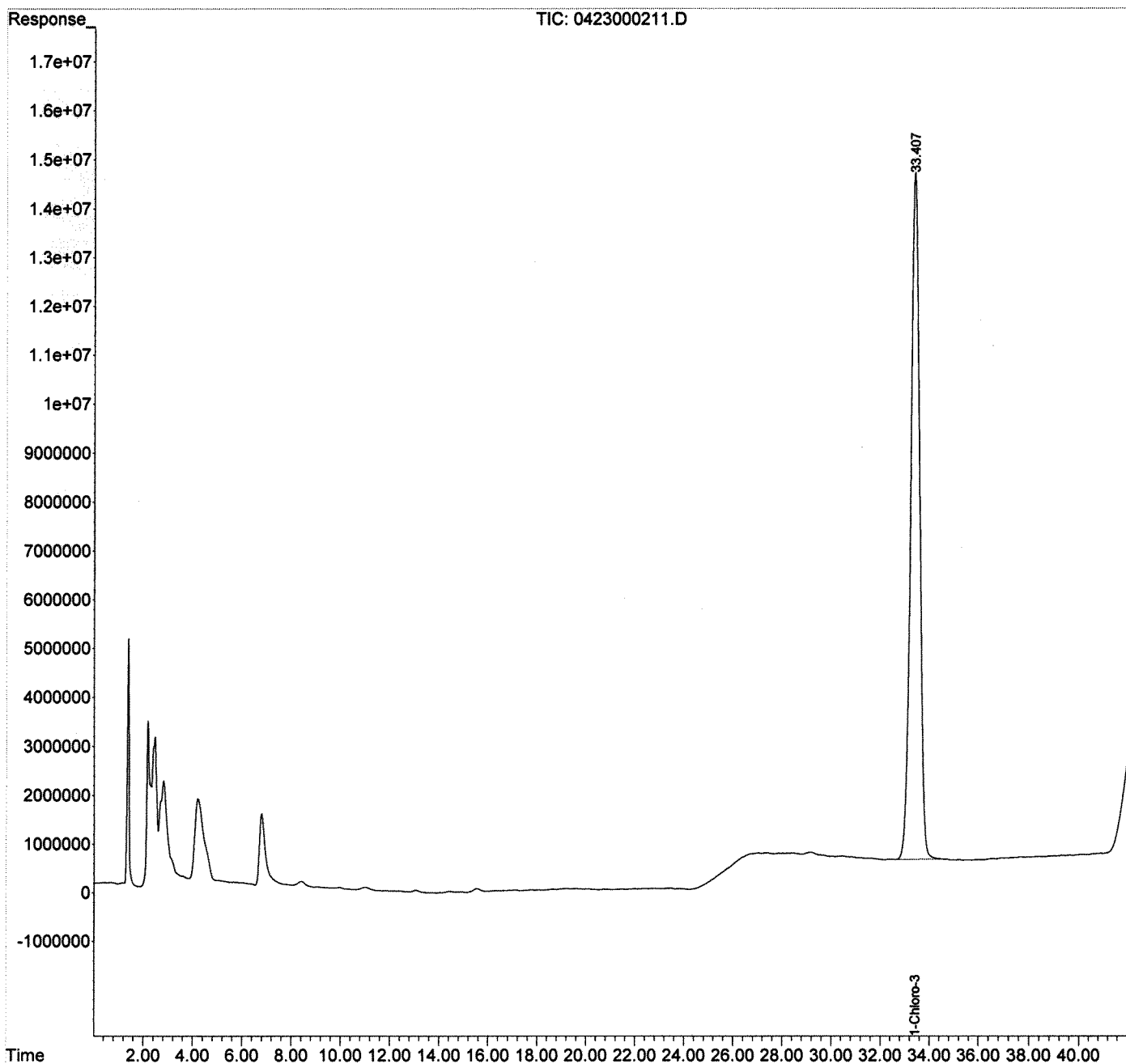
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000211.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 06:56:40  
Operator : CFS  
Sample : K1503815-006  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:07:26 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000111.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 07:21:33  
 Operator : CFS  
 Sample : K1503815-006  
 Misc :  
 ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 08:56:54 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

*1040 mL → 4 mL*

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
11) S 1-Chloro-3-Nitrobenzene	32.528	131028943	4751.616	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L <i>NC</i>
2) T RDX	0.000	0	N.D.	ug/L
3) T Nitrobenzene	0.000	0	N.D.	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	0.000	0	N.D.	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L
-----				

(f)=RT Delta > 1/2 Window

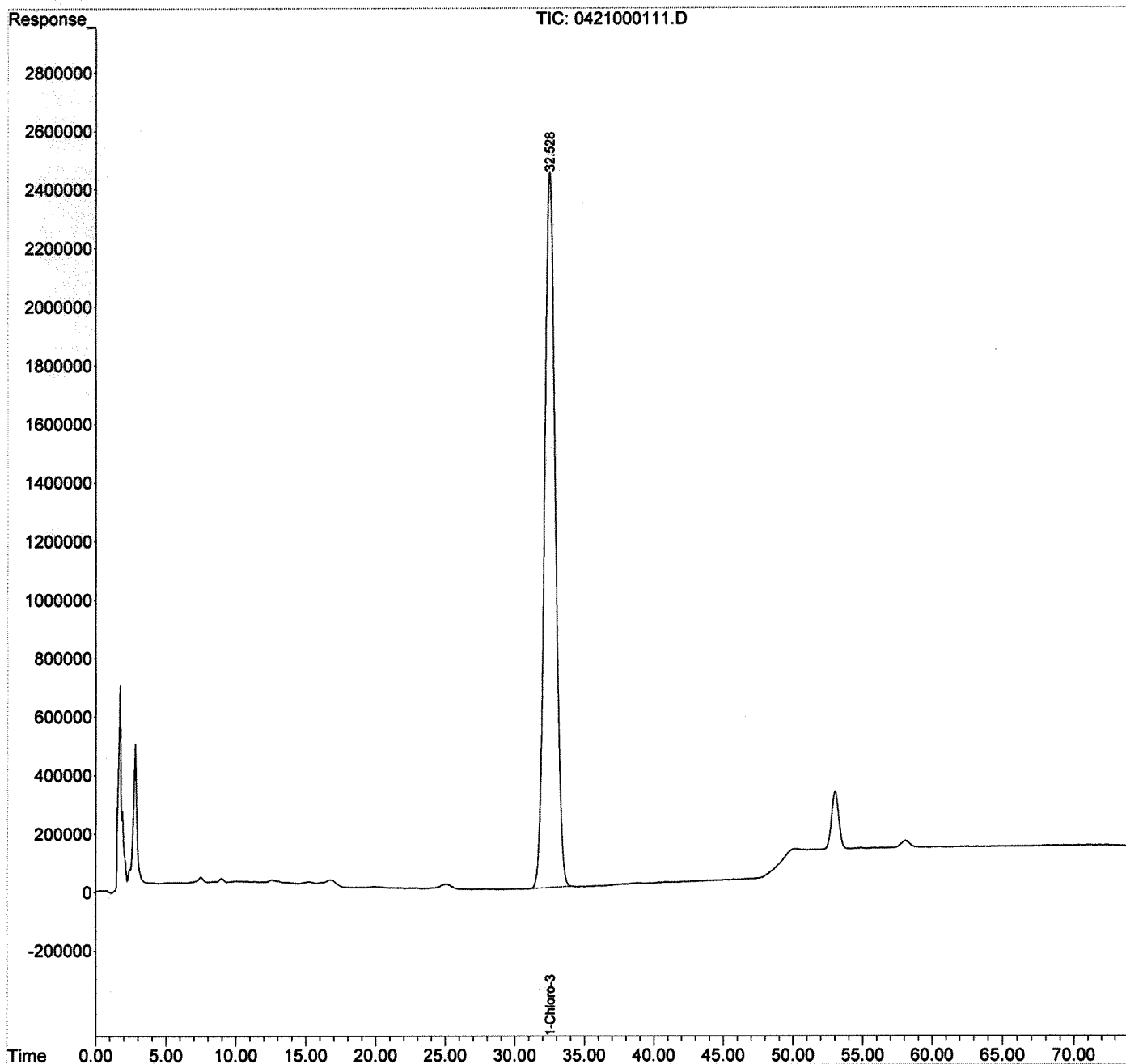
(m)=manual int.

*See 515115*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000111.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 07:21:33  
Operator : CFS  
Sample : K1503815-006  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:54 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000212.D  
**Lab ID:** K1503815-007  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 08:07  
**Date Quantitated:** 05/01/2015 13:56  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank	HMX	0.58	NA	0.10	<i>continue</i>
Surrogates	1-Chloro-3-nitrobenzene	104	23	98	<i>* high bias</i>

*AVL  
5/14/15*

Primary Review: *lea 5/15/15*

Secondary Review: *QA 5.12.15*

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\254\0423000212.D	<b>Instrument:</b>	LC10
<b>Acq Date:</b>	04/24/2015 08:07	<b>Quant Date:</b>	05/01/2015 13:56
<b>Run Type:</b>	SMPL	<b>Vial:</b>	59
<b>Lab ID:</b>	K1503815-007	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	02	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/14/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503923	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427790	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>	J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.37	-0.07	159562476	5,193	104	23-98	* -

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.32	-0.02	2392575m	155.18	0.61	B	J .5
RDX	7.16	0.01	1172820m	52.69	0.21	U	c
1,3,5-Trinitrobenzene	9.96	0.01	284606m	6.28	0.050	U	JG/Andr
1,3-Dinitrobenzene			0d		0.0085	U	
3,5-Dinitroaniline			0		0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0d		0.024	U	
4-Amino-2,6-dinitrotoluene			0		0.016	U	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	
2,6-Dinitrotoluene			0		0.054	U	
2,4-Dinitrotoluene			0d		0.0091	U	
2-Nitrotoluene			0		0.032	U	
4-Nitrotoluene			0		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1020 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 F: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 ? : Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000212.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 08:07:26  
 Operator : CFS  
 Sample : K1503815-007  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:56:40 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.370	159562476	5192.827	ug/L
Target Compounds				
1) T HMX	4.323	2392575	155.175	ug/L m
2) T RDX	7.157	1172820	52.688	ug/L m
3) T 1,3,5-TNB	9.957	284606	6.284	ug/L m
4) T 1,3-DNB	0.000	0	N.D.	ug/L d
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L d
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

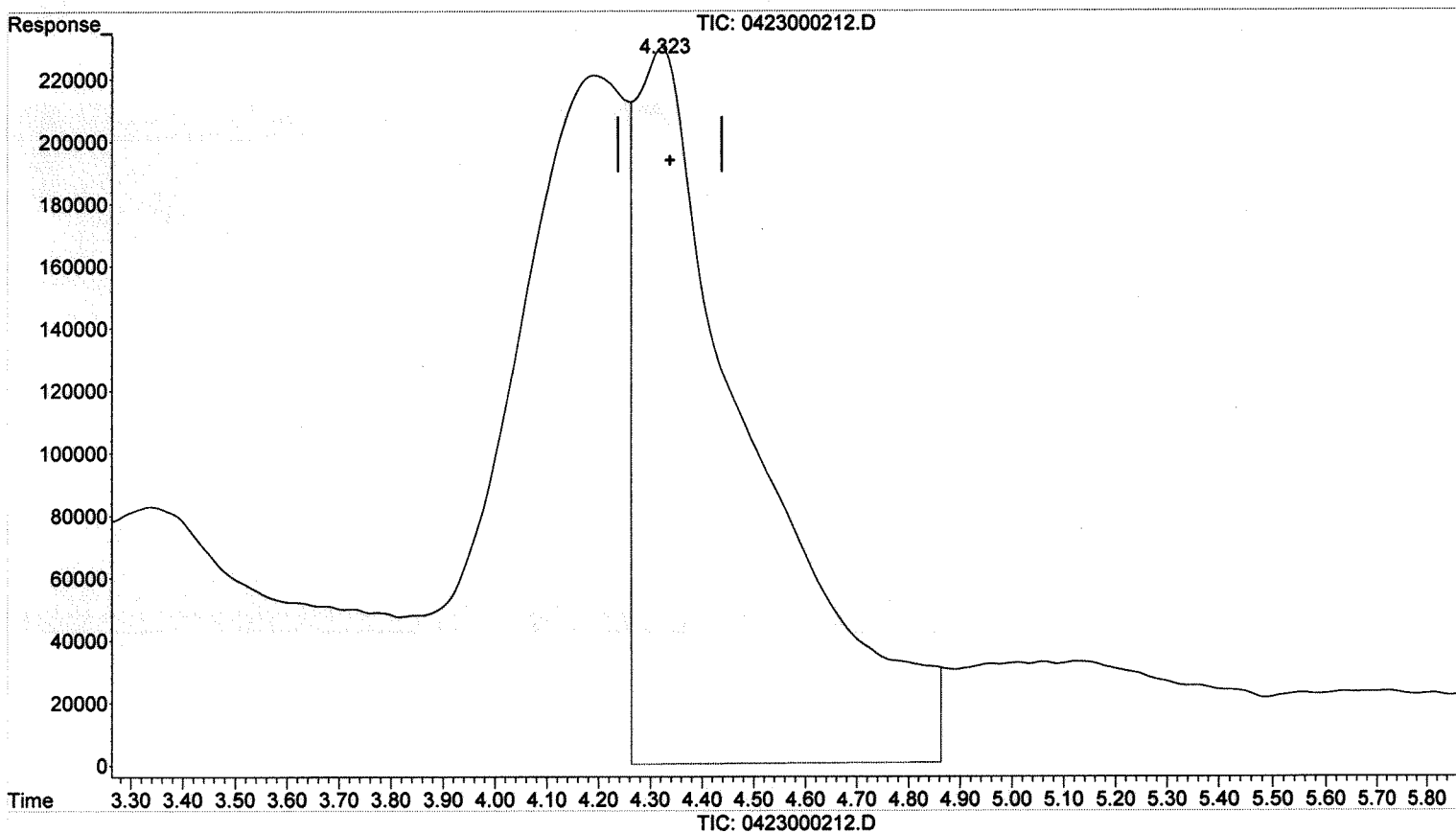
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000212.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 08:07:26  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:03 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.323min 230.141 ug/L  
response 3548456

Manual Integration:

Before

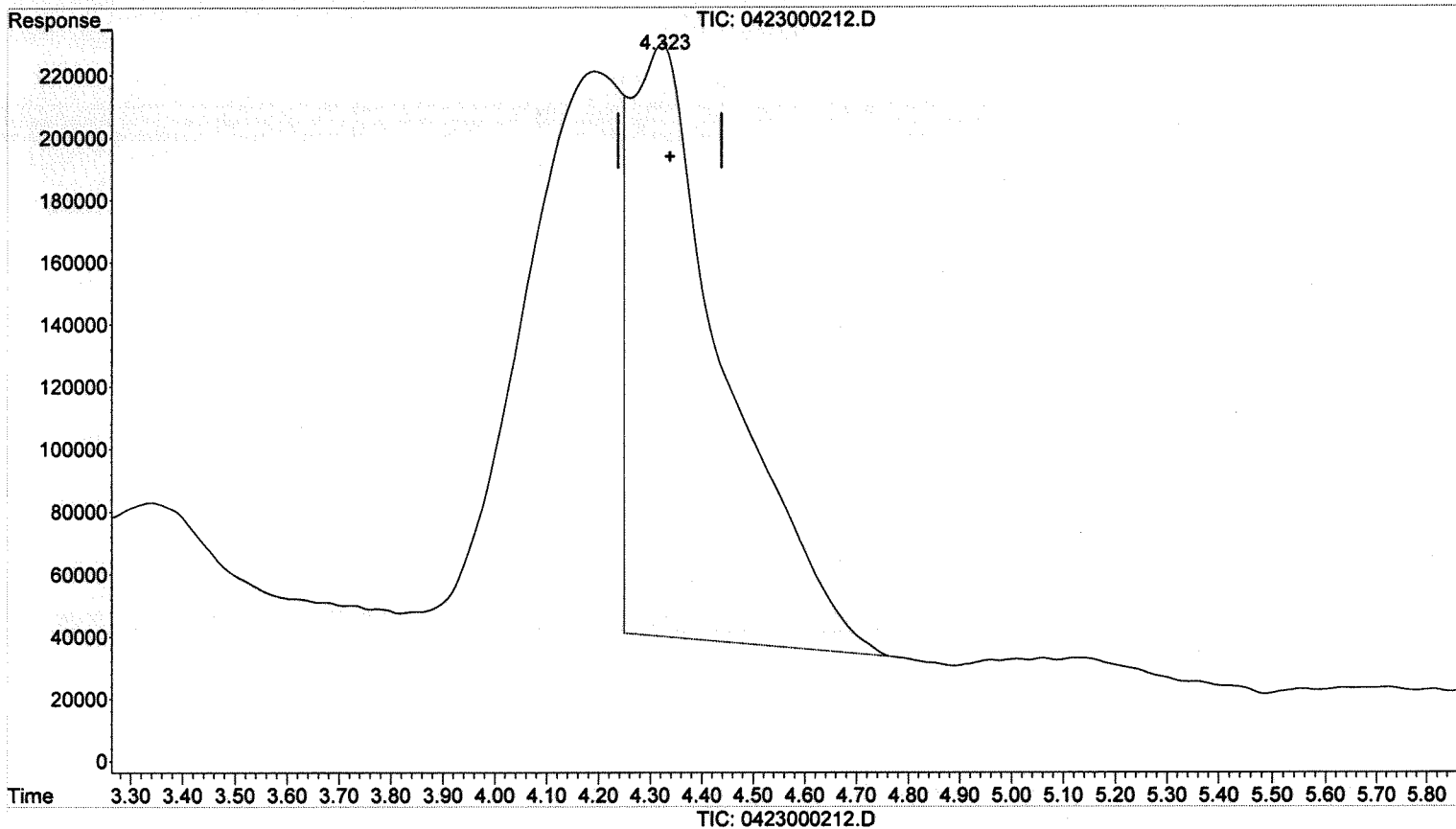
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000212.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 08:07:26  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:03 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



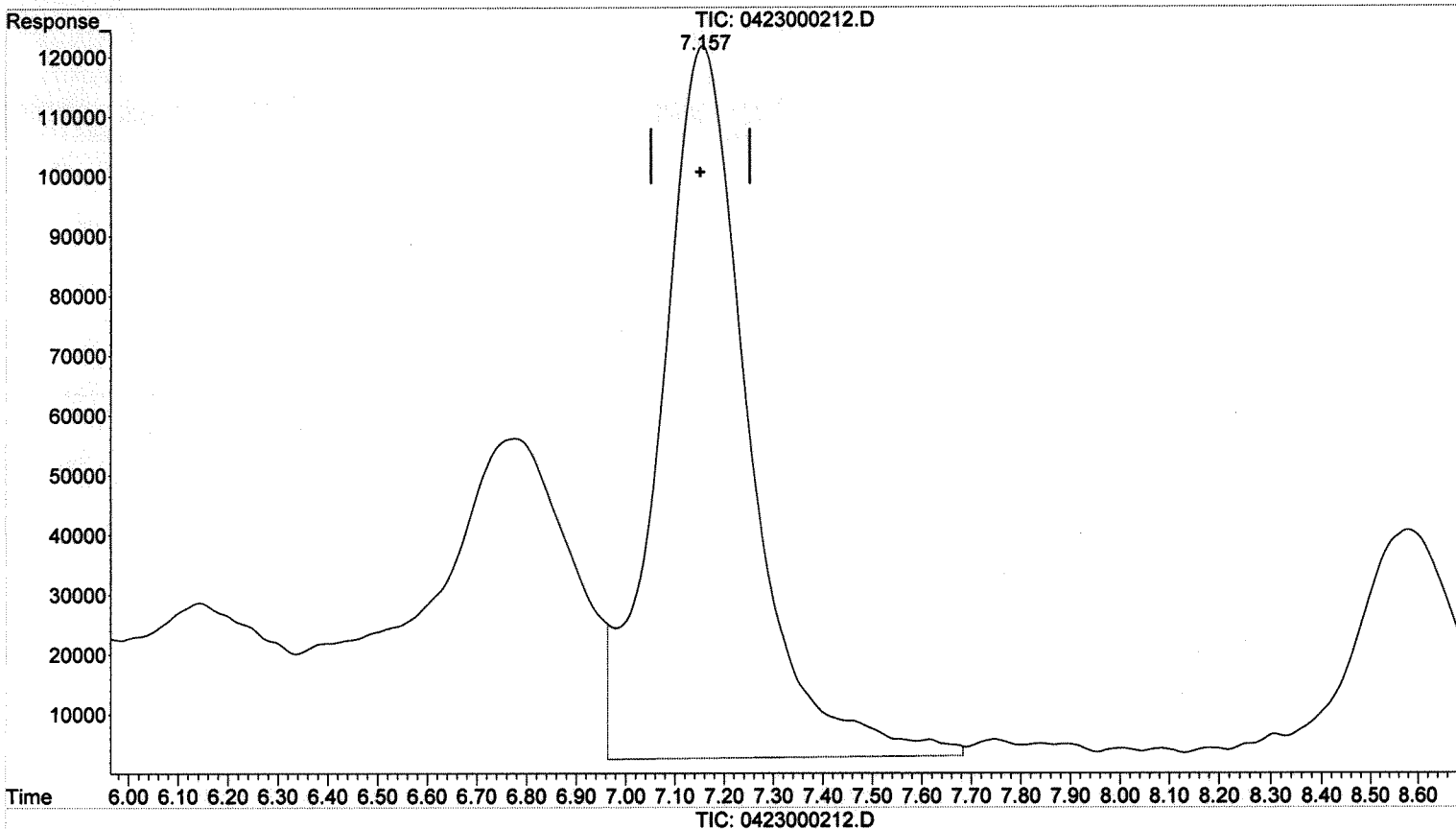
(1) HMX (T)  
4.323min 155.175 ug/L m  
response 2392575

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000212.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 08:07:26  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:03 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.157min 67.970 ug/L  
response 1478688

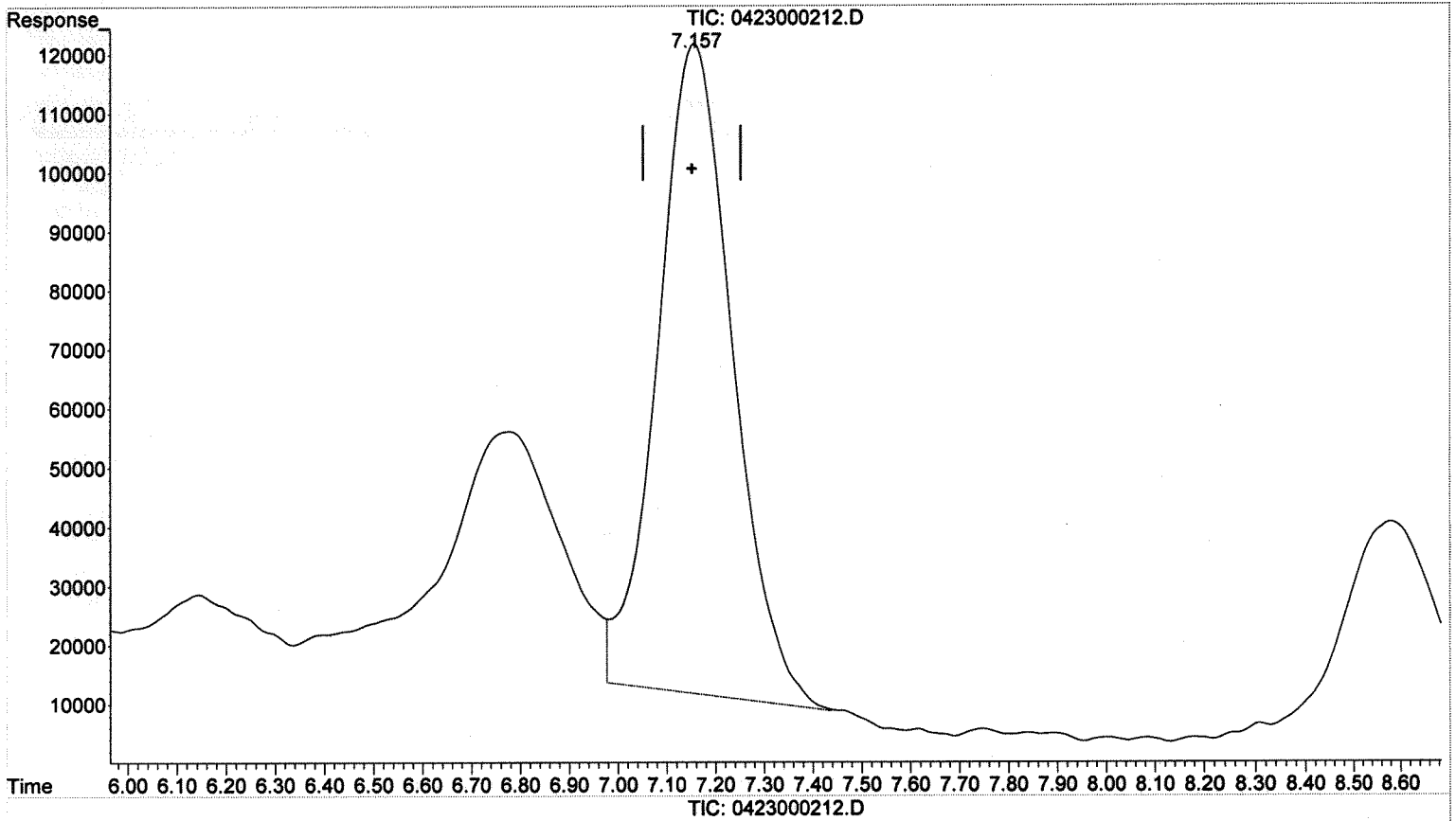
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000212.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 08:07:26  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:03 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



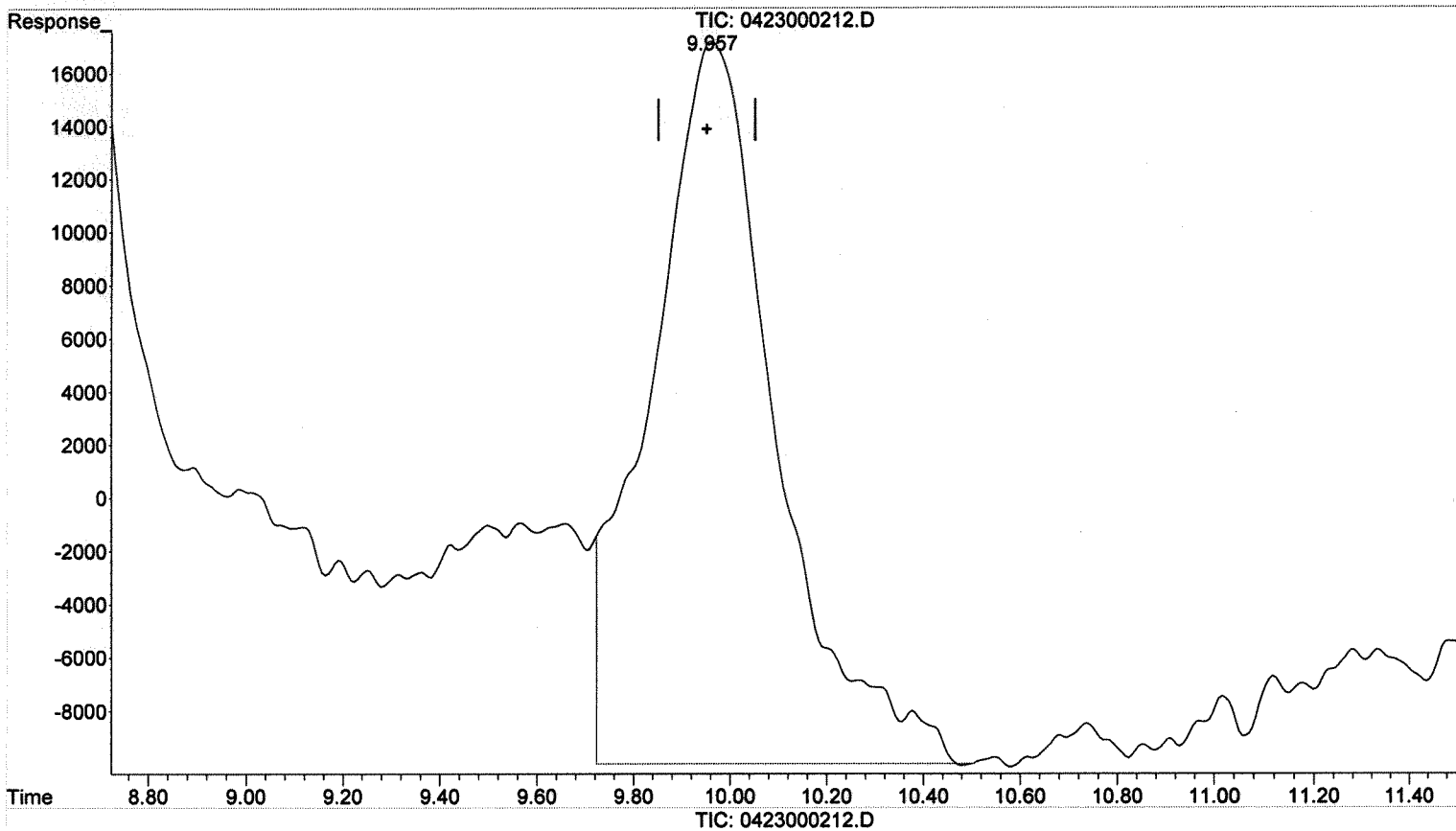
(2) RDX (T)  
7.157min 52.688 ug/L m  
response 1172820

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000212.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 08:07:26  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:03 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.957min 10.772 ug/L  
response 487890

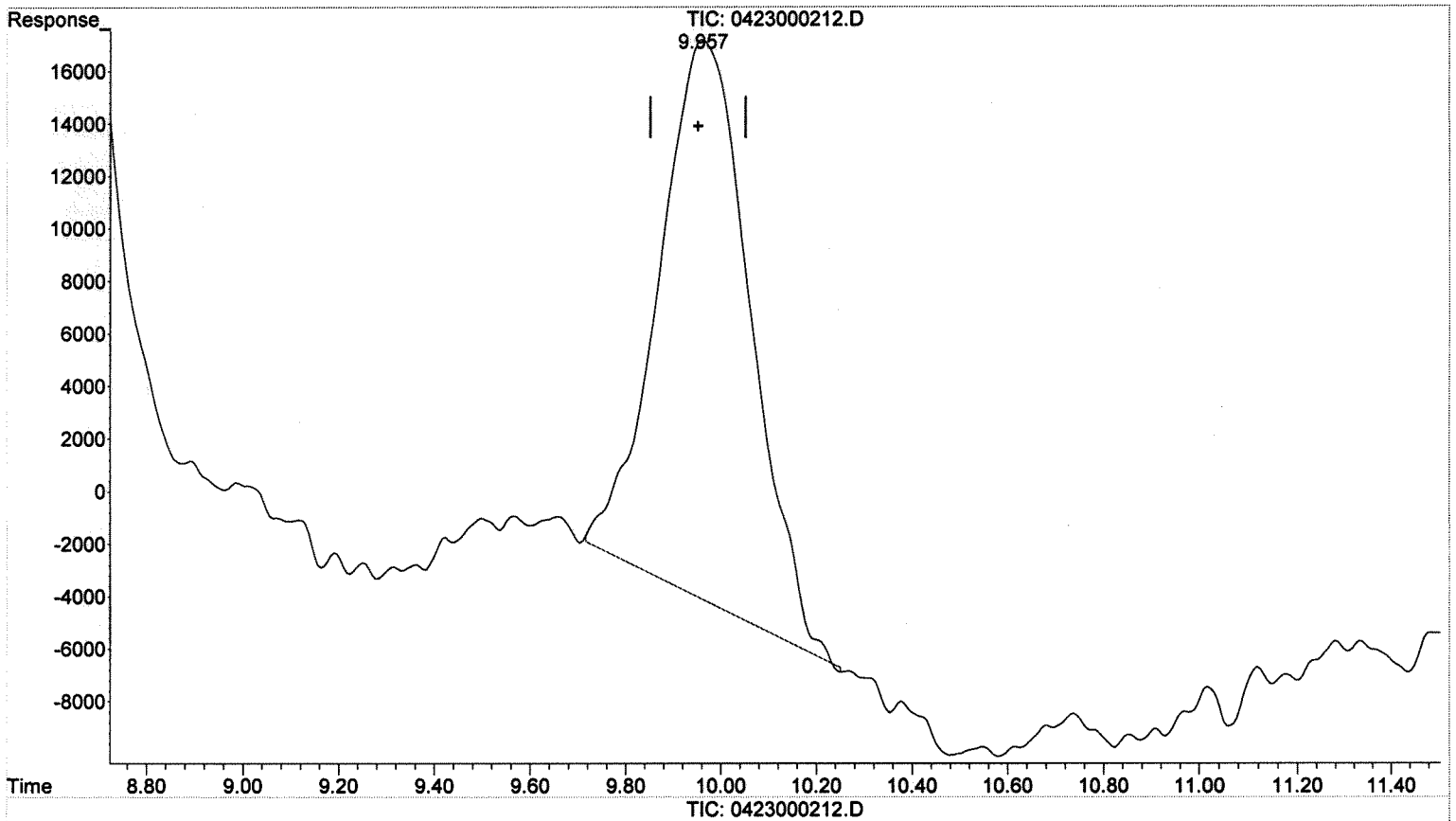
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000212.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 08:07:26  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:03 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



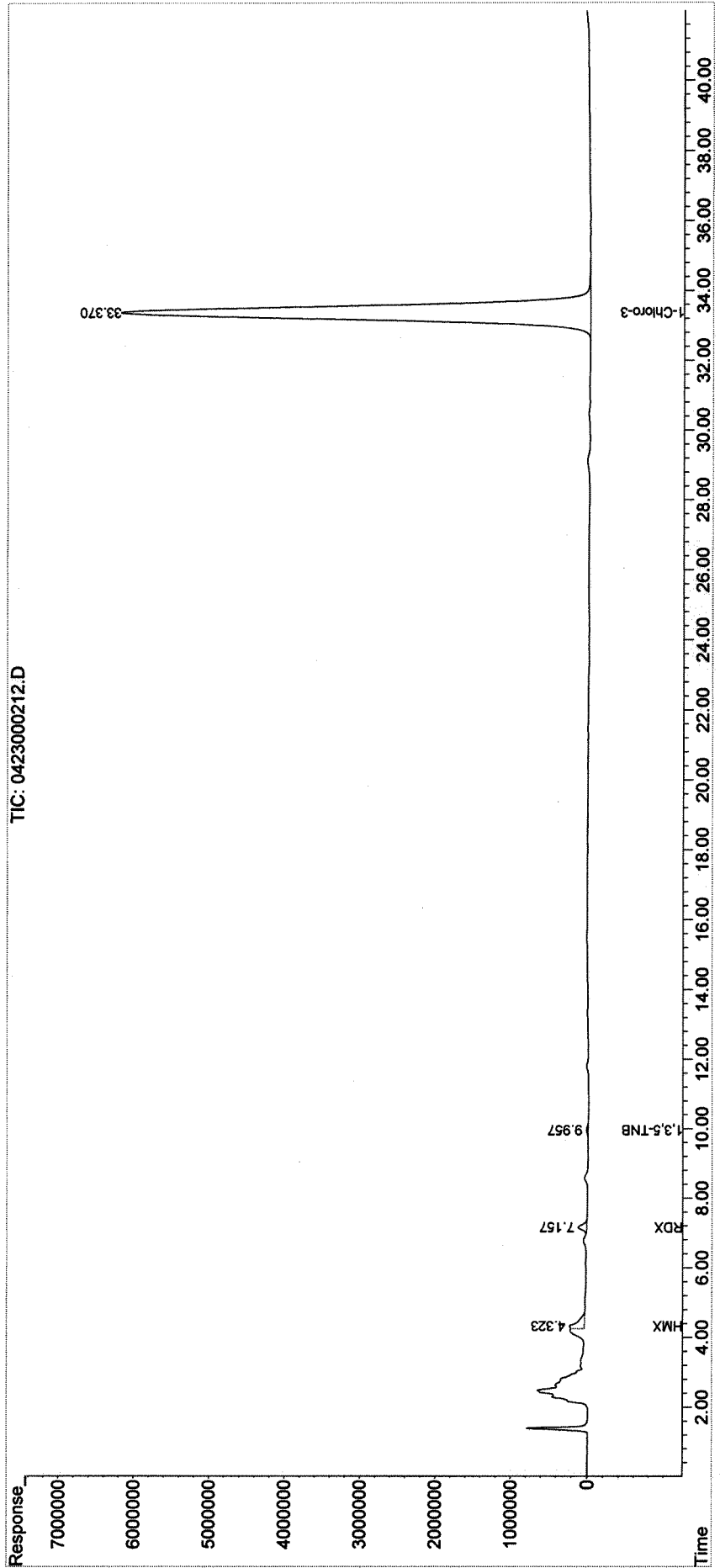
(3) 1,3,5-TNB (T)  
9.957min 6.284 ug/L m  
response 284606

Manual Integration:  
After  
BLC  
05/01/15 *[Signature]*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000212.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 08:07:26  
Operator : CFS  
Sample : KI503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:56:40 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
Quant Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000212.D  
**Lab ID:** K1503815-007  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 08:07  
**Date Quantitated:** 05/12/2015 09:07  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Surrogates	1-Chloro-3-nitrobenzene	101	23	98	slight high bias

Primary Review: lu 5/12/15  
 Secondary Review: QA 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000212.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 08:07	<b>Quant Date:</b> 05/12/2015 09:07
<b>Run Type:</b> SMPL	<b>Vial:</b> 59
<b>Lab ID:</b> K1503815-007	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/14/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427790	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.37	-0.07	417378039	5,030	101	23-98 * ,	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0d		0.18	U	

**Prep Amount:** 1020 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000212.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 08:07:26  
 Operator : CFS  
 Sample : K1503815-007  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:07:33 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	33.370	417378039	5029.763	ug/L
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L d
-----				

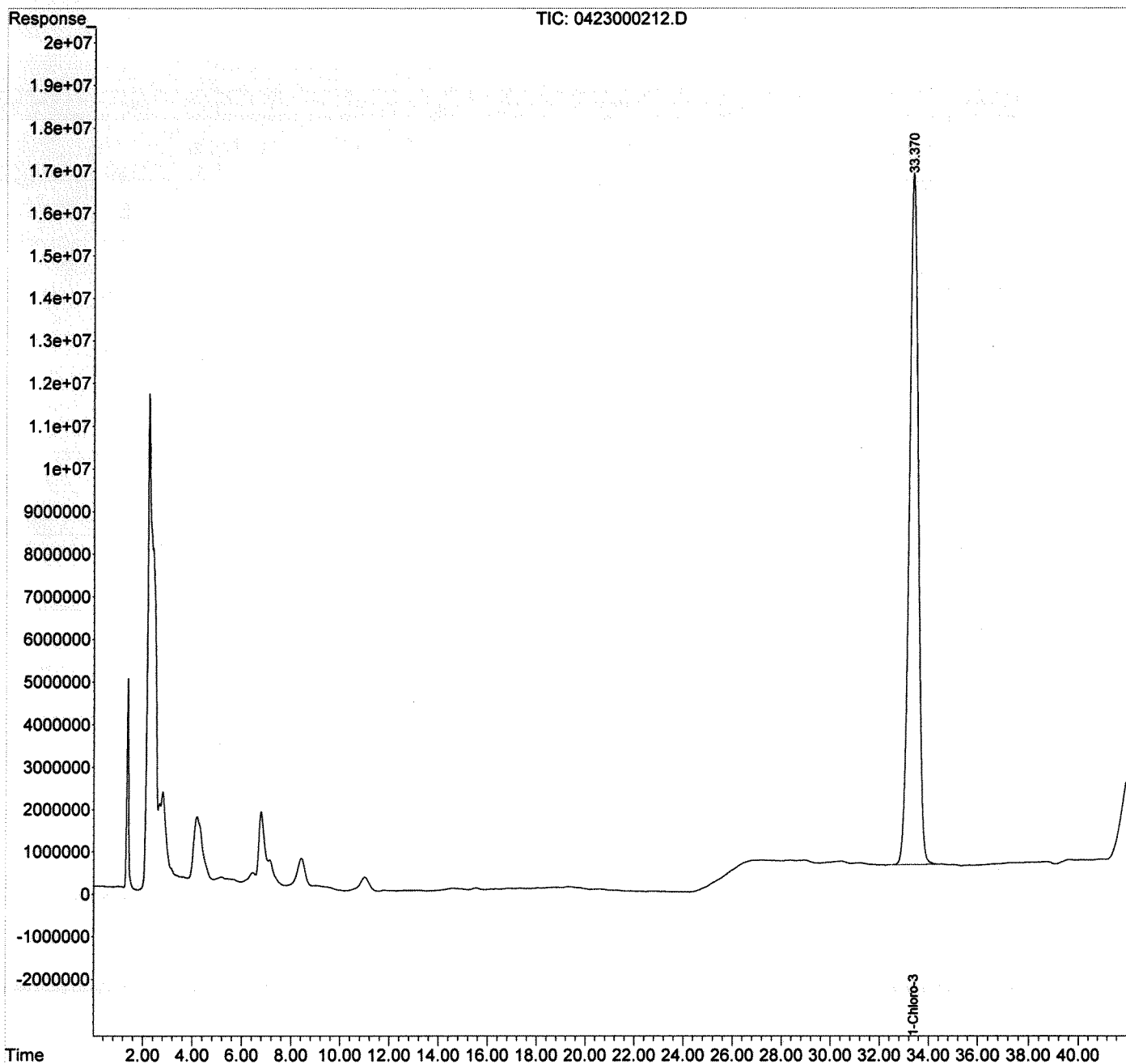
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000212.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 08:07:26  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:07:33 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000112.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 08:57:52  
 Operator : CFS  
 Sample : K1503815-007  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 13:58:47 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

*1020mL → 4mL*

*Sx  
 conc  
 (ug/L)*

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
11) S 1-Chloro-3-Nitrobenzene	32.444	153178563	5554.847 ug/L
<b>Target Compounds</b>			
1) T HMX	6.082	464524	28.616 ug/L m
2) T RDX	7.075	1378490	70.178 ug/L m
3) T Nitrobenzene	0.000	0	N.D. ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D. ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D. ug/L
6) T 2-NT	0.000	0	N.D. ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D. ug/L
8) T 3-NT	0.000	0	N.D. ug/L
9) T 1,3-DNB	0.000	0	N.D. ug/L
10) T 4-NT	0.000	0	N.D. ug/L
12) T 2,6-DNT	0.000	0	N.D. ug/L
13) T 2,4-DNT	0.000	0	N.D. ug/L
14) T Tetryl	0.000	0	N.D. ug/L
15) T 1,3,5-TNB	0.000	0	N.D. ug/L
16) T 2,4,6-TNT	0.000	0	N.D. ug/L

*0.11 J  
 0.28 C*

(f)=RT Delta > 1/2 Window

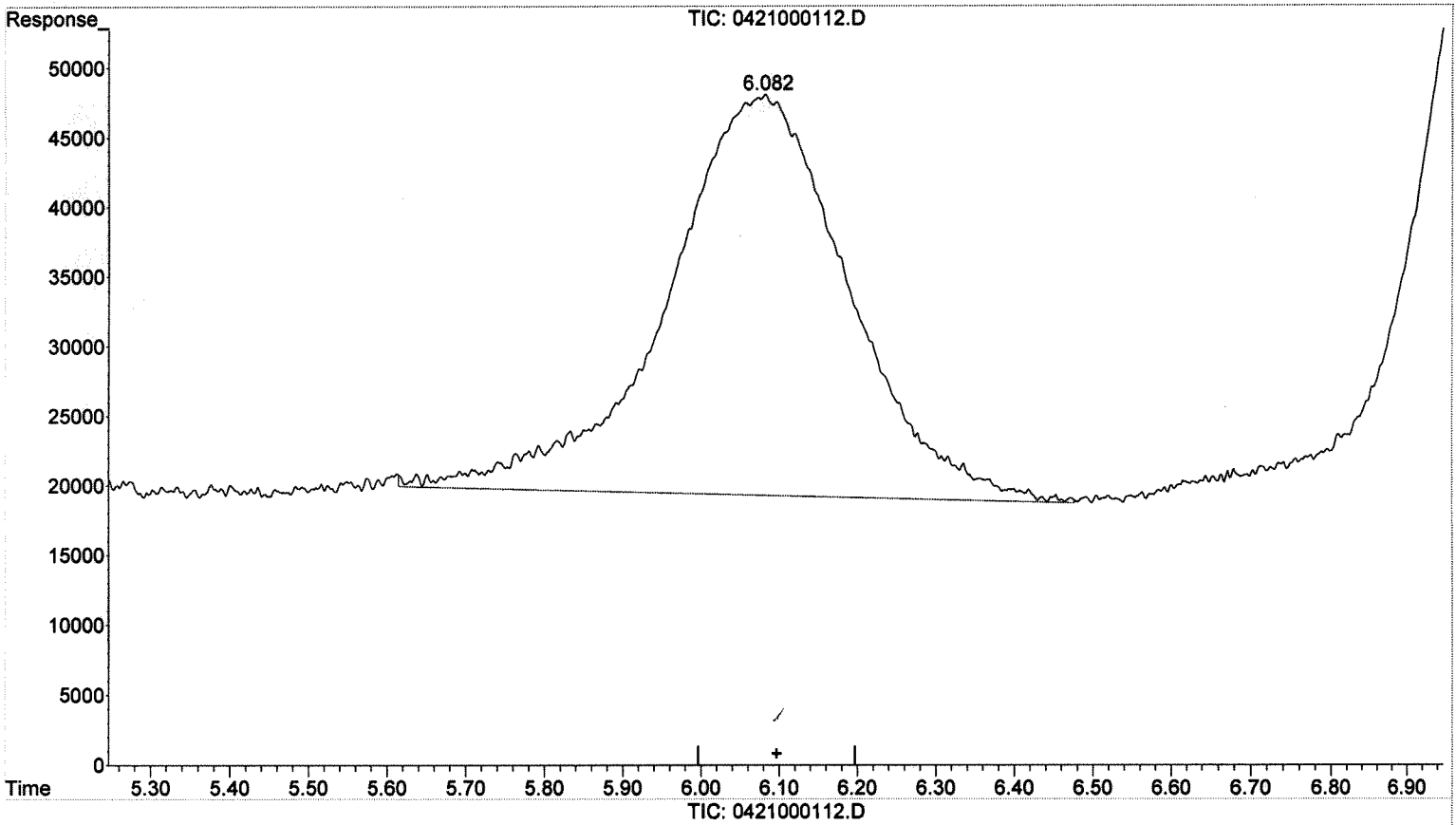
(m)=manual int.

*Qu 5/15/15*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000112.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 08:57:52  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:56 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



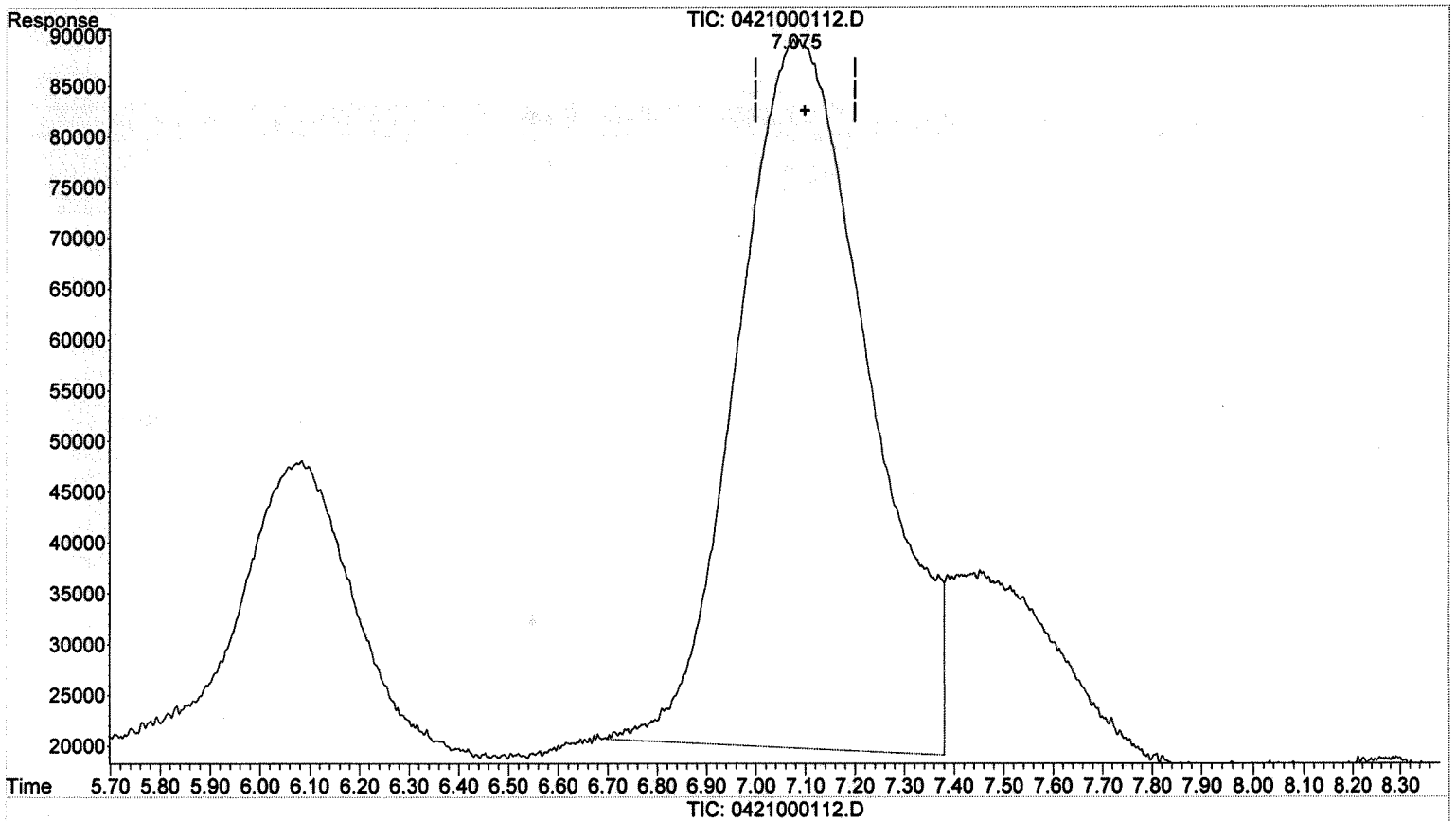
(1) HMX (T)  
6.082min 28.616 ug/L m  
response 464524

Manual Integration:  
After  
MP  
05/05/15

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000112.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 08:57:52  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:56 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)  
7.075min 65.448 ug/L  
response 1285581

Manual Integration:  
Before

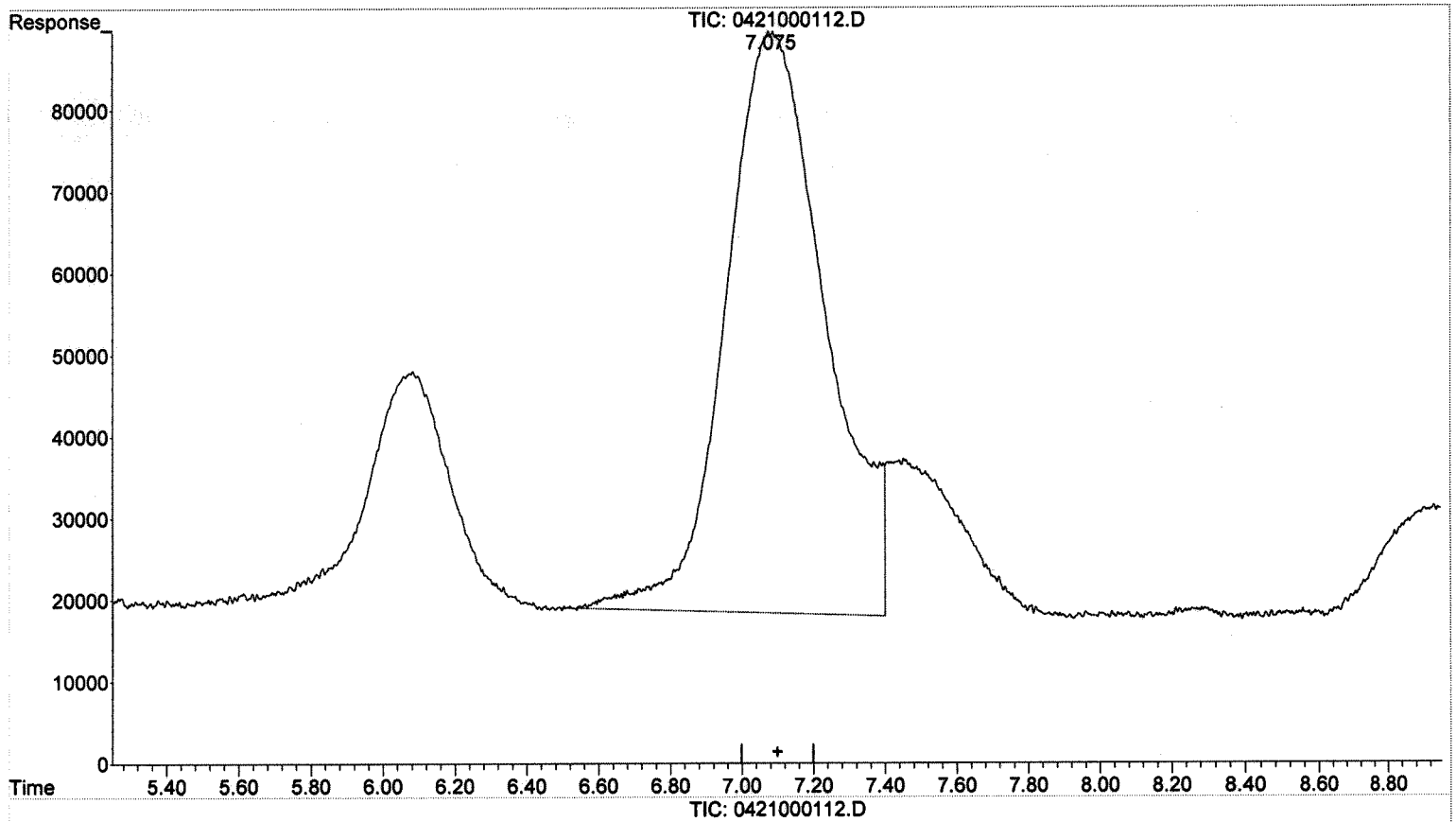
05/05/15



Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000112.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 08:57:52  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:56 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



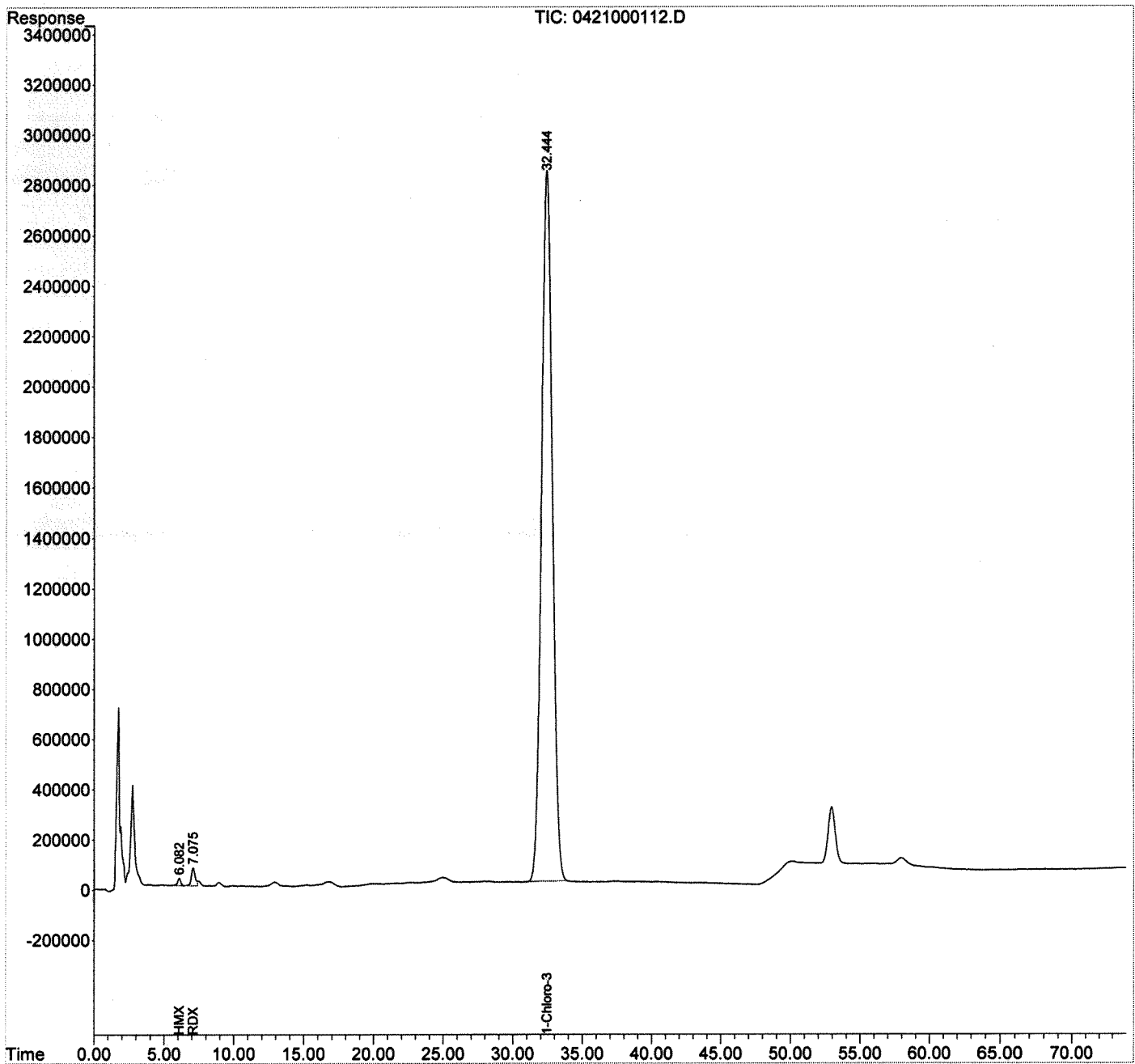
(2) RDX (T)  
7.075min 70.178 ug/L m  
response 1378490

Manual Integration:  
After  
BLC  
05/05/15

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000112.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 08:57:52  
Operator : CFS  
Sample : K1503815-007  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 13:58:47 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000213.D  
**Lab ID:** K1503815-008  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 09:18  
**Date Quantitated:** 05/01/2015 13:57  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank	HMX	0.58	NA	0.10	<i>confirm</i>
Retention Time	HMX	-0.12	NA	0.10	<i>↓</i>

Primary Review: *la 5/5/15*

Secondary Review: *QA 5/12/15*



# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000213.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 09:18	<b>Quant Date:</b> 05/01/2015 13:57
<b>Run Type:</b> SMPL	<b>Vial:</b> 60
<b>Lab ID:</b> K1503815-008	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 01	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427791	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.38	-0.06	133857927	4,356	87	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.22	-0.12*	4441171m	288.04	1.1	B	NC
RDX	7.17	0.02	3046096m	146.27	0.56		C
1,3,5-Trinitrobenzene	9.97	0.02	331129m	7.31	0.050	U	
1,3-Dinitrobenzene	13.34	-0.01	233826	3.82	0.015		J NC
3,5-Dinitroaniline			0d		0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0d		0.024	U	
4-Amino-2,6-dinitrotoluene			0d		0.016	U	
2-Amino-4,6-dinitrotoluene			0d		0.0089	U	
2,6-Dinitrotoluene			0d		0.054	U	
2,4-Dinitrotoluene			0		0.0091	U	
2-Nitrotoluene			0		0.032	U	
4-Nitrotoluene			0		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000213.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 09:18:12  
 Operator : CFS  
 Sample : K1503815-008  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:57:49 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.383	133857927	4356.294	ug/L
Target Compounds				
1) T HMX	4.223f	4441171	288.040	ug/L m
2) T RDX	7.170	3046096	146.271	ug/L m
3) T 1,3,5-TNB	9.970	331129	7.311	ug/L m
4) T 1,3-DNB	13.343	233826	3.824	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L d
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L d
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L d
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L d
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

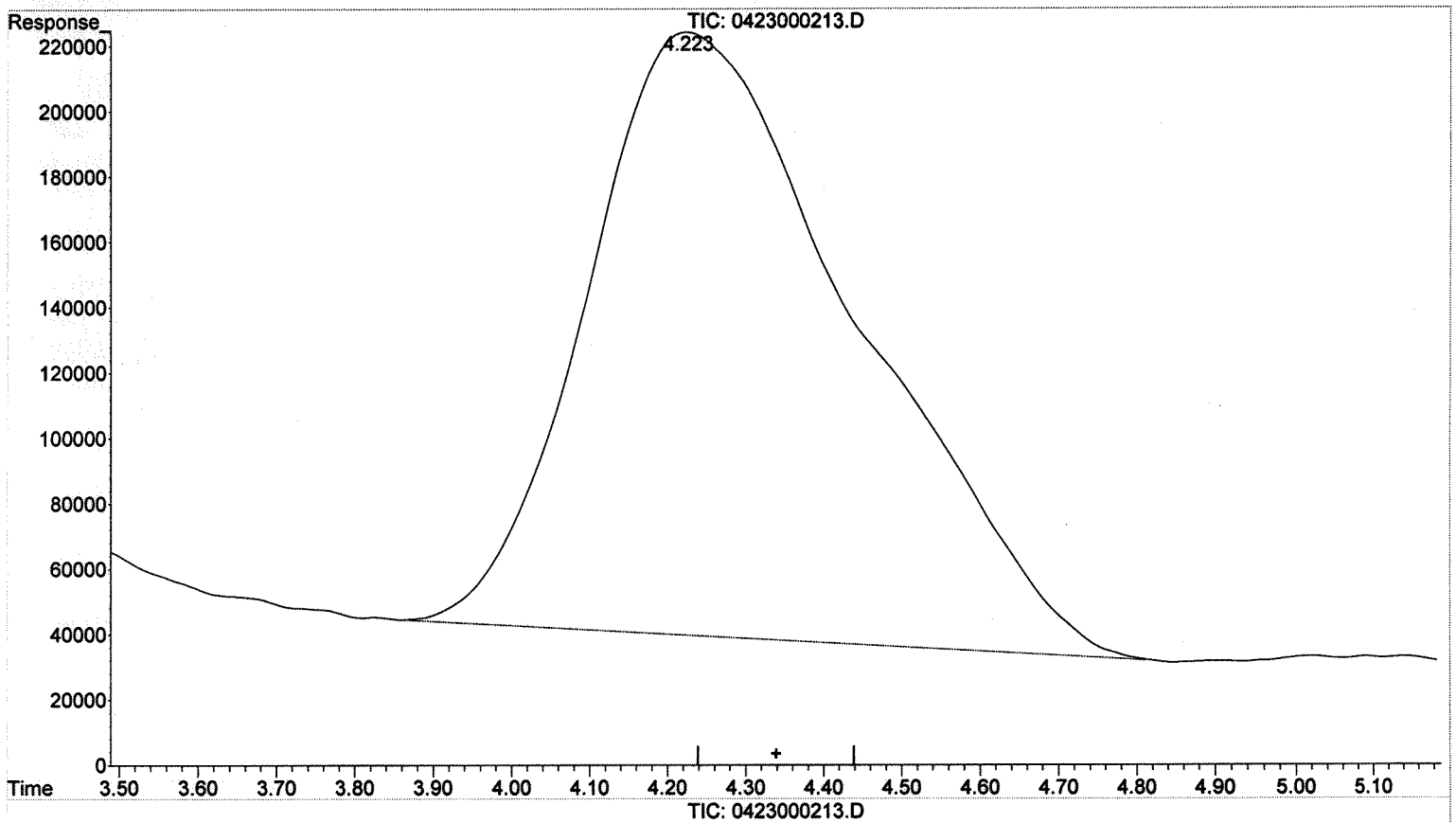
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000213.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 09:18:12  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.223min 288.040 ug/L m  
response 4441171

Manual Integration:

After

MP

05/01/15

*Play*

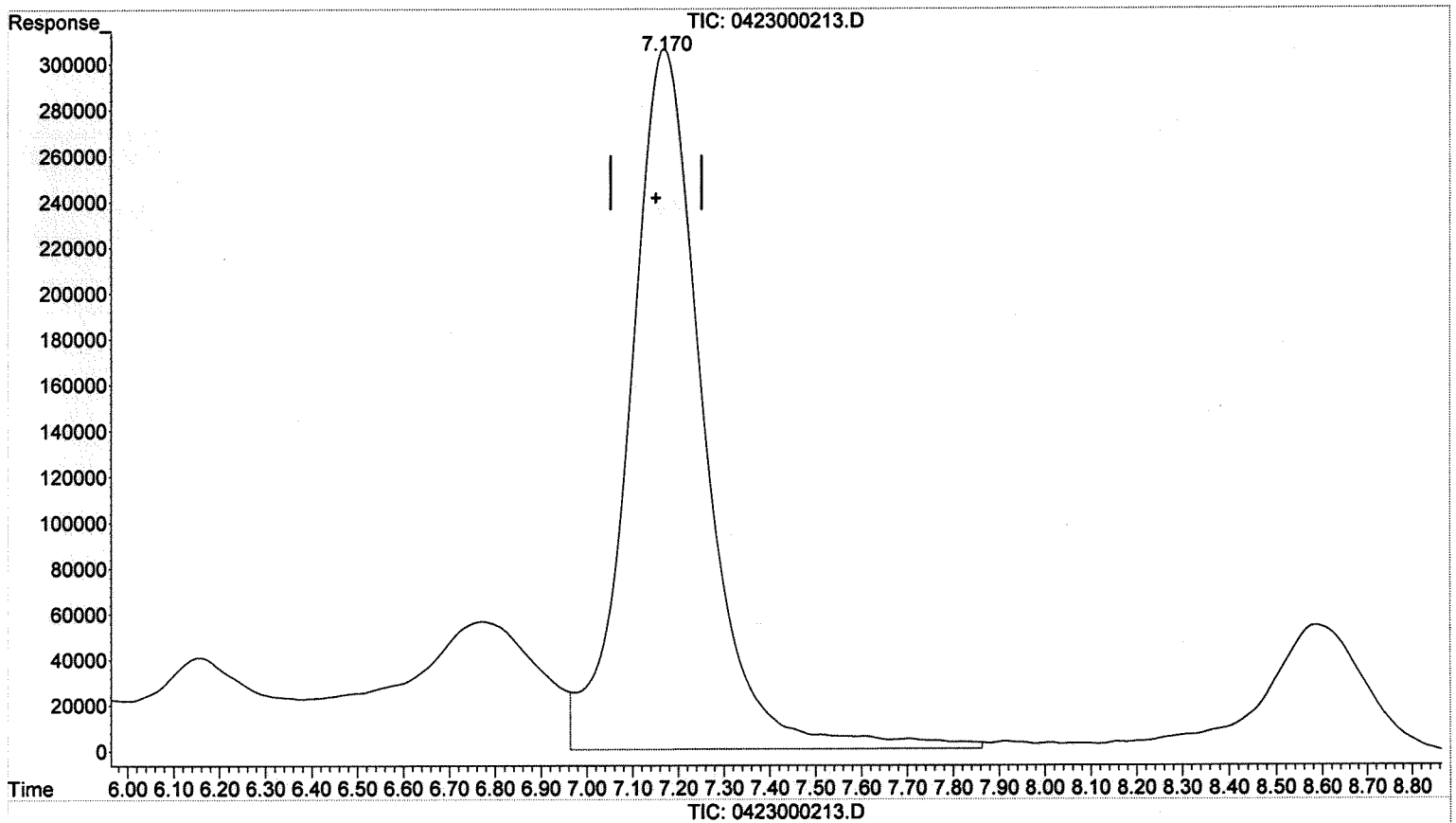
*lu*

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000213.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 09:18:12  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.170min 165.837 ug/L  
response 3437835

Manual Integration:

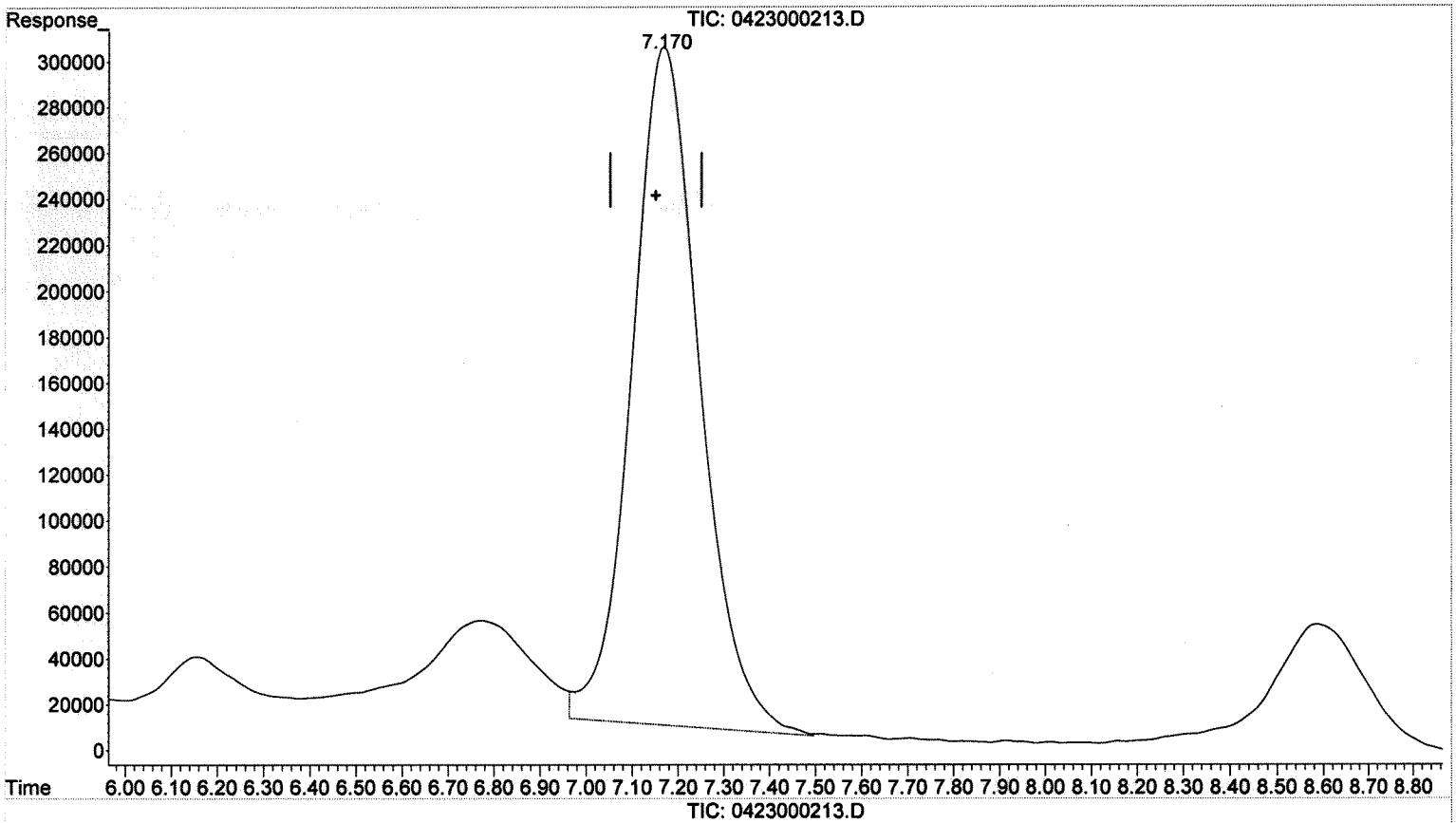
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000213.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 09:18:12  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



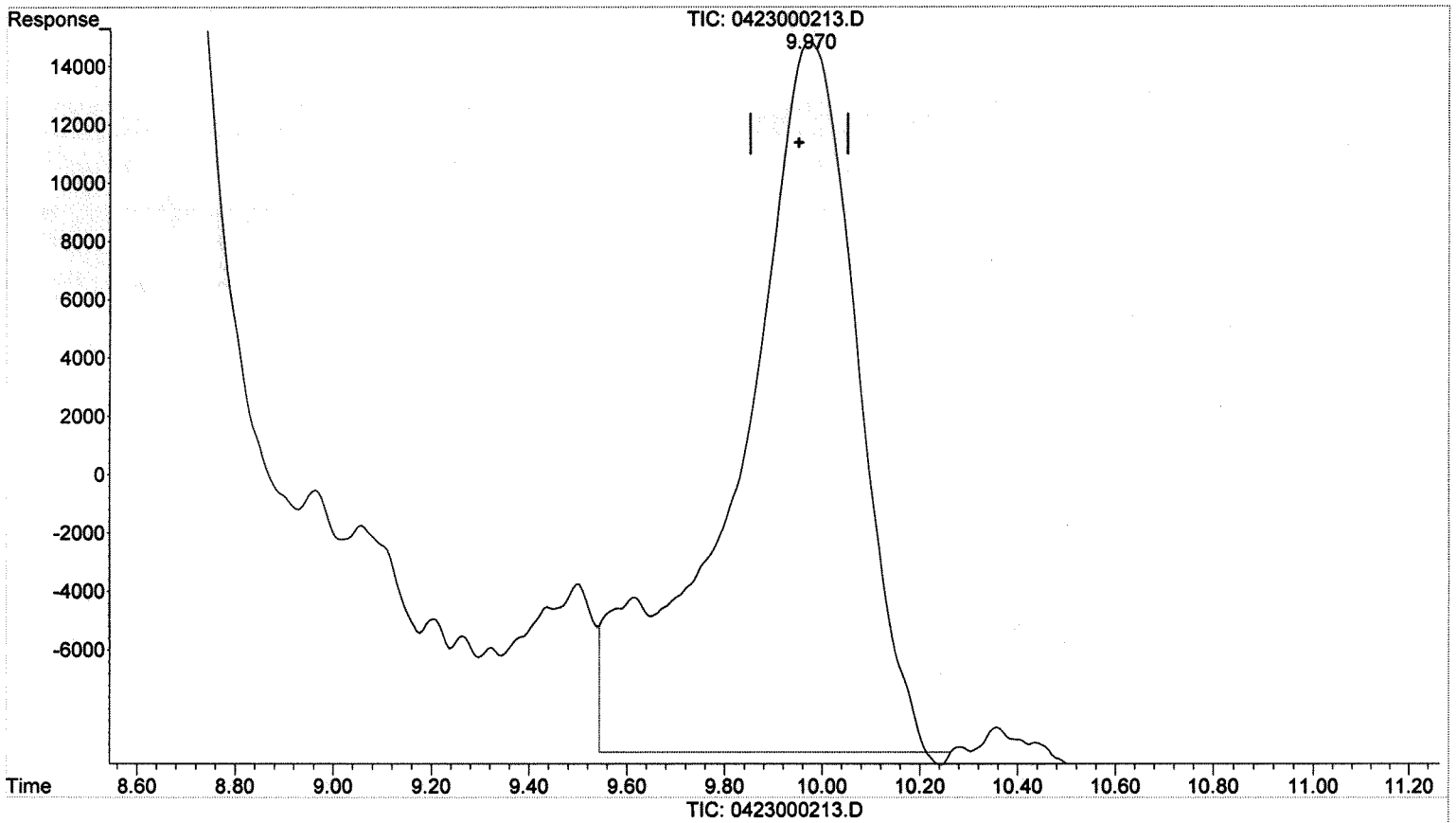
(2) RDX (T)  
7.170min 146.271 ug/L m  
response 3046096

Manual Integration:  
After  
BLC  
05/01/15 *[Signature]*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000213.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 09:18:12  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.970min 9.102 ug/L  
response 412231

Manual Integration:

Before

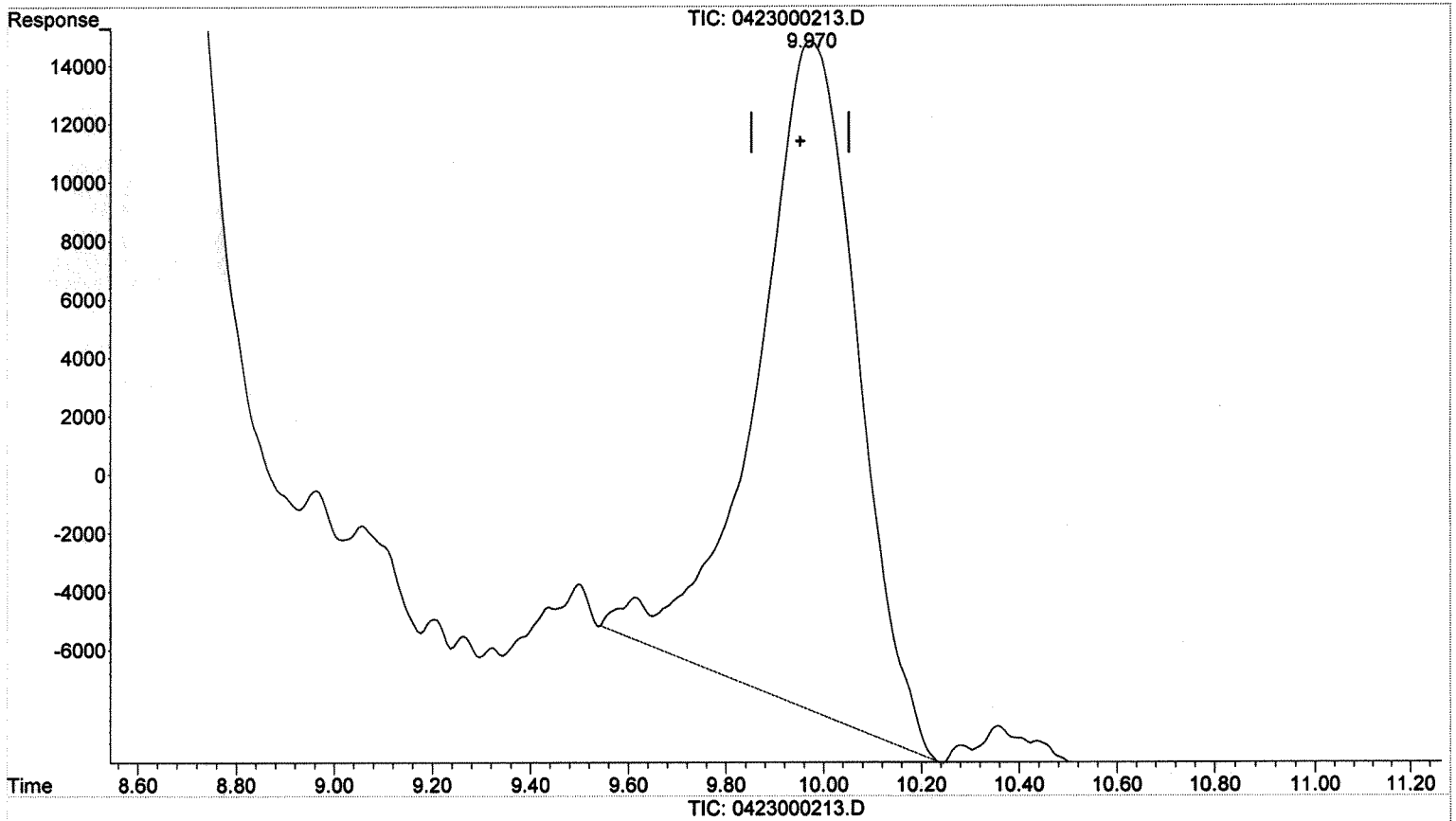
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000213.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 09:18:12  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



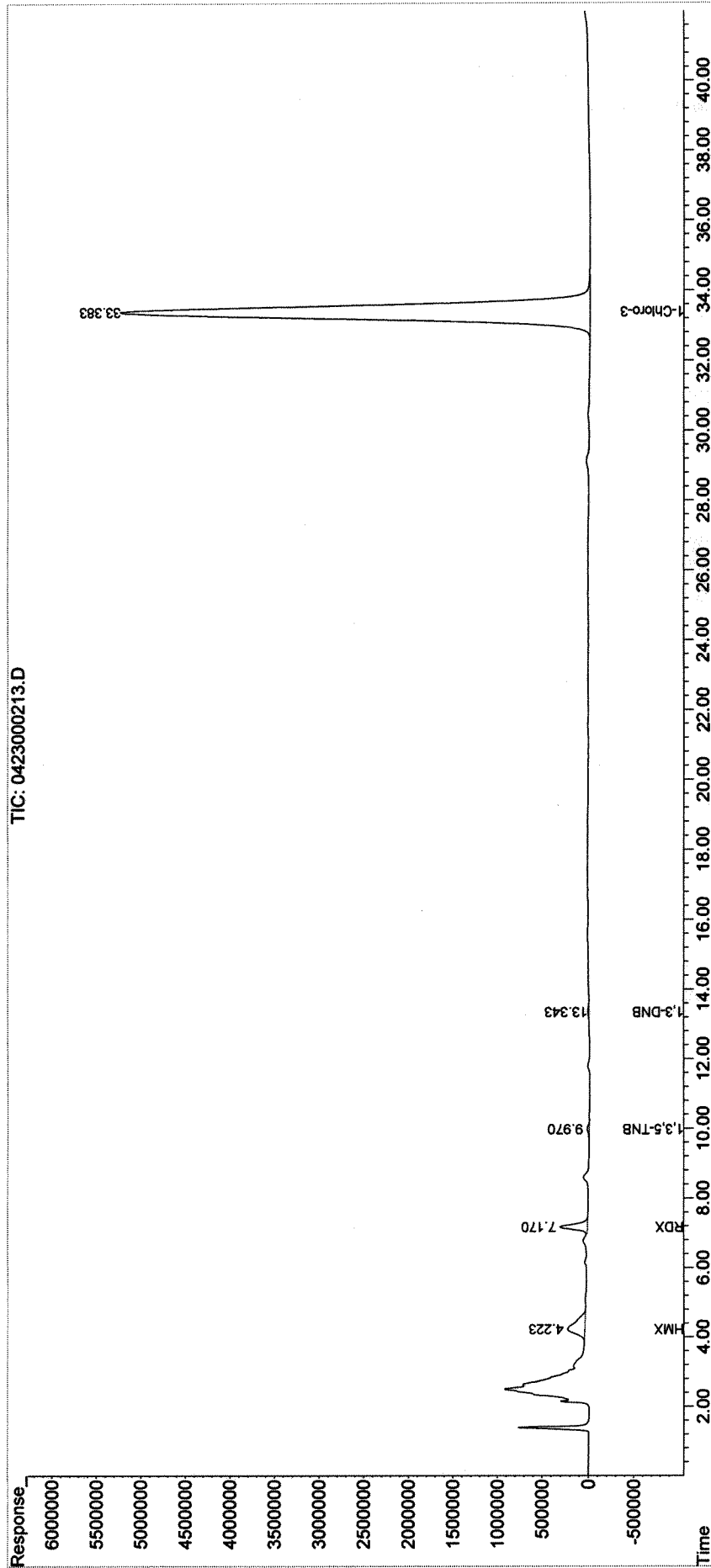
(3) 1,3,5-TNB (T)  
9.970min 7.311 ug/L m  
response 331129

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000213.D  
Signal(s) : DADIA.ch  
Acq On : 24-Apr-2015, 09:18:12  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:57:49 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm





## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000213.D  
**Lab ID:** K1503815-008  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 09:18  
**Date Quantitated:** 05/12/2015 09:03  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: ll 5/12/15

Secondary Review: ll 5/12/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\210\0423000213.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 09:18	<b>Quant Date:</b>	05/12/2015 09:03
<b>Run Type:</b>	SMPL	<b>Vial:</b>	60
<b>Lab ID:</b>	K1503815-008	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	01	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/13/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503922	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427791	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13892
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
<b>MB Ref:</b>	J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b>	MJ1278
		<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?	
1-Chloro-3-nitrobenzene	33.38	-0.06	350335953	4,222	84	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0		0.18	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000213.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 09:18:12  
 Operator : CFS  
 Sample : K1503815-008  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:03:50 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	33.383	350335953	4221.849	ug/L
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L
-----				

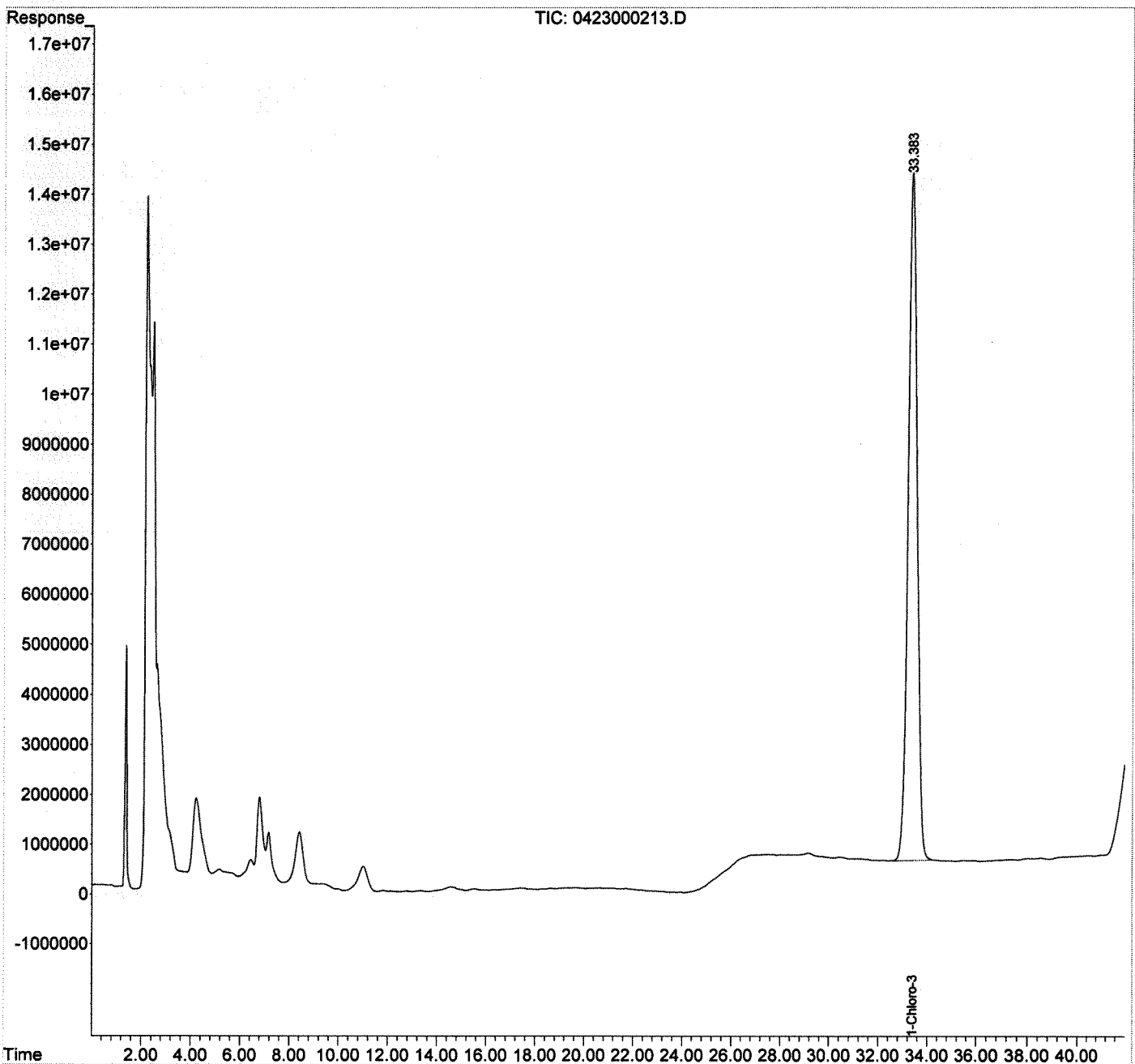
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000213.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 09:18:12  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:03:50 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000113.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 10:34:09  
 Operator : CFS  
 Sample : K1503815-008  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 14:03:32 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

1040 mL → 4 mL

Sx  
 CONC  
 (ug/L)

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
11) S 1-Chloro-3-Nitrobenzene	32.393	129057465	4680.123	ug/L
<b>Target Compounds</b>				
1) T HMX	0.000	0	N.D.	ug/L <i>NL</i>
2) T RDX	7.082	3157940	160.769	ug/L <i>m . 0.62 C</i>
3) T Nitrobenzene	0.000	0	N.D.	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L <i>NL</i>
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	0.000	0	N.D.	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window

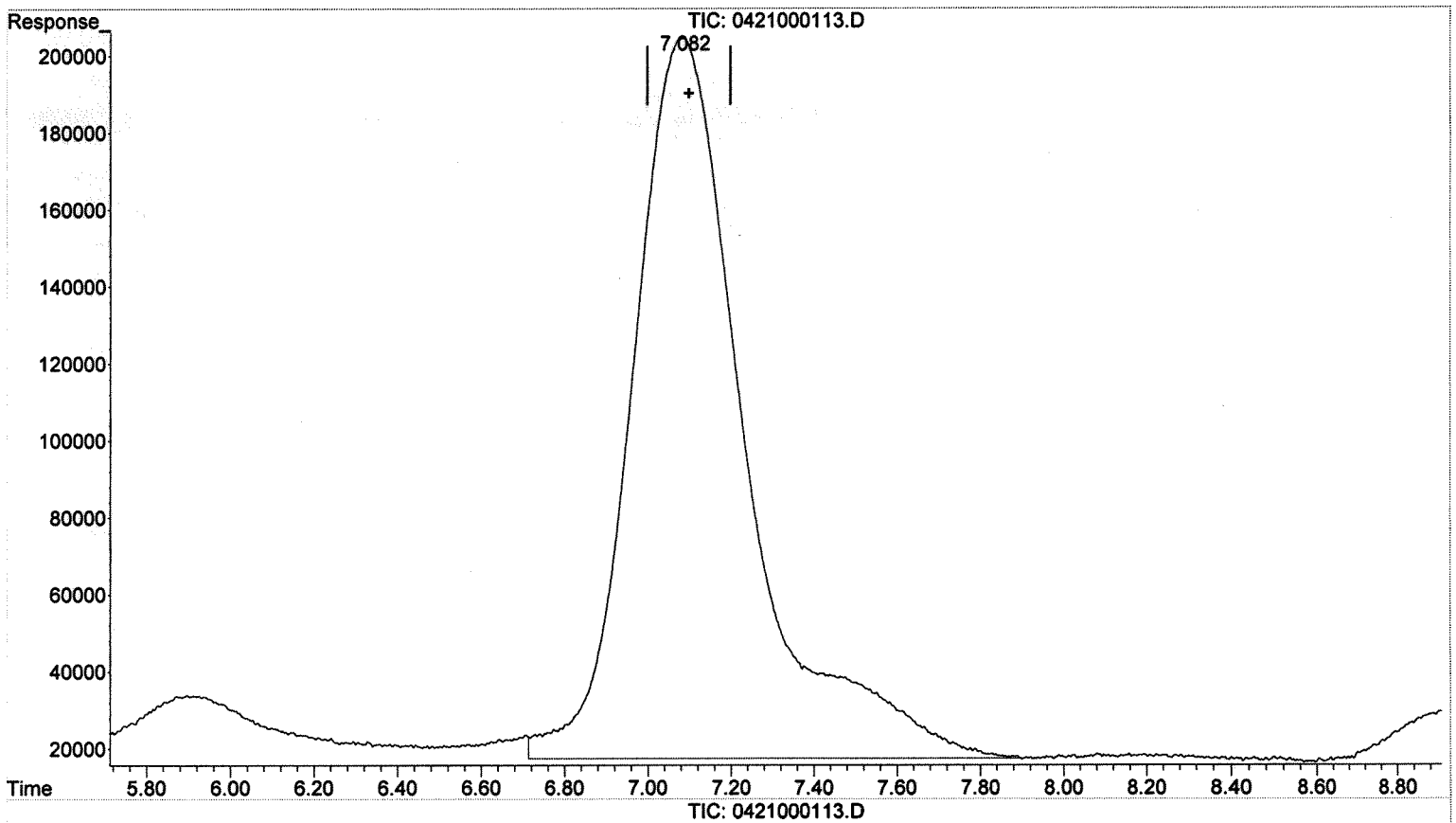
(m)=manual int.

*lc 515115*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000113.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 10:34:09  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:59 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax Sum 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)  
7.082min 179.587 ug/L  
response 3527566

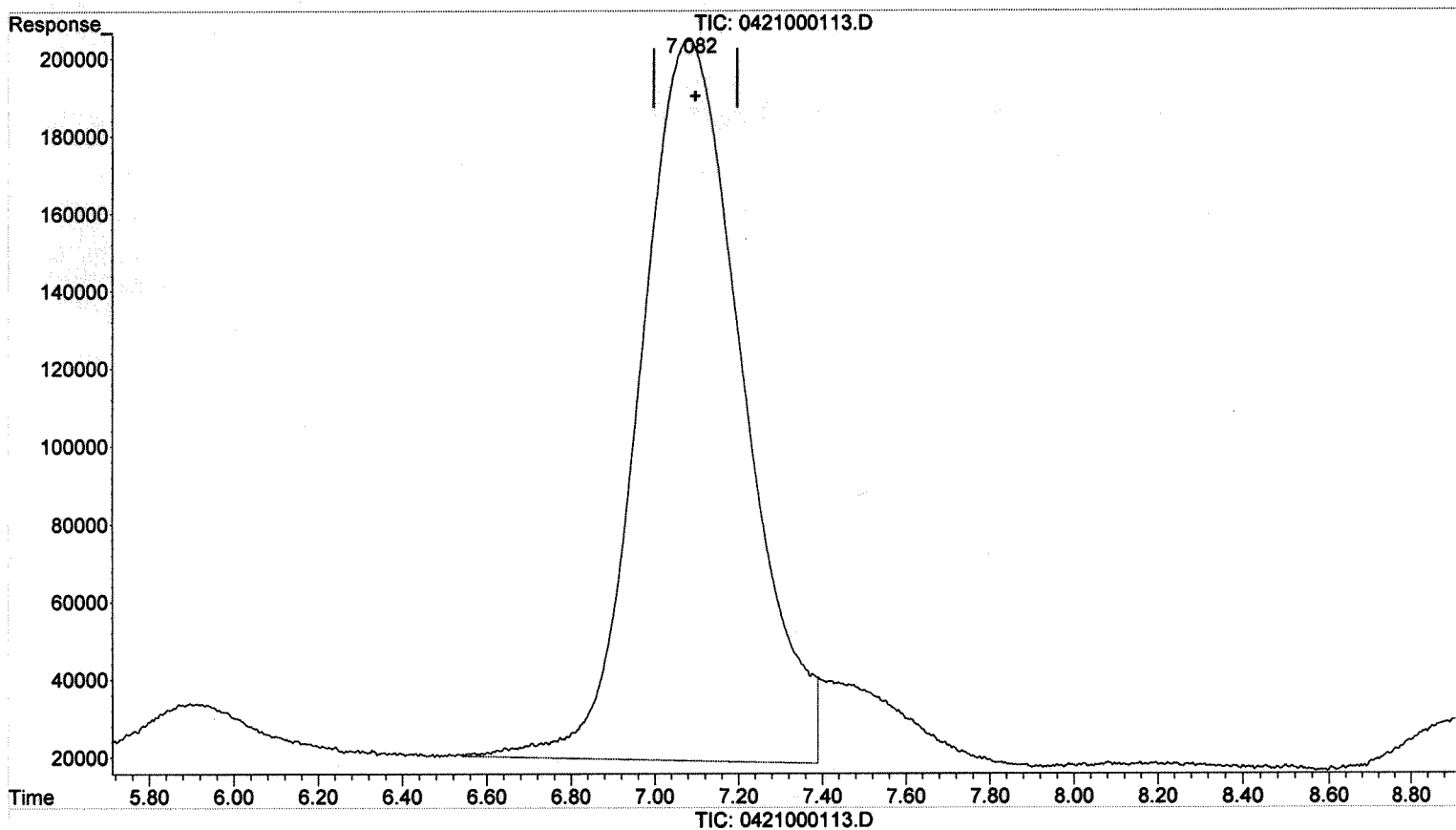
Manual Integration:  
Before

05/05/15

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000113.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 10:34:09  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:59 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



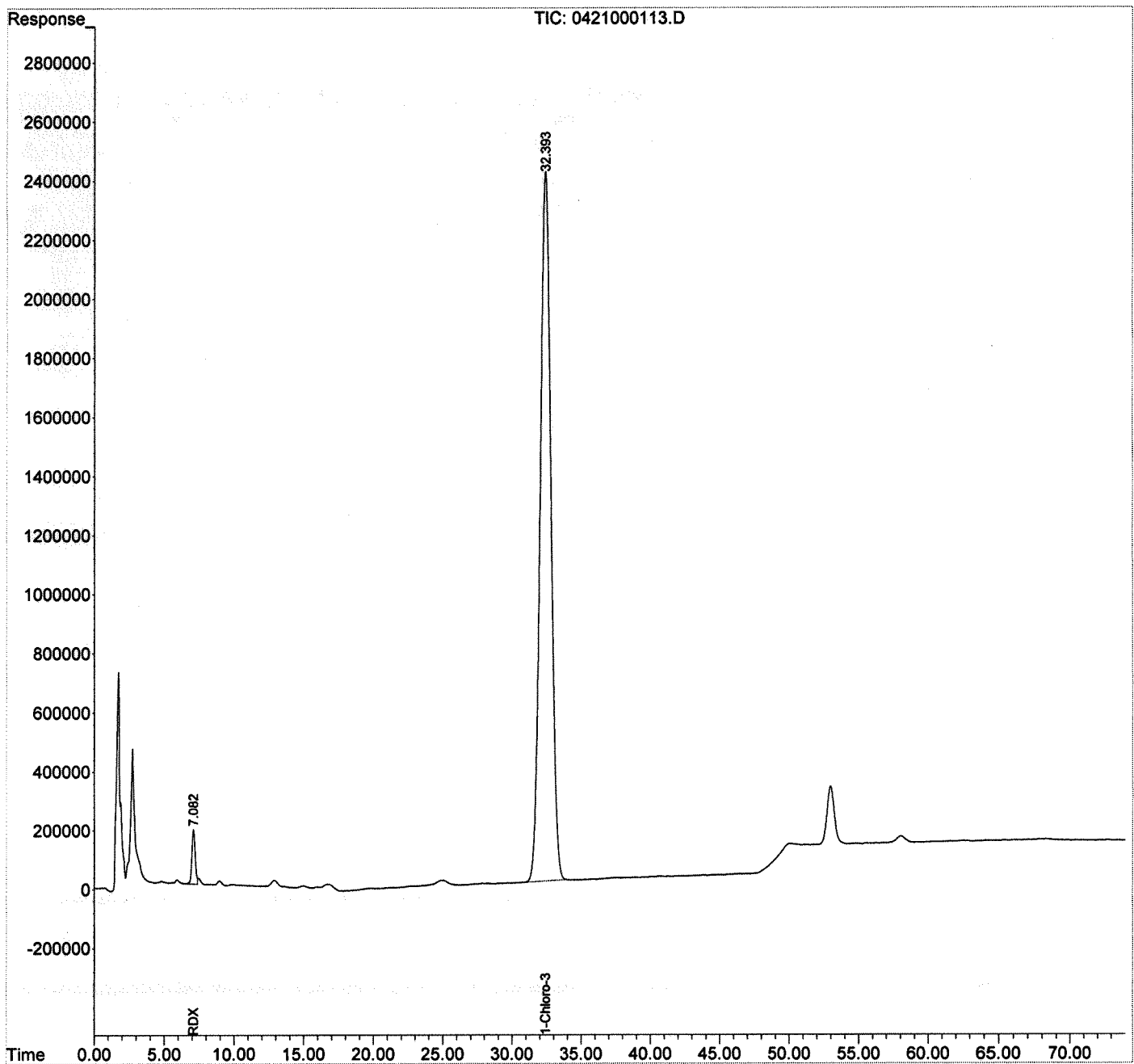
(2) RDX (T)  
7.082min 160.769 ug/L m  
response 3157940

Manual Integration:  
After  
BLC  
05/05/15

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000113.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 10:34:09  
Operator : CFS  
Sample : K1503815-008  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 14:03:32 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm





## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000216.D  
**Lab ID:** K1503815-009  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 12:50  
**Date Quantitated:** 05/01/2015 14:09  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	TETRYL	-31.6	NA	20	re-run
Method Blank	HMX	0.58	NA	0.10	confirm
Retention Time	HMX	-0.22	NA	0.10	<u>        </u> ↓

Primary Review: la 5/5/15

Secondary Review: JA 5.12.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000216.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 12:50	<b>Quant Date:</b> 05/01/2015 14:09
<b>Run Type:</b> SMPL	<b>Vial:</b> 61
<b>Lab ID:</b> K1503815-009	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427792	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.36	0.04	145423570	4,733	95	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.11	-0.22*	6298982m	408.53	1.6	B	NV
RDX	7.15	0.01	2100465m	99.03	0.38	J	
1,3,5-Trinitrobenzene	9.94	0.01	296262m	6.54	0.050	U	
1,3-Dinitrobenzene			0		0.0085	U	
3,5-Dinitroaniline			0		0.013	U	
TETRYL			0		0.042	U	NR
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0		0.024	U	
4-Amino-2,6-dinitrotoluene			0		0.016	U	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	
2,6-Dinitrotoluene			0d		0.054	U	
2,4-Dinitrotoluene			0		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0d		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor**

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000216.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 12:50:33  
 Operator : CFS  
 Sample : K1503815-009  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:09:29 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.360	145423570	4732.688	ug/L
Target Compounds				
1) T HMX	4.107f	6298982	408.531	ug/L m
2) T RDX	7.154	2100465	99.033	ug/L m
3) T 1,3,5-TNB	9.940	296262	6.541	ug/L m
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L d
15) T 3-NT	0.000	0	N.D.	ug/L

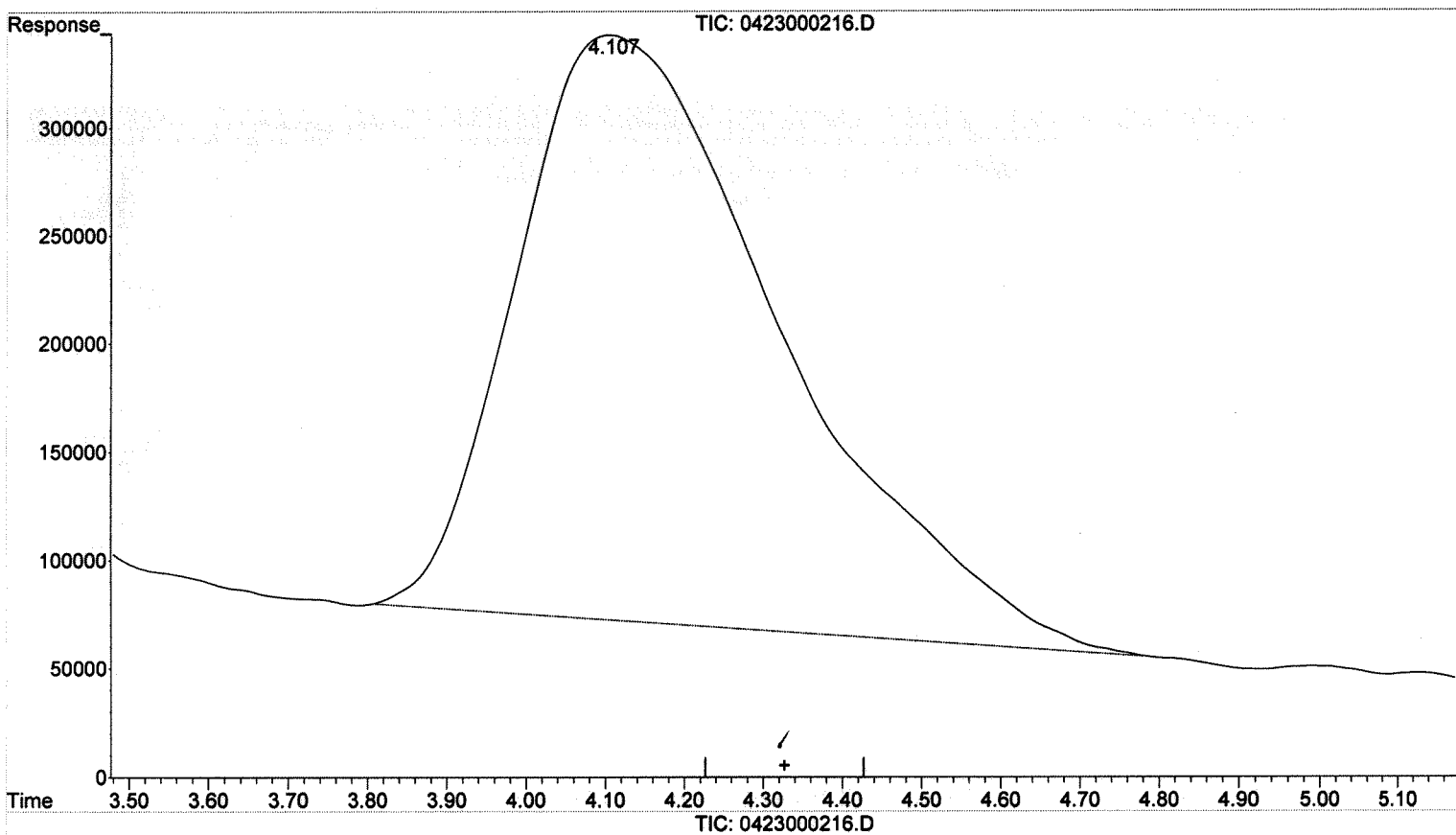
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000216.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 12:50:33  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:51 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.107min 408.531 ug/L m  
response 6298982

Manual Integration:

After

MP

05/01/15

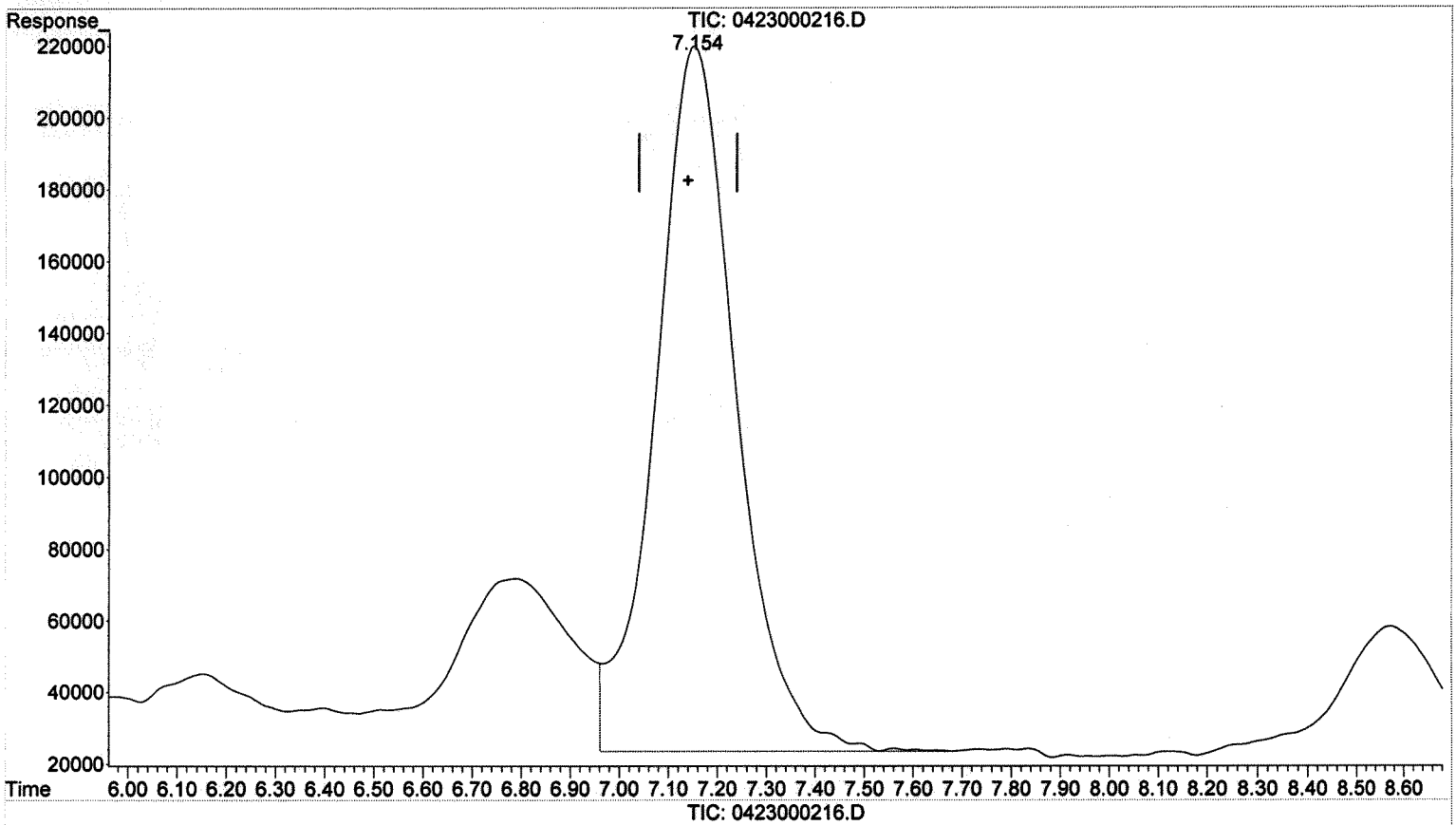
*flay*  
*[Signature]*

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000216.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 12:50:33  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:51 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.154min 105.826 ug/L  
response 2236447

Manual Integration:

Before

05/01/15

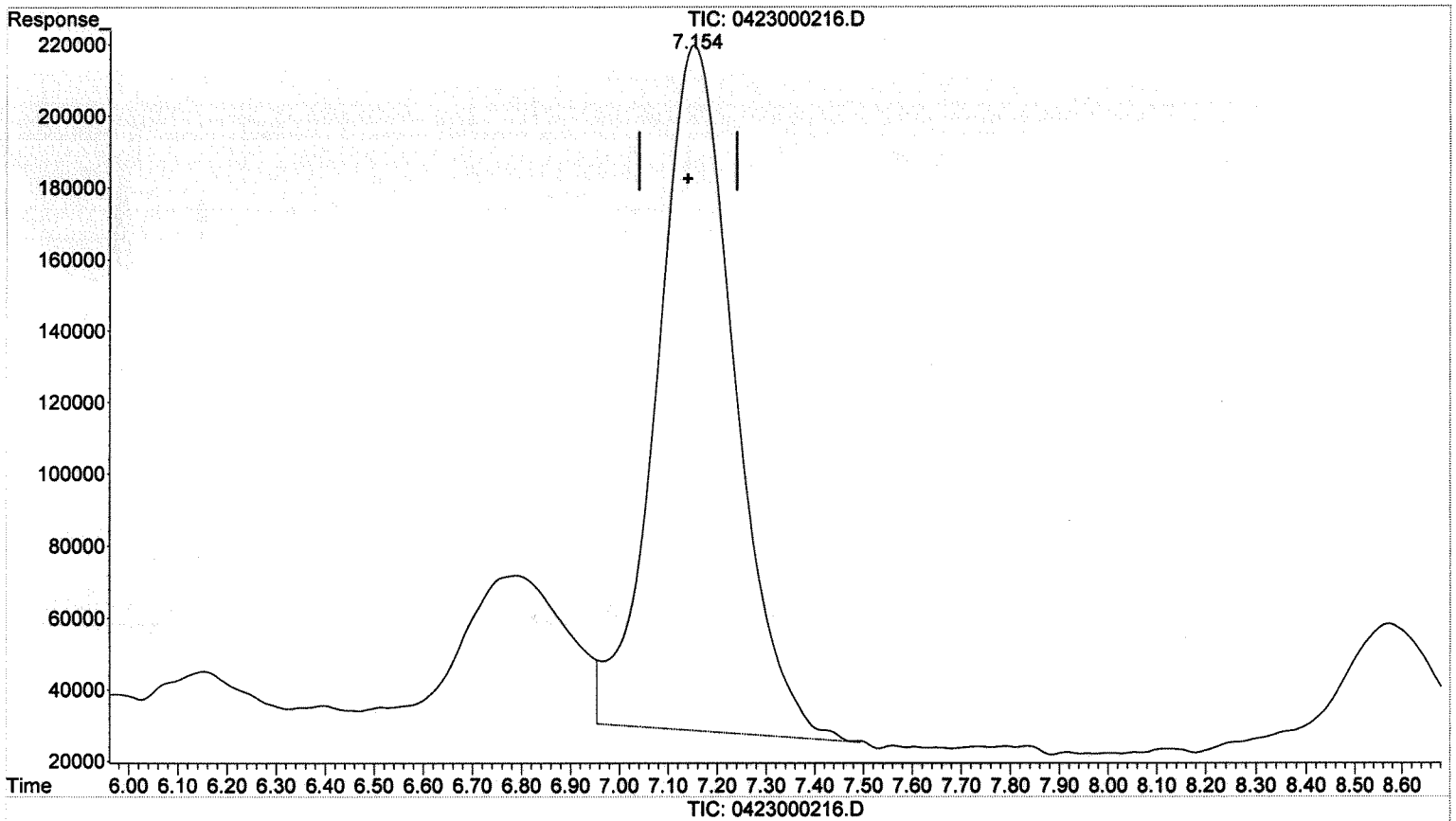
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000216.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 12:50:33  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:51 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



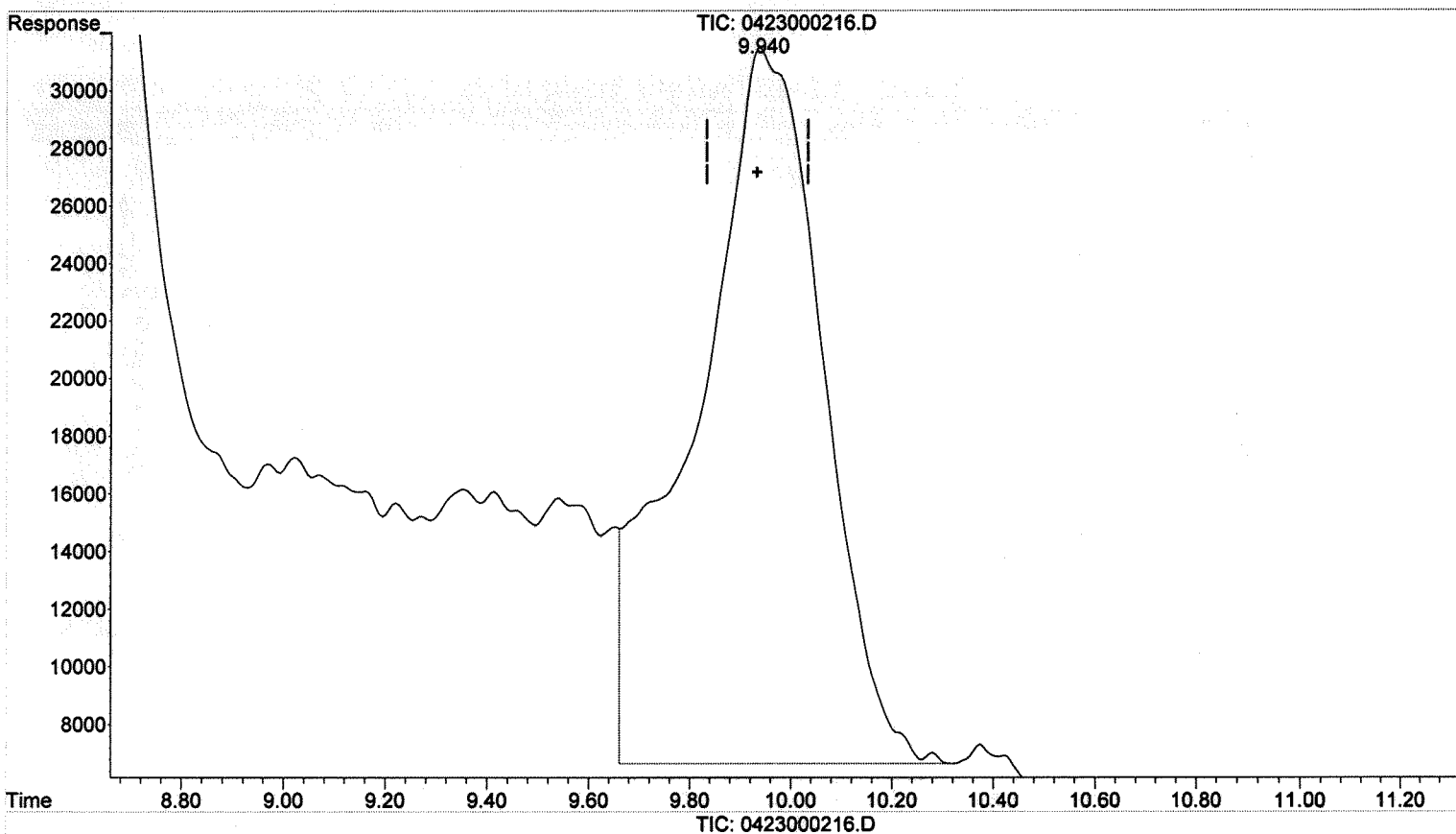
(2) RDX (T)  
7.154min 99.033 ug/L m  
response 2100465

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000216.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 12:50:33  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:51 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.940min 9.592 ug/L  
response 434414

Manual Integration:  
Before

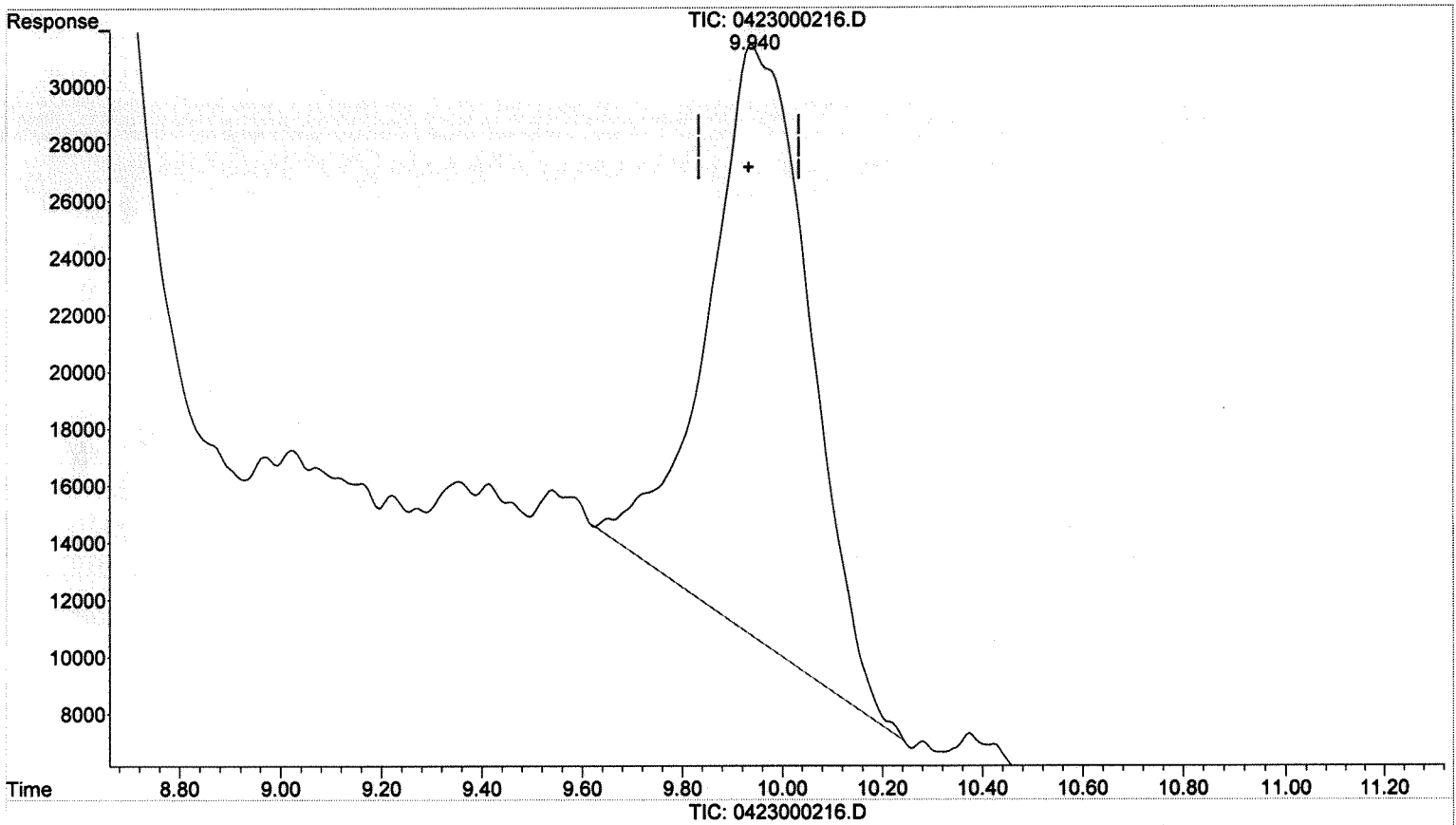
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000216.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 12:50:33  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:51 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.940min 6.541 ug/L m  
response 296262

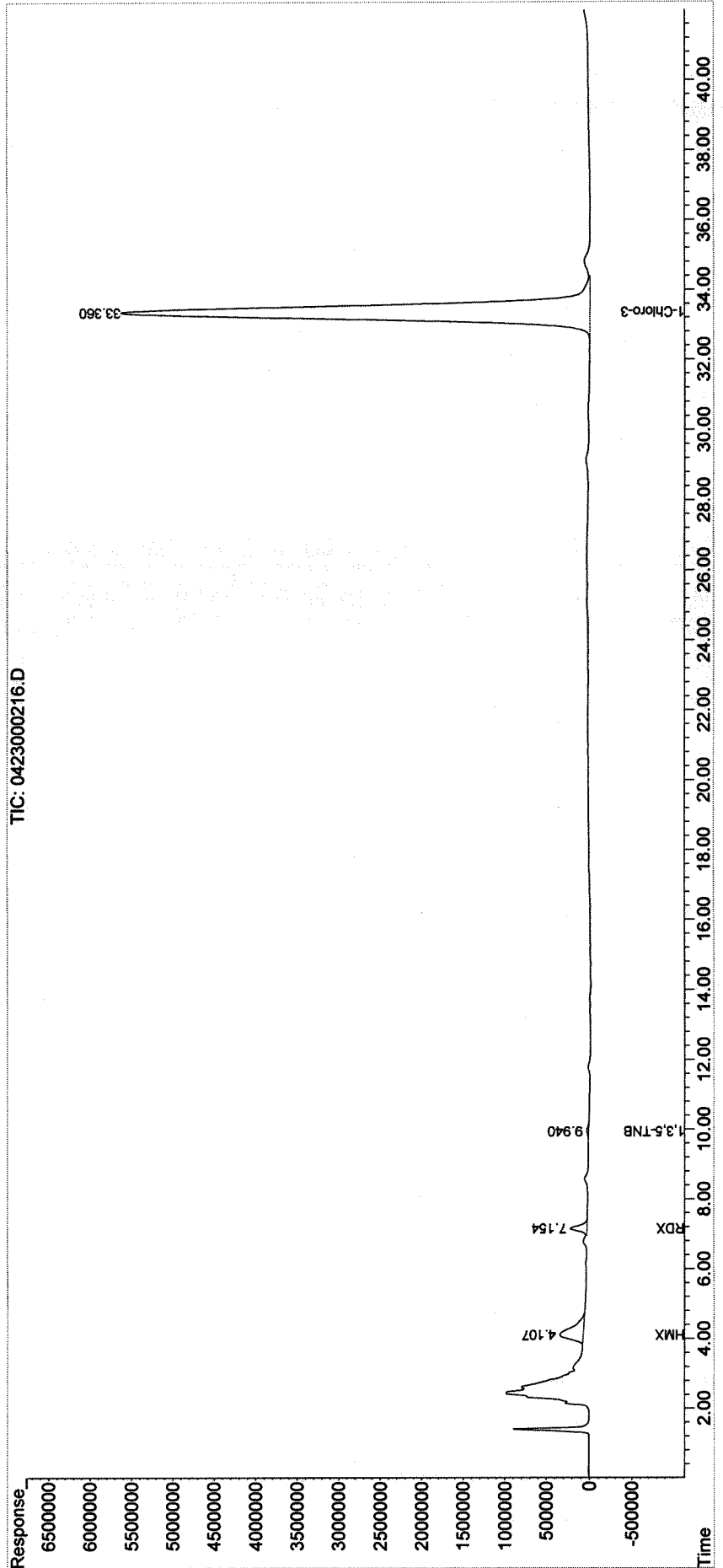
Manual Integration:  
After  
BLC  
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000216.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 12:50:33  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 14:09:29 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



5/12/15jal2ndRev

## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000216.D  
**Lab ID:** K1503815-009  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 12:50  
**Date Quantitated:** 05/12/2015 09:09  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review:     *lu* 5/12/15      
 Secondary Review:     *AA* 5/12/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\210\0423000216.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 12:50	<b>Quant Date:</b>	05/12/2015 09:09
<b>Run Type:</b>	SMPL	<b>Vial:</b>	61
<b>Lab ID:</b>	K1503815-009	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	02	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/13/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503922	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427792	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13892
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
<b>MB Ref:</b>	J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b>	MJ1278
		<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.36	0.04	378718773	4,564	91	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0d		0.39	U	
Pentaerythritol Tetranitrate			0d		0.18	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000216.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 12:50:33  
 Operator : CFS  
 Sample : K1503815-009  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:09:19 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.360	378718773	4563.886 ug/L
Target Compounds			
1) T Nitroglycerin	0.000	0	N.D. ug/L d
2) T PETN	0.000	0	N.D. ug/L d
-----			

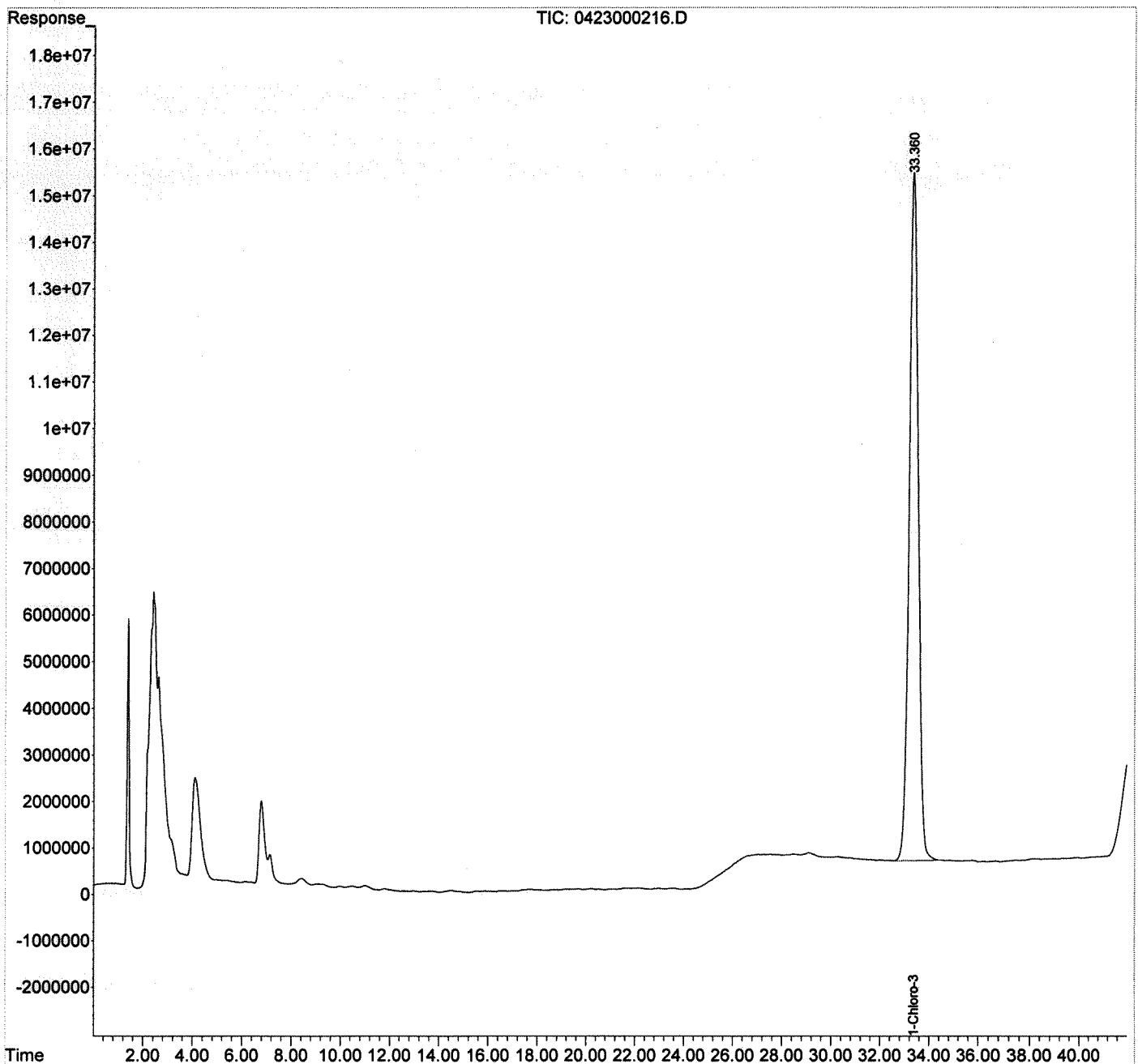
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000216.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 12:50:33  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:09:19 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



## Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000106.D  
**Lab ID:** K1503815-009  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 05/04/2015 13:19  
**Date Quantitated:** 05/12/2015 12:32  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: lu 5/13/15

Secondary Review: QA 5/15/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000106.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 05/04/2015 13:19	<b>Quant Date:</b> 05/12/2015 12:32
<b>Run Type:</b> SMPL	<b>Vial:</b> 61
<b>Lab ID:</b> K1503815-009	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427792	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
	<b>Method ID:</b> MJ1278
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.68	0.04	66662006m	2,169	43	23-98	OK NR

## Target Compounds

			Final Conc. Units:				
			ug/L				
Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.010	U	NR
RDX	7.27	0.07	1926416m	90.34	0.35		NR
1,3,5-Trinitrobenzene			0		0.050	U	NR
1,3-Dinitrobenzene			0		0.0085	U	NR
3,5-Dinitroaniline			0		0.013	U	NR
TETRYL			0		0.042	U	
Nitrobenzene			0		0.013	U	NR
2,4,6-Trinitrotoluene			0		0.024	U	NR
4-Amino-2,6-dinitrotoluene			0		0.016	U	NR
2-Amino-4,6-dinitrotoluene			0		0.0089	U	NR
2,6-Dinitrotoluene			0d		0.054	U	NR
2,4-Dinitrotoluene			0d		0.0091	U	NR
2-Nitrotoluene			0d		0.032	U	NR
4-Nitrotoluene			0d		0.0060	U	NR
3-Nitrotoluene			0		0.0064	U	NR

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

J: Undetected at or above MDL  
 : Analyte detected above MDL, but below MRL  
 #: Hit above MRL also found in Method Blank  
 #: Analyte concentration above high point of ICAL  
 #: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 #: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ? : Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000106.D  
 Signal(s) : DAD1A.ch  
 Acq On : 04-May-2015, 13:19:13  
 Operator : CFS  
 Sample : K1503815-009  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:32:00 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:20:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.679	66662006	2169.459	ug/L m
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	7.266f	1926416	90.338	ug/L m
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L d
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

(f)=RT Delta > 1/2 Window

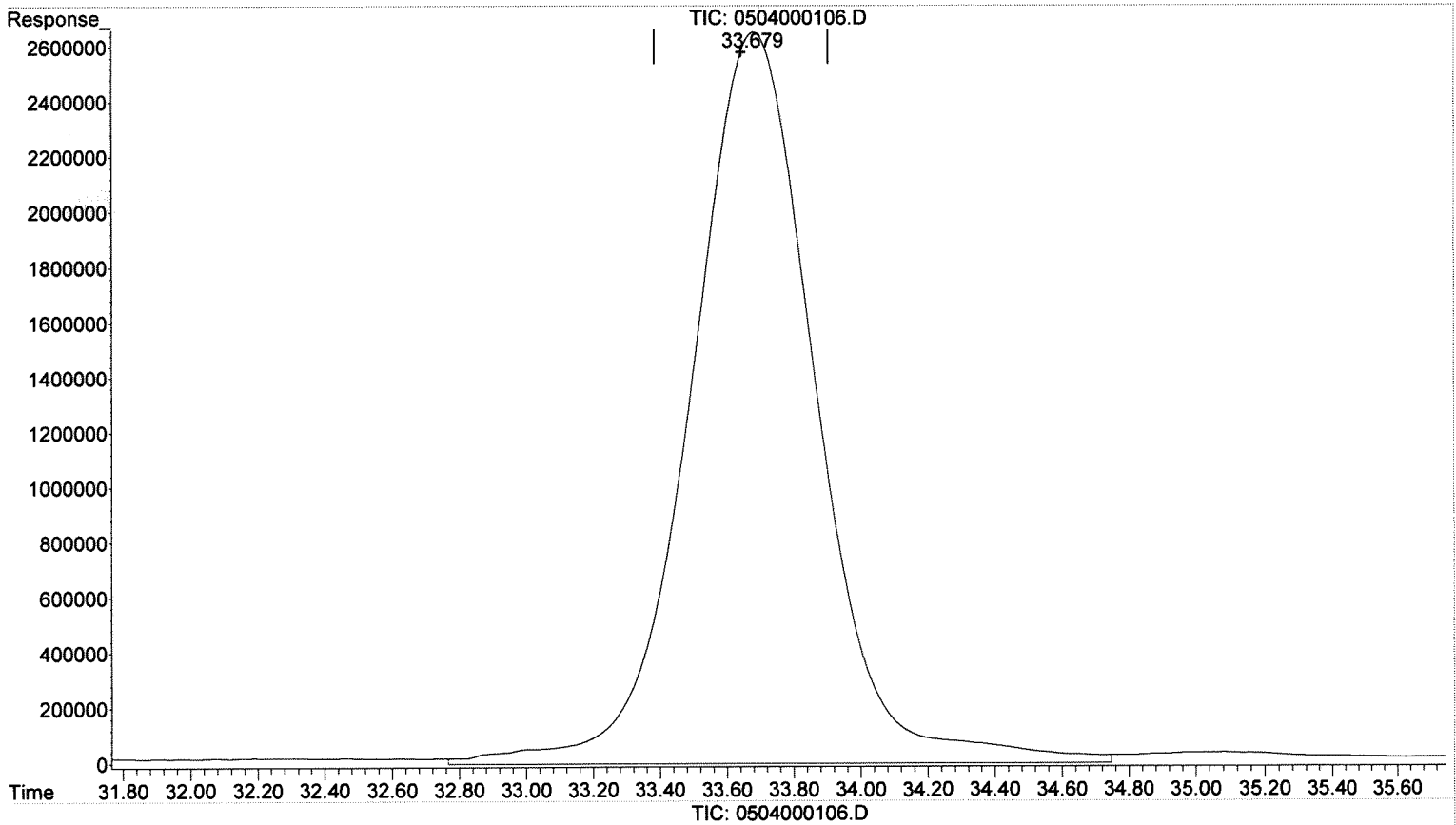
(m)=manual int.



Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000106.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 13:19:13  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:55 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.679min 2250.316 ug/L  
response 69146537

Manual Integration:  
Before

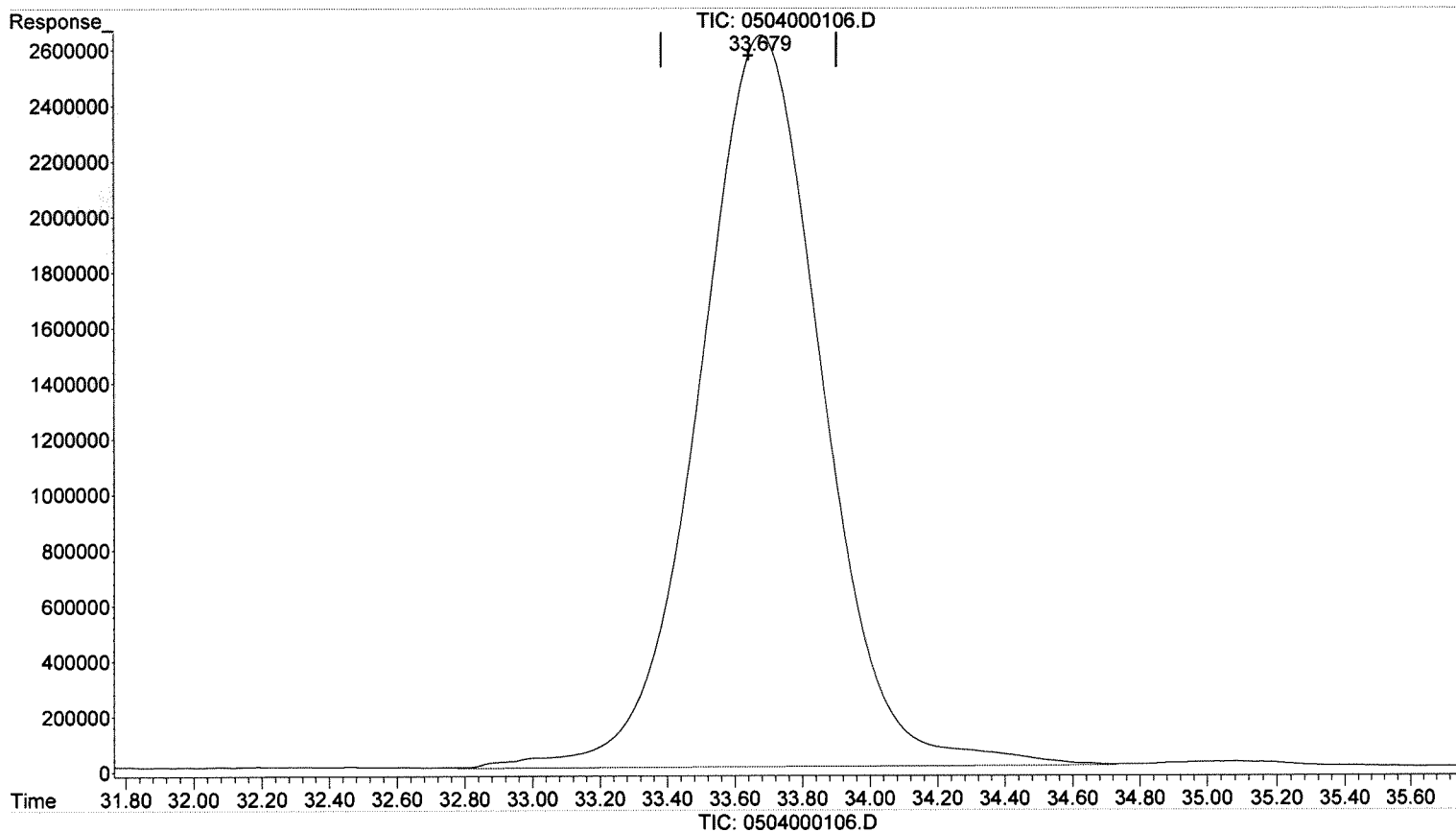
05/12/15

*Handwritten:* 5.15.15  
Page: 1

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000106.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 13:19:13  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:55 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.679min 2169.459 ug/L m  
response 66662006

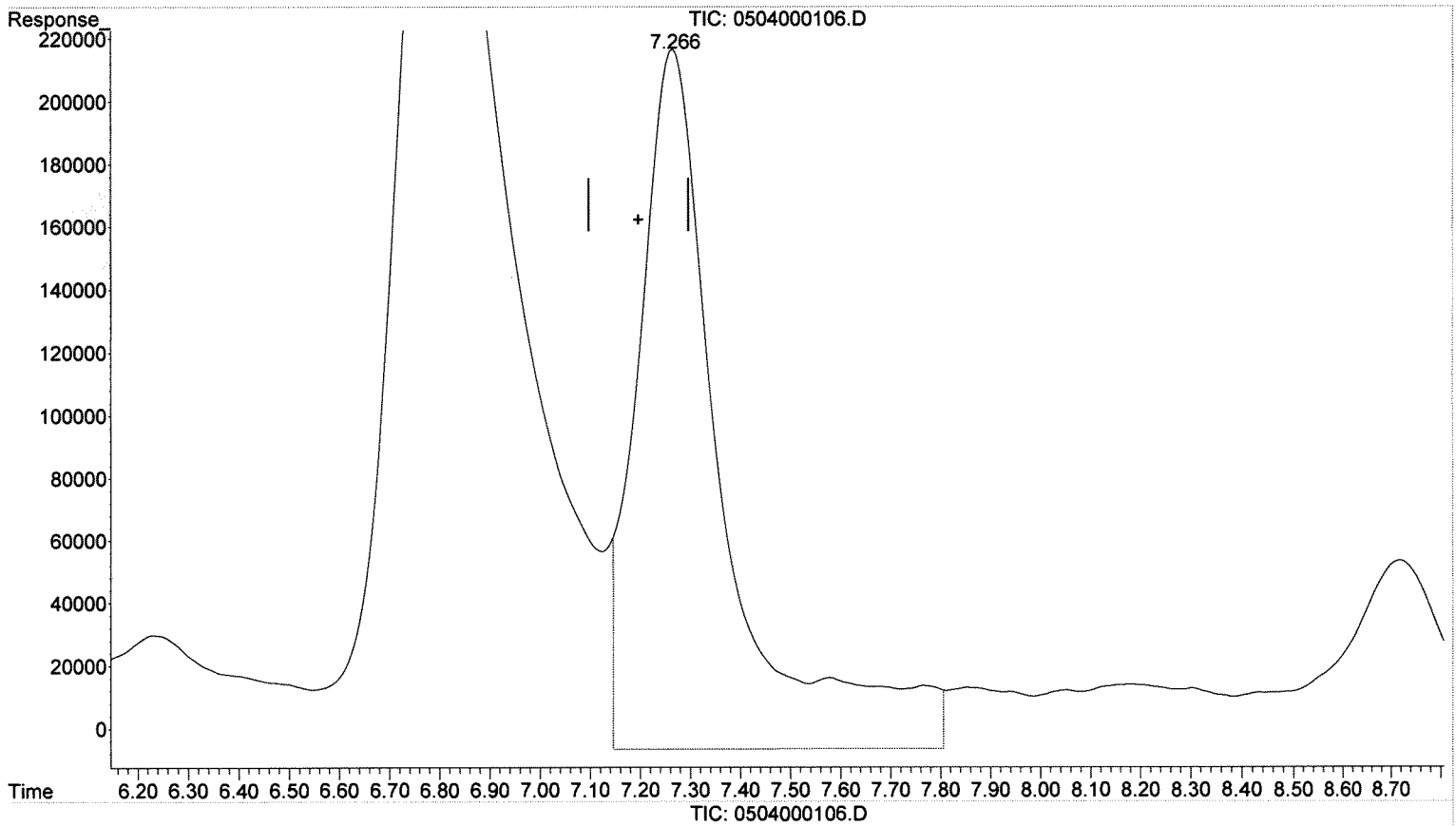
Manual Integration:  
After  
BLC  
05/12/15

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000106.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 13:19:13  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:55 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.266min 126.404 ug/L  
response 2648381

Manual Integration:  
Before

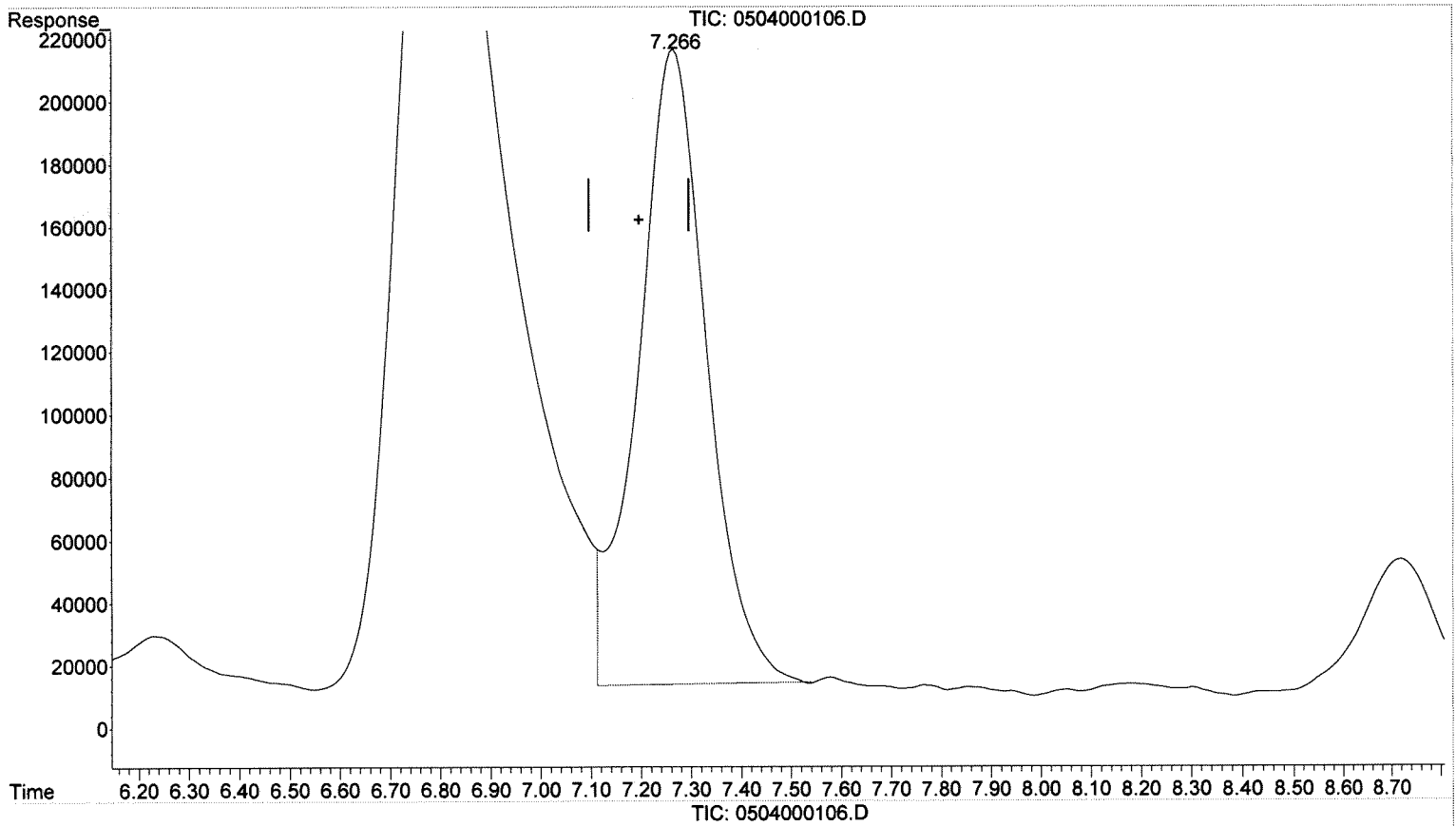
05/12/15

05/15/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000106.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 13:19:13  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:55 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.266min 90.338 ug/L m  
response 1926416

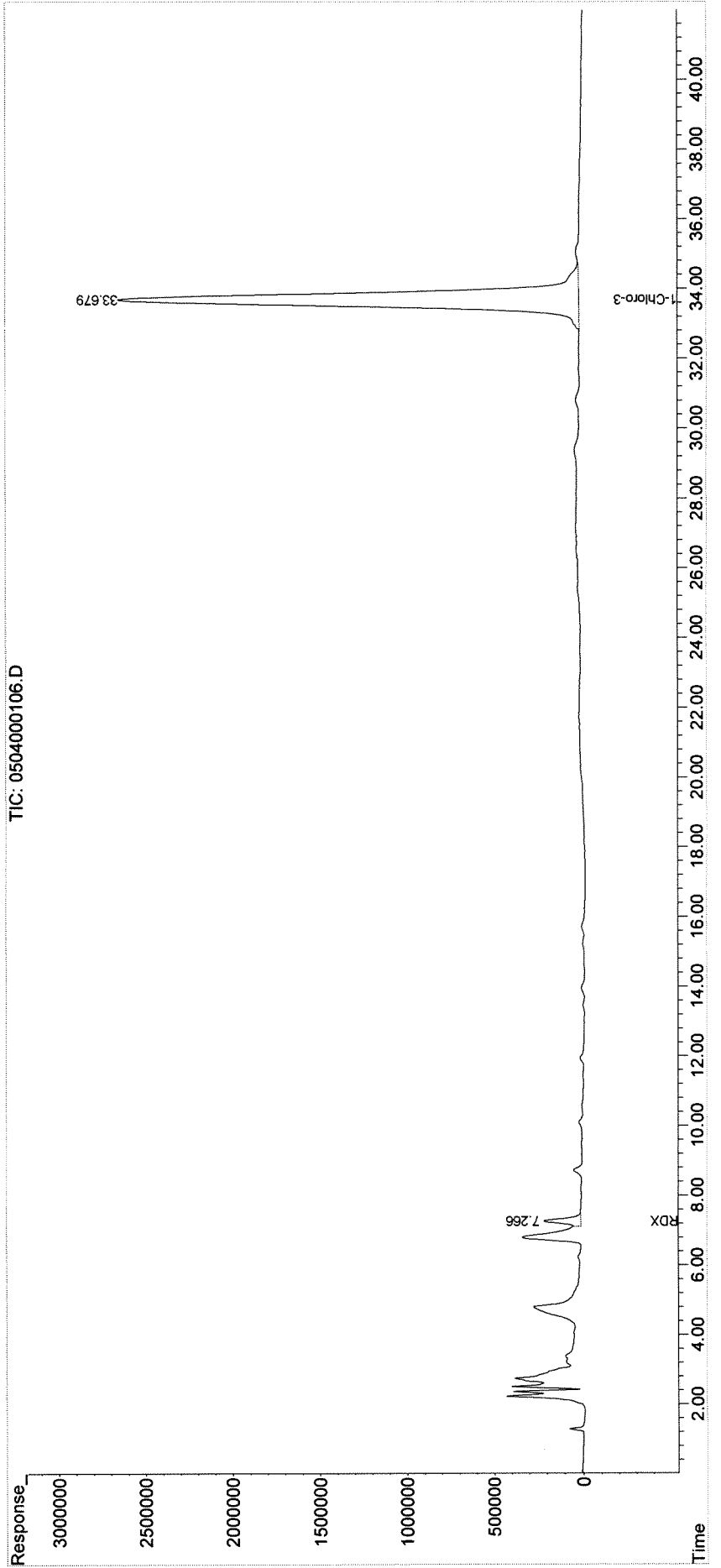
Manual Integration:  
After  
BLC  
05/12/15

515.15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000106.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 13:19:13  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:32:00 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000117.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 16:59:17  
 Operator : CFS  
 Sample : K1503815-009  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 14:11:04 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:57:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

1040mL → 4mL

Sx  
 LUNC  
 (ug/L)

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
11) S 1-Chloro-3-Nitrobenzene	32.455	139114612	5044.834	ug/L
<b>Target Compounds</b>				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	7.100	3008478	153.160	ug/L
3) T Nitrobenzene	12.918	3206508	85.643	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	52.987	7781088	137.365	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

NV  
 m. 0.159 J

(f)=RT Delta > 1/2 Window

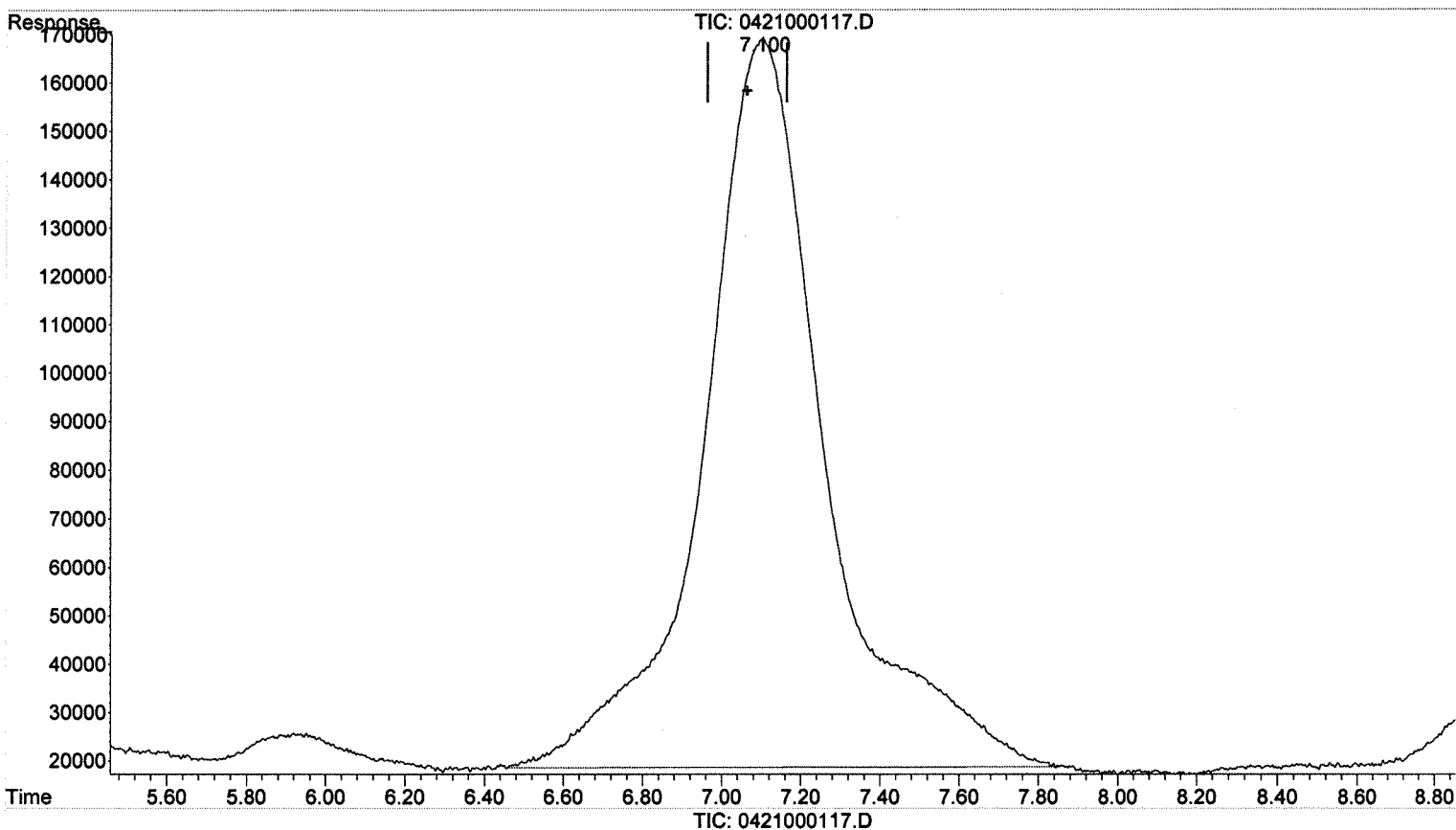
(m)=manual int.

See 5/5/15

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000117.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 16:59:17  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:07 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)  
7.100min 163.856 ug/L  
response 3218576

Manual Integration:  
Before

05/05/15

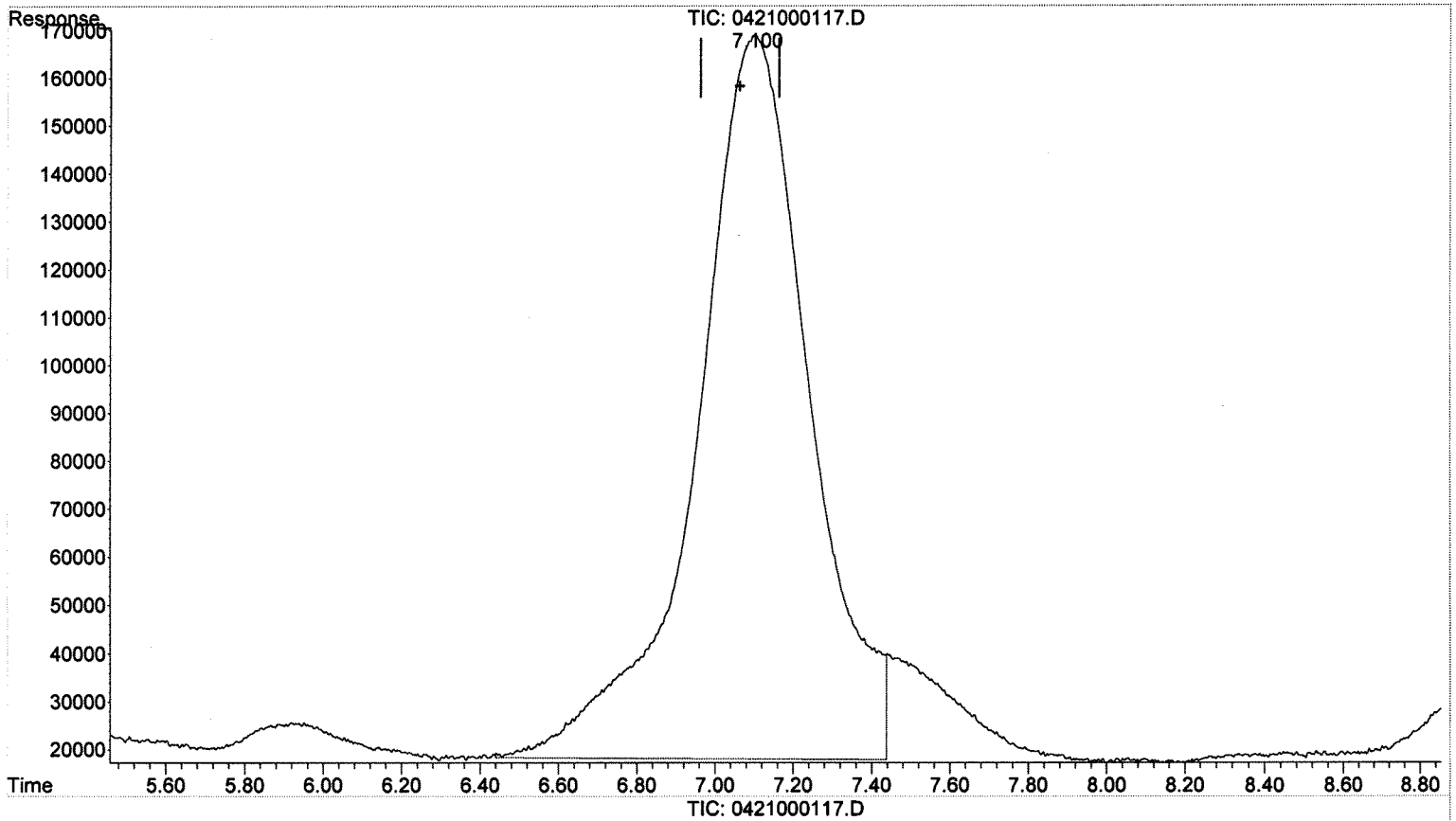
(+) = Expected Retention Time



Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000117.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 16:59:17  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:07 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)  
7.100min 153.160 ug/L m  
response 3008478

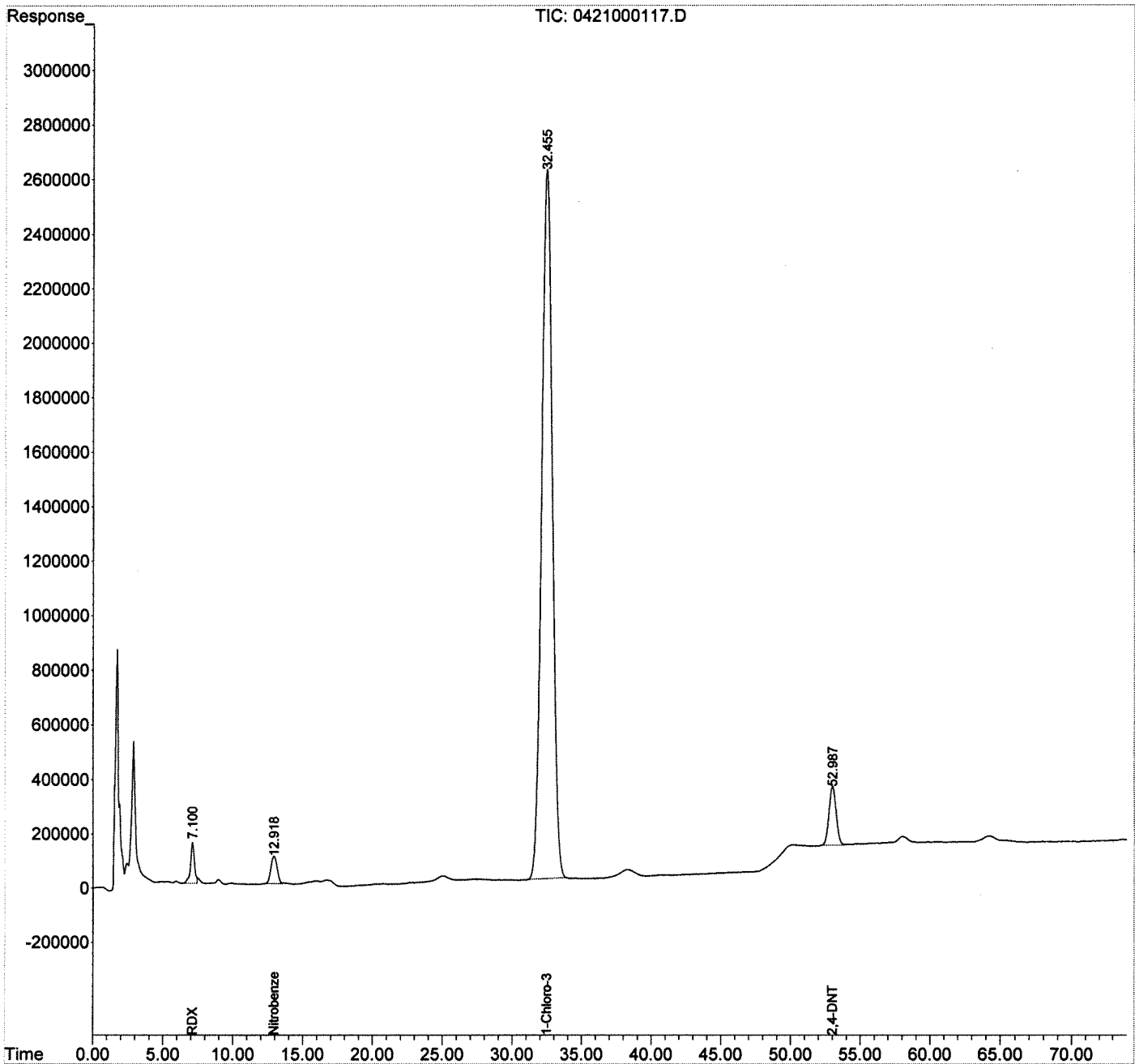
Manual Integration:  
After  
BLC  
05/05/15



Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000117.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 16:59:17  
Operator : CFS  
Sample : K1503815-009  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 14:11:04 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000217.D  
**Lab ID:** K1503815-010  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 14:01  
**Date Quantitated:** 05/01/2015 14:10  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA		x
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	TETRYL	-31.6	NA	20	<i>review</i>
Method Blank	HMX	0.58	NA	0.10	<i>retest</i>
Retention Time	HMX	-0.25	NA	0.10	<i>↓</i>

Primary Review: *lu 5/5/15*

Secondary Review: *QA 5.12.15*

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000217.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 14:01	<b>Quant Date:</b> 05/01/2015 14:10
<b>Run Type:</b> SMPL	<b>Vial:</b> 62
<b>Lab ID:</b> K1503815-010	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427793	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
	<b>Method ID:</b> MJ1278
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.10	-0.22	151192623	4,920	98	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.08	-0.25*	4188112m	271.63	1.0	B	NC
RDX			0		0.017	U	
1,3,5-Trinitrobenzene			0d		0.050	U	
1,3-Dinitrobenzene			0		0.0085	U	
3,5-Dinitroaniline			0		0.013	U	
TETRYL			0d		0.042	U	NR
Nitrobenzene			0d		0.013	U	
2,4,6-Trinitrotoluene			0		0.024	U	
4-Amino-2,6-dinitrotoluene			0d		0.016	U	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	
2,6-Dinitrotoluene			0d		0.054	U	
2,4-Dinitrotoluene			0d		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0		0.0060	U	
3-Nitrotoluene			0		0.0064	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000217.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 14:01:21  
 Operator : CFS  
 Sample : K1503815-010  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:10:59 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.101f	151192623	4920.437	ug/L
Target Compounds				
1) T HMX	4.081f	4188112	271.627	ug/L m
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L d
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L d
7) T Nitrobenzene	0.000	0	N.D.	ug/L d
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L d
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

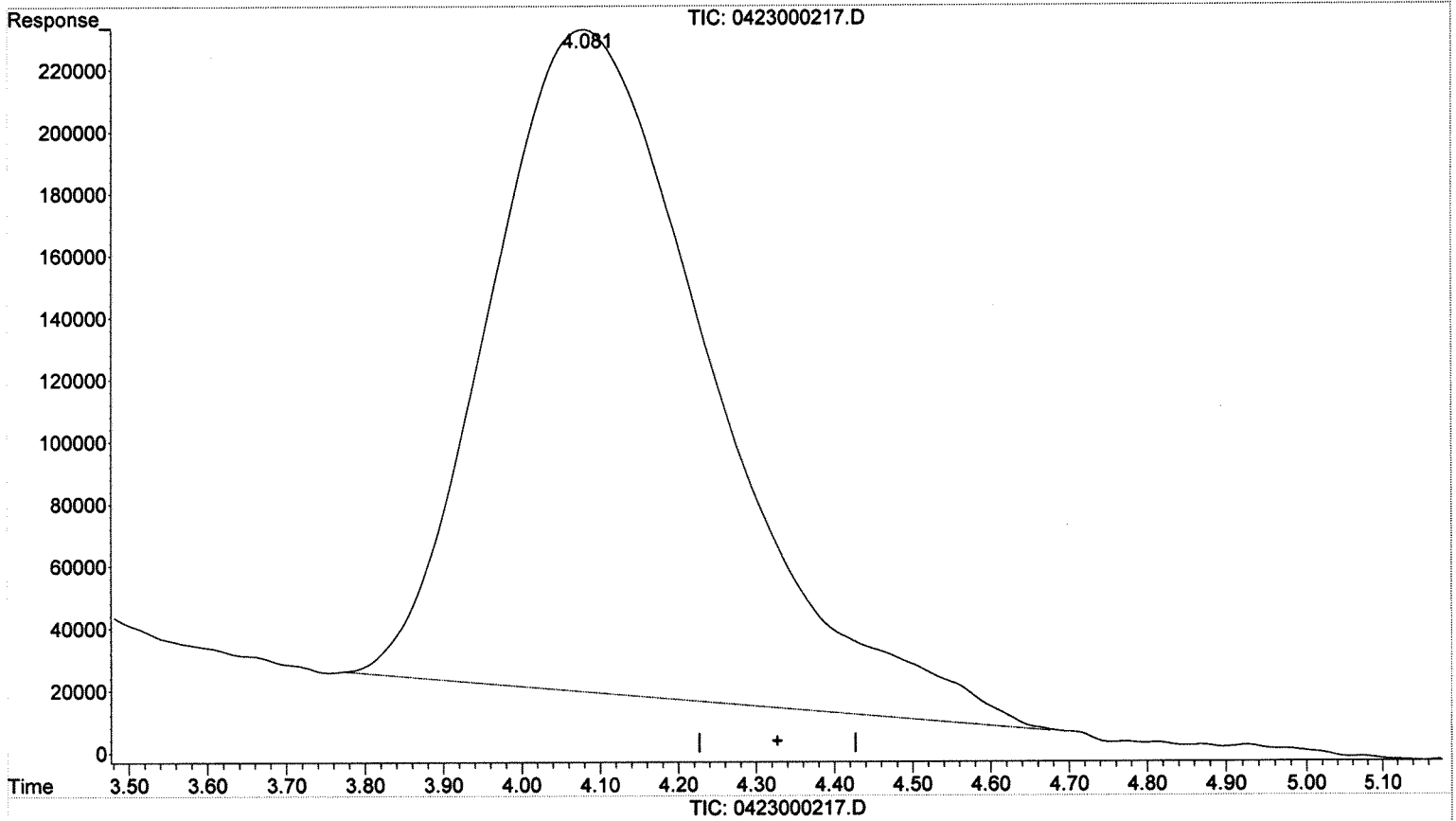
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000217.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 14:01:21  
Operator : CFS  
Sample : K1503815-010  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:54 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



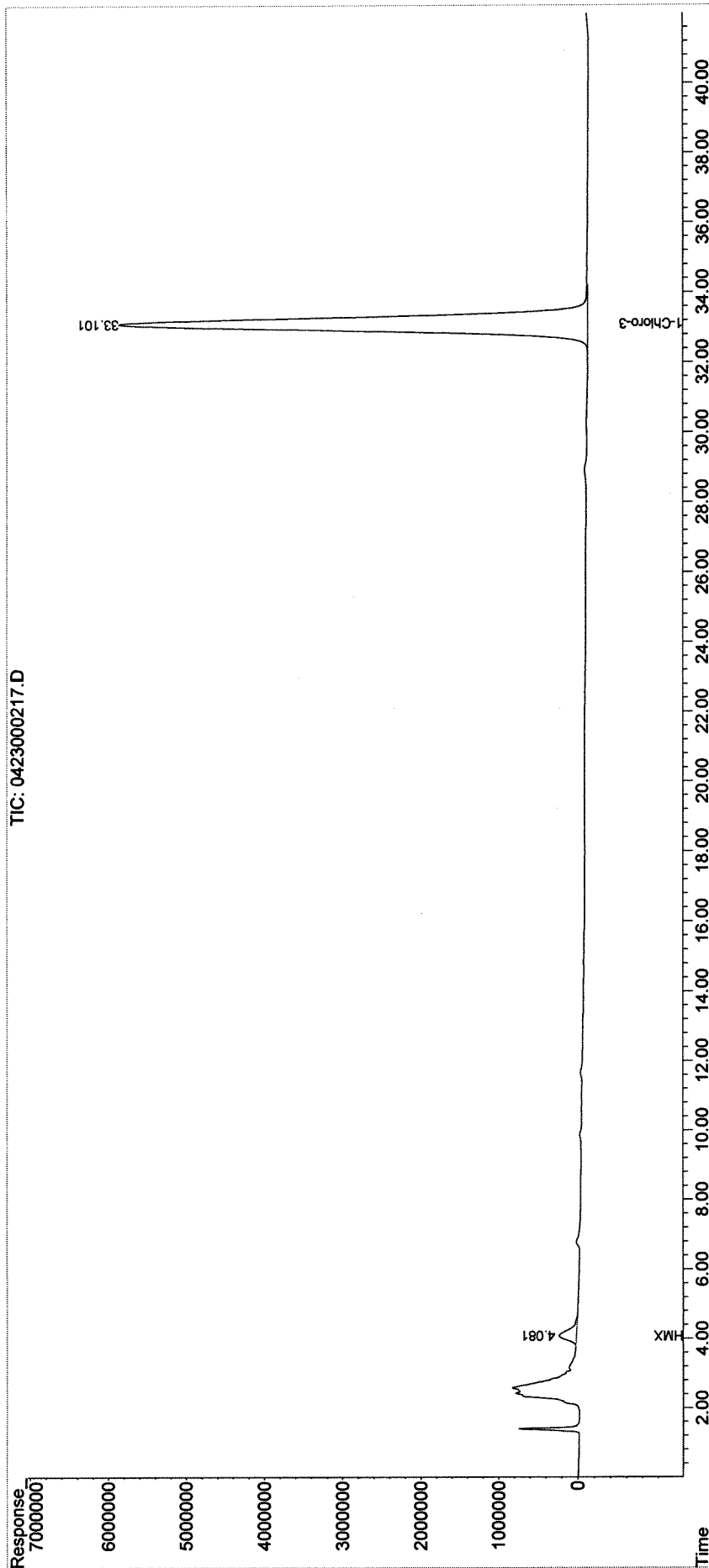
(1) HMX (T)  
4.081min 271.627 ug/L m  
response 4188112

Manual Integration:  
After : *Play*  
MP  
05/01/15  
*llc*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000217.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 14:01:21  
Operator : CFS  
Sample : K1503815-010  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 14:10:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000108.D  
**Lab ID:** K1503815-010  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 05/04/2015 14:42  
**Date Quantitated:** 05/12/2015 12:32  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: llc 5/13/15

Secondary Review: 002 5/13/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\050415X\254\0504000108.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	05/04/2015 14:42	<b>Quant Date:</b>	05/12/2015 12:32
<b>Run Type:</b>	SMPL	<b>Vial:</b>	62
<b>Lab ID:</b>	K1503815-010	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	02	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/13/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1504264	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427793	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
<b>MB Ref:</b>	J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b>	MJ1278
		<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.67	0.03	148586955	4,836	97	23-98 OK	NR

## Target Compounds

			Final Conc. Units:				
			ug/L				
Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.010	U	NR
RDX			0d		0.017	U	NR
1,3,5-Trinitrobenzene	10.06	0.06	369151m	8.15	0.050	U	NR
1,3-Dinitrobenzene	13.42	-0.01	320073	5.23	0.020	J	NR
3,5-Dinitroaniline			0		0.013	U	NR
TETRYL			0		0.042	U	
Nitrobenzene			0		0.013	U	NR
2,4,6-Trinitrotoluene			0		0.024	U	NR
4-Amino-2,6-dinitrotoluene			0		0.016	U	NR
2-Amino-4,6-dinitrotoluene			0		0.0089	U	NR
2,6-Dinitrotoluene			0d		0.054	U	NR
2,4-Dinitrotoluene			0		0.0091	U	NR
2-Nitrotoluene			0		0.032	U	NR
4-Nitrotoluene			0		0.0060	U	NR
3-Nitrotoluene			0		0.0064	U	NR

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000108.D  
 Signal(s) : DAD1A.ch  
 Acq On : 04-May-2015, 14:42:48  
 Operator : CFS  
 Sample : K1503815-010  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:32:39 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:20:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.670	148586955	4835.638	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L d
3) T 1,3,5-TNB	10.063f	369151	8.151	ug/L m
4) T 1,3-DNB	13.423	320073	5.234	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

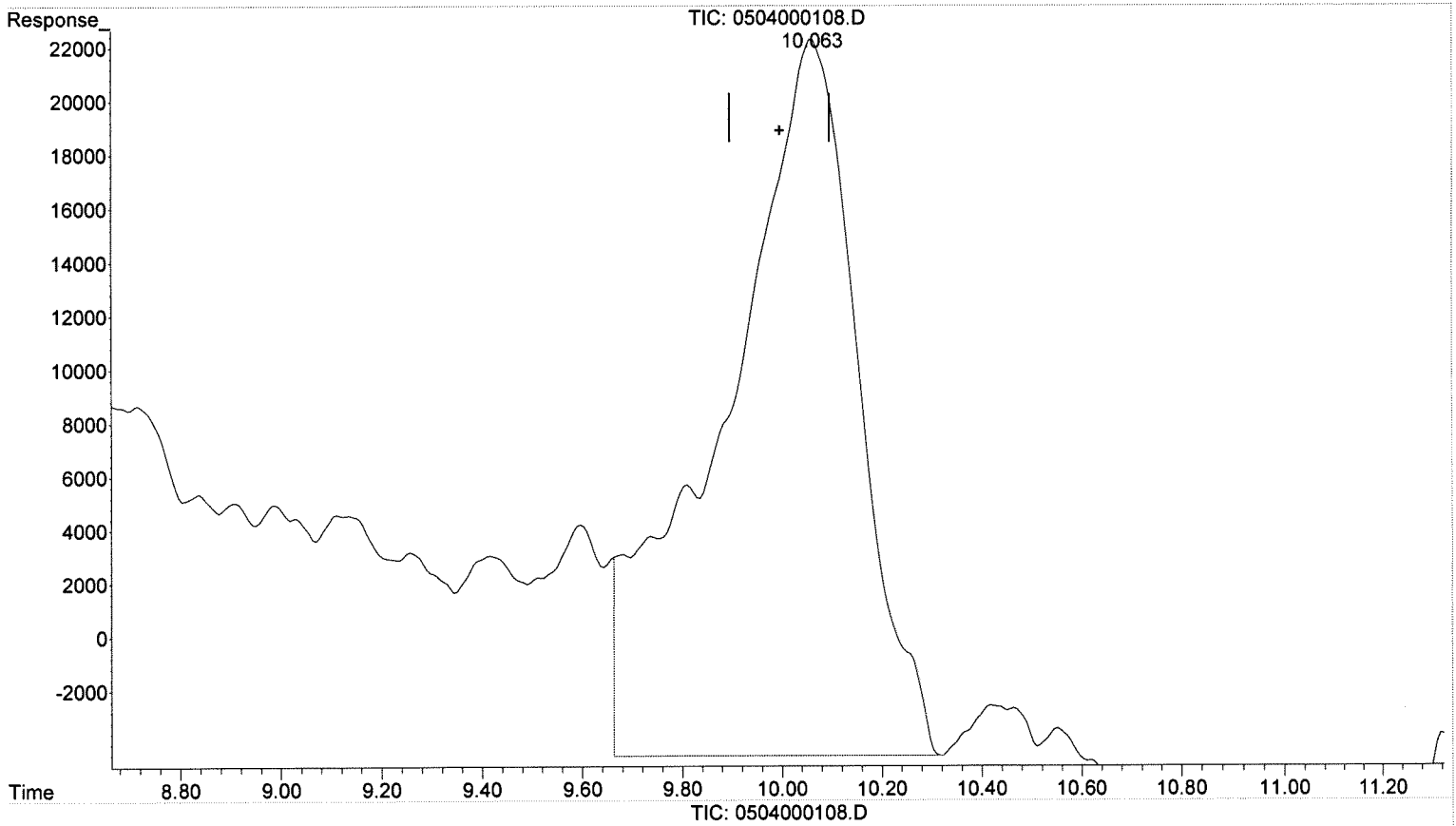
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000108.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 14:42:48  
Operator : CFS  
Sample : K1503815-010  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
10.063min 11.072 ug/L  
response 501448

Manual Integration:  
Before

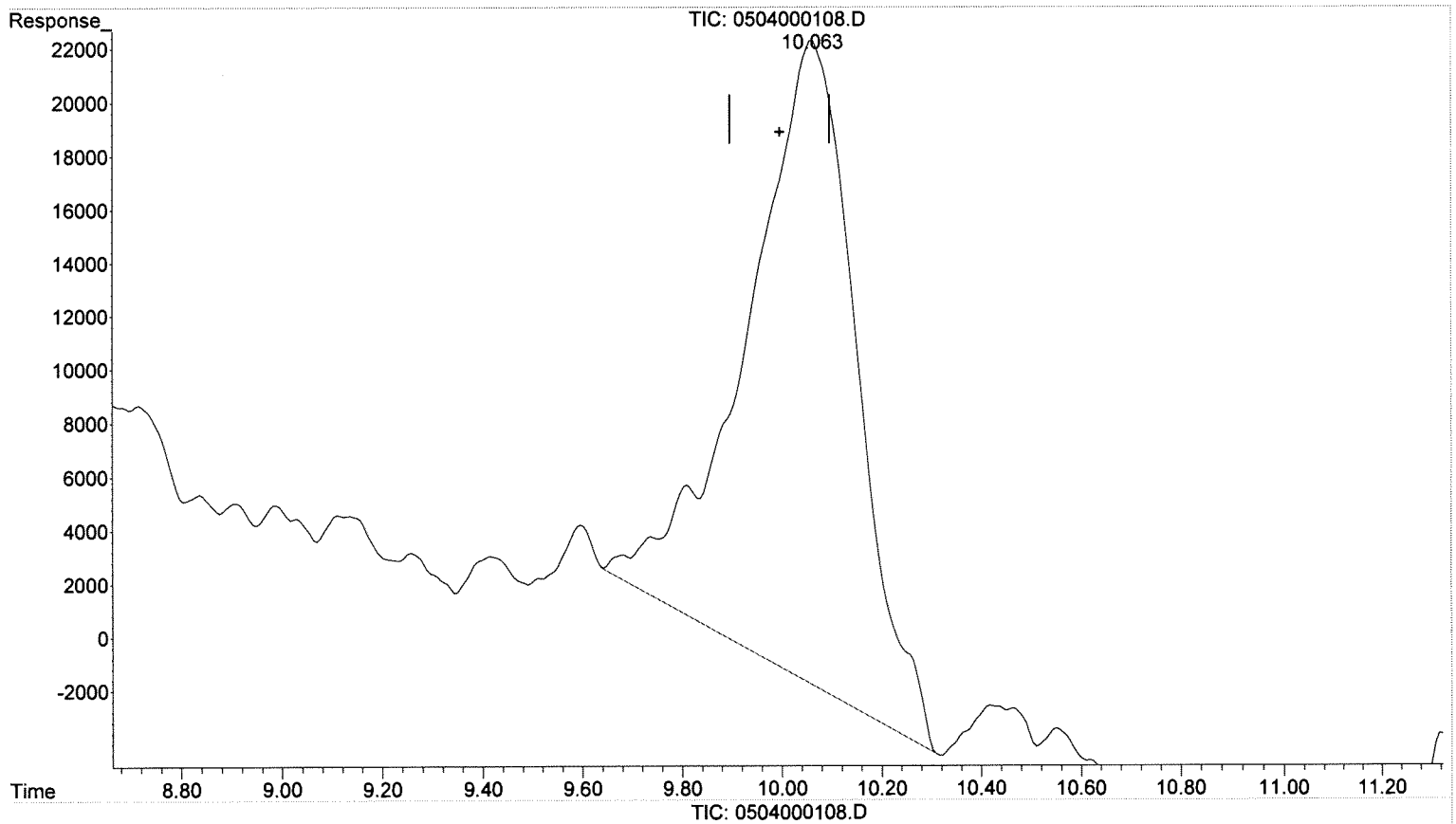
05/12/15

OAK  
5/15/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000108.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 14:42:48  
Operator : CFS  
Sample : K1503815-010  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



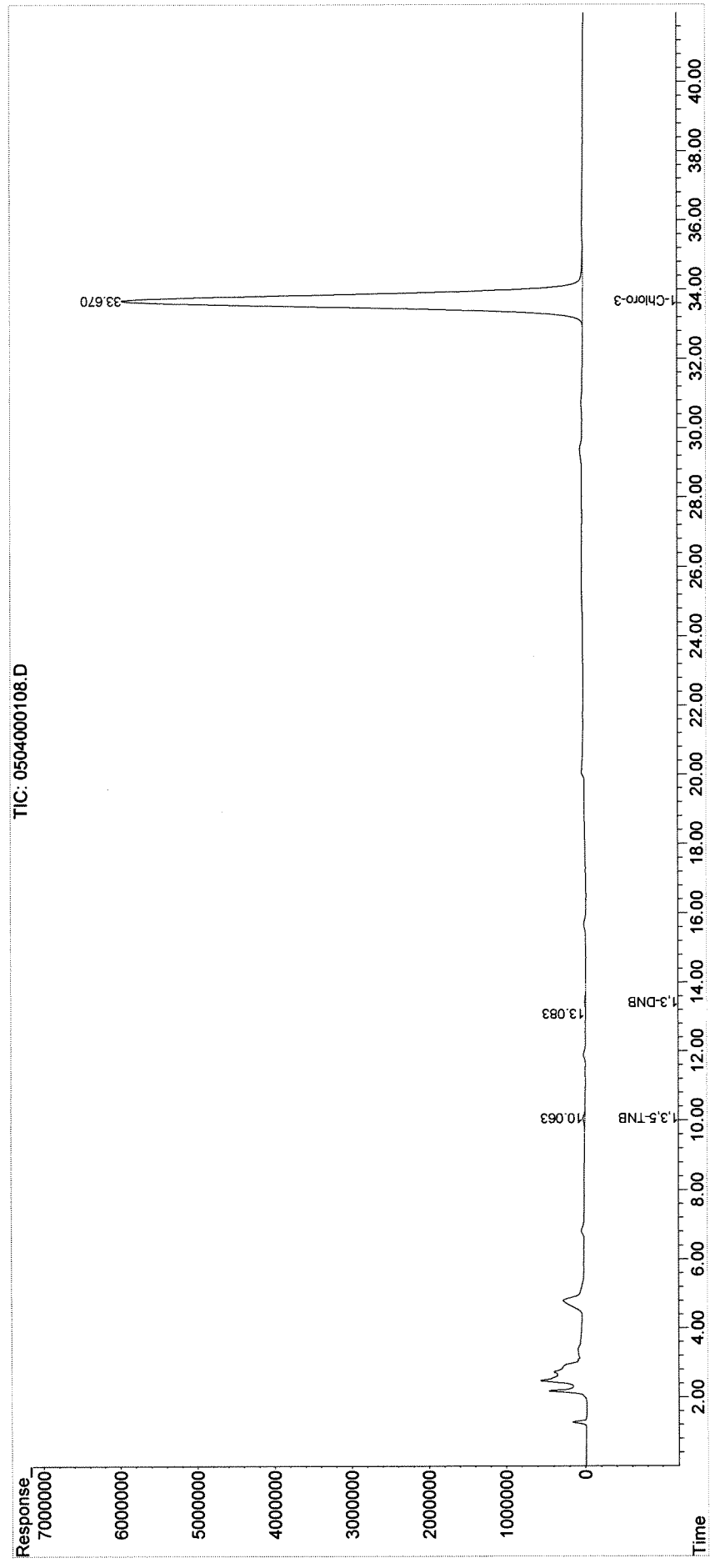
(3) 1,3,5-TNB (T)  
10.063min 8.151 ug/L m  
response 369151

Manual Integration:  
After  
BLC  
05/12/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000108.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 14:42:48  
Operator : CFS  
Sample : K1503815-010  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:32:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CALL3891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000217.D  
**Lab ID:** K1503815-010  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 14:01  
**Date Quantitated:** 05/12/2015 09:09  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: llc 5/12/15

Secondary Review: llc 5.12.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000217.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 14:01	<b>Quant Date:</b> 05/12/2015 09:09
<b>Run Type:</b> SMPL	<b>Vial:</b> 62
<b>Lab ID:</b> K1503815-010	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/13/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427793	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

### Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.10	-0.22	397455388	4,790	96	23-98	OK	NR

### Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0d		0.39	U	
Pentaerythritol Tetranitrate			0		0.18	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000217.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 14:01:21  
 Operator : CFS  
 Sample : K1503815-010  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:09:25 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	33.101f	397455388	4789.678	ug/L
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L d
2) T PETN	0.000	0	N.D.	ug/L
-----				

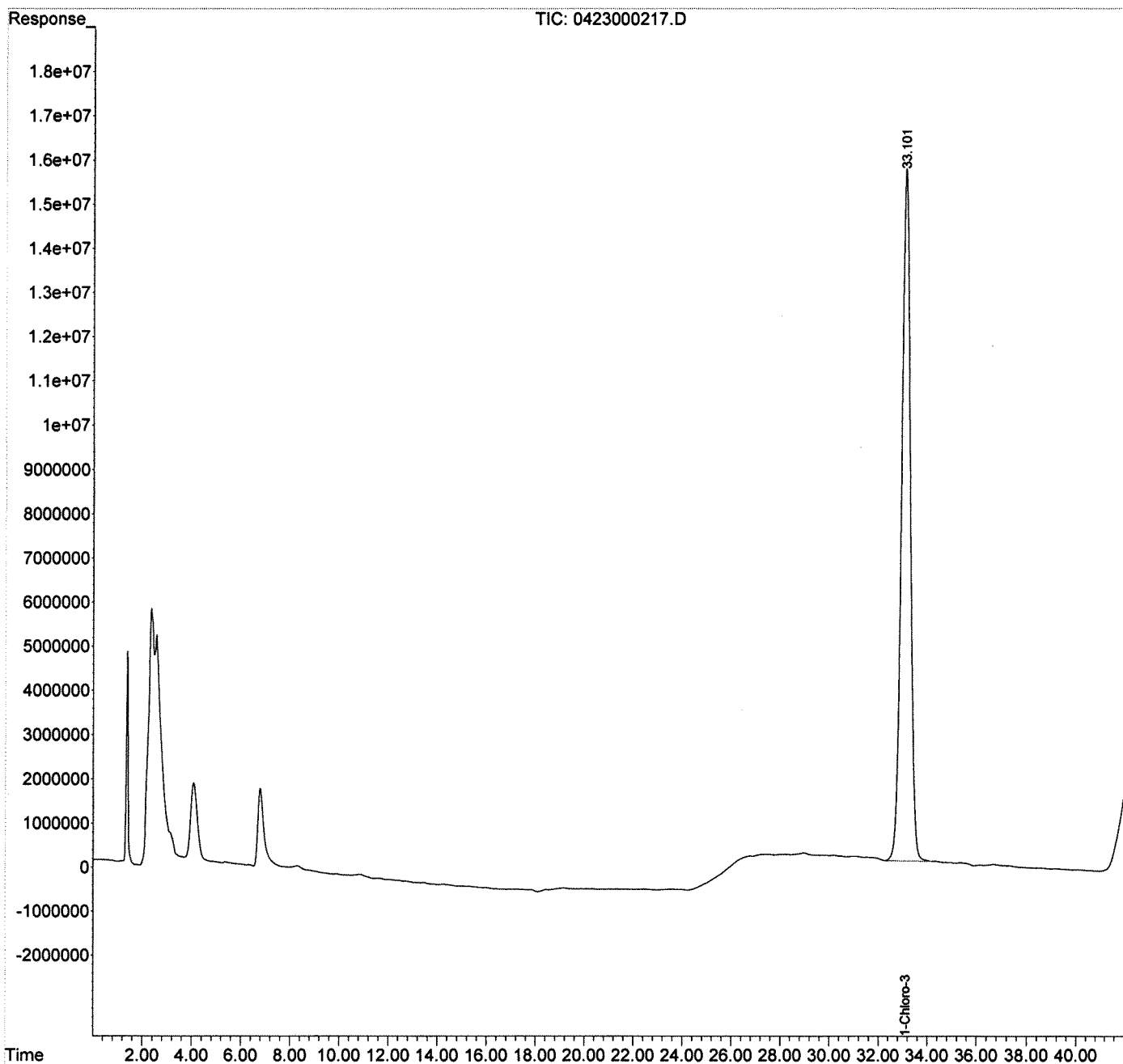
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000217.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 14:01:21  
Operator : CFS  
Sample : K1503815-010  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:09:25 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm





Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000118.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 18:35:33  
Operator : CFS  
Sample : K1503815-010  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:10 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm

1040 mL → 4 mL

SX  
conc  
(ug/L)

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
11) S 1-Chloro-3-Nitrobenzene	32.470	145358947	5271.277	ug/L
<b>Target Compounds</b>				
1) T HMX	0.000	0	N.D.	ug/L NC
2) T RDX	0.000	0	N.D.	ug/L
3) T Nitrobenzene	0.000	0	N.D.	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	52.964f	7656274	135.161	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window

(m)=manual int.

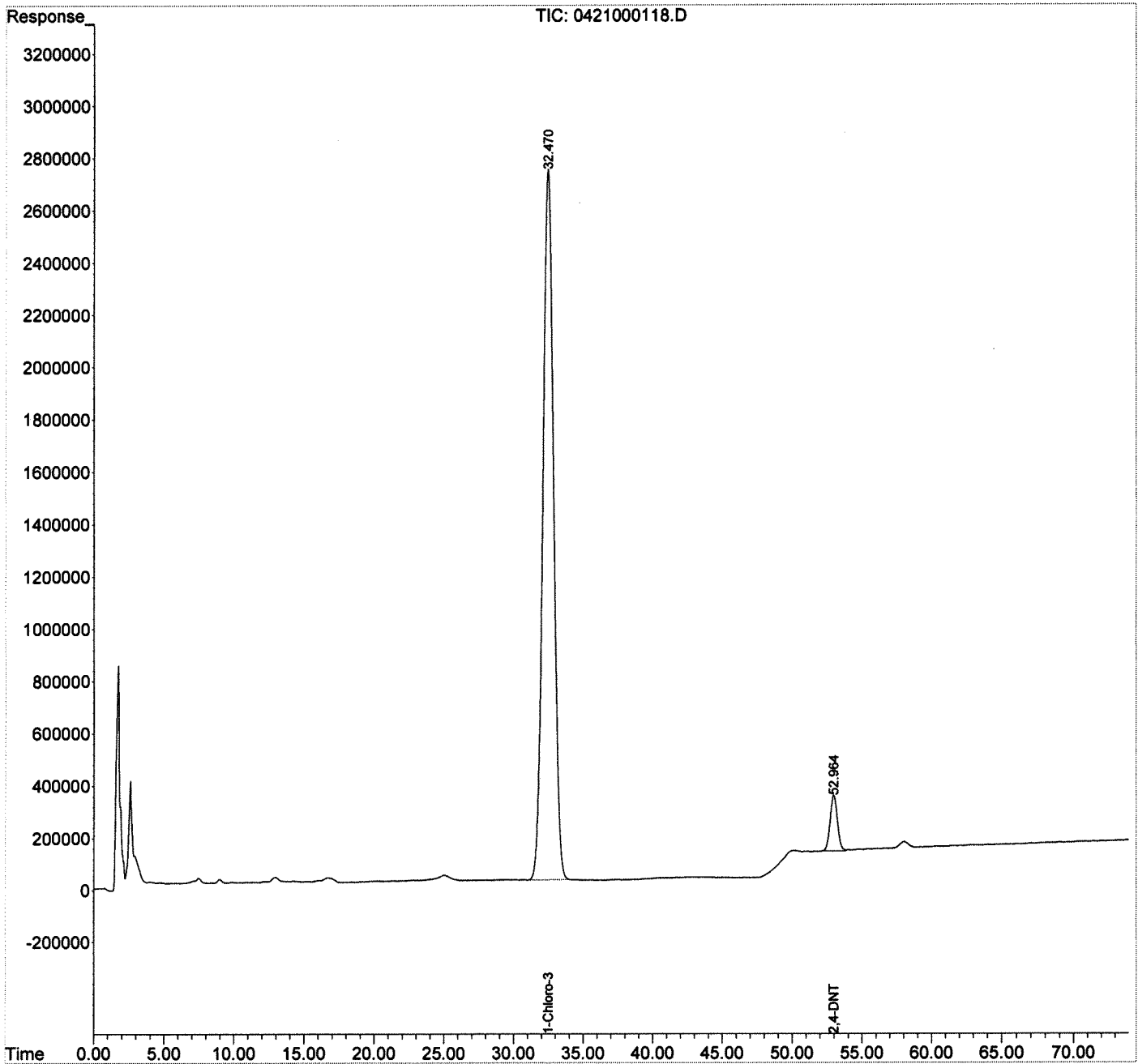
lu 5/15/15



Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000118.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 18:35:33  
Operator : CFS  
Sample : K1503815-010  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:10 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000218.D  
**Lab ID:** K1503815-011  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 15:12  
**Date Quantitated:** 05/01/2015 14:12  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

## Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	TETRYL	-31.6	NA	20	<i>confirm 10.11.15</i> <i>AREW 5/5/15</i>

Primary Review: *5/5/15*

Secondary Review: *5/12/15*

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000218.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 15:12	<b>Quant Date:</b> 05/01/2015 14:12
<b>Run Type:</b> SMPL	<b>Vial:</b> 63
<b>Lab ID:</b> K1503815-011	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 02	<b>Tier:</b> V	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b> 04/14/2015	<b>Receive Date:</b> 04/14/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b> K1503815
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427794	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b> Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b> LJ13249
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Report List</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.19	-0.13	143108343	4,657	93	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX			0		0.010	U	
RDX	7.12	-0.02	524540m	20.30	0.078	J	J
1,3,5-Trinitrobenzene	9.93		523305m	11.55	0.050	U	
1,3-Dinitrobenzene			0		0.0085	U	
3,5-Dinitroaniline			0d		0.013	U	
TETRYL			0d		0.042	U	NR
Nitrobenzene			0		0.013	U	
2,4,6-Trinitrotoluene			0		0.024	U	
4-Amino-2,6-dinitrotoluene			0		0.016	U	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	
2,6-Dinitrotoluene			0		0.054	U	
2,4-Dinitrotoluene			0		0.0091	U	
2-Nitrotoluene			0d		0.032	U	
4-Nitrotoluene			0d		0.0060	U	
3-Nitrotoluene			0d		0.0064	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000218.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 15:12:08  
 Operator : CFS  
 Sample : K1503815-011  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:12:07 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.189f	143108343	4657.341	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	7.116	524540	20.296	ug/L m
3) T 1,3,5-TNB	9.929	523305	11.554	ug/L m
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L d
6) T Tetryl	0.000	0	N.D.	ug/L d
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L d
15) T 3-NT	0.000	0	N.D.	ug/L d
-----				

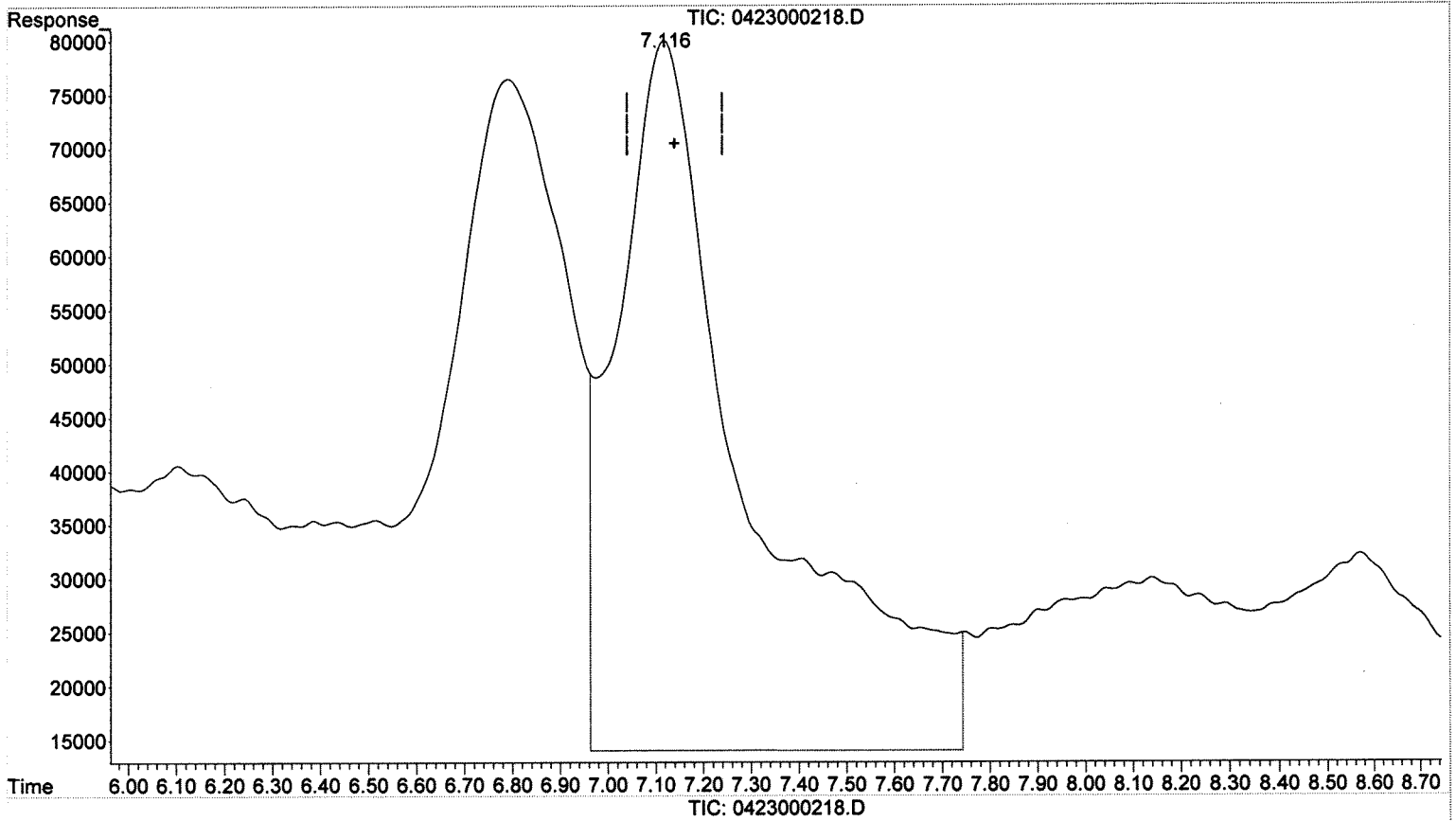
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000218.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 15:12:08  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.116min 58.488 ug/L  
response 1288906

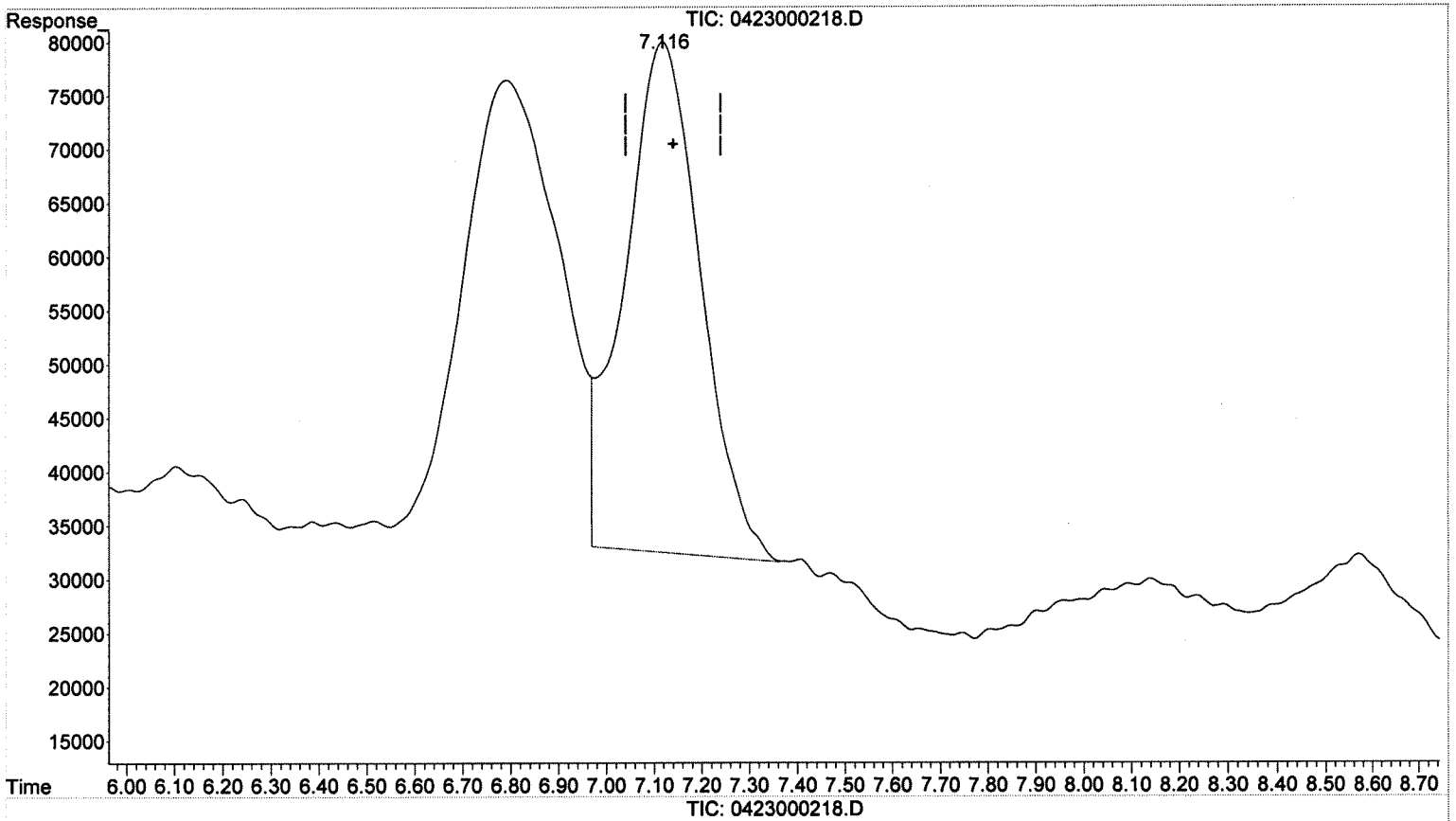
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000218.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 15:12:08  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



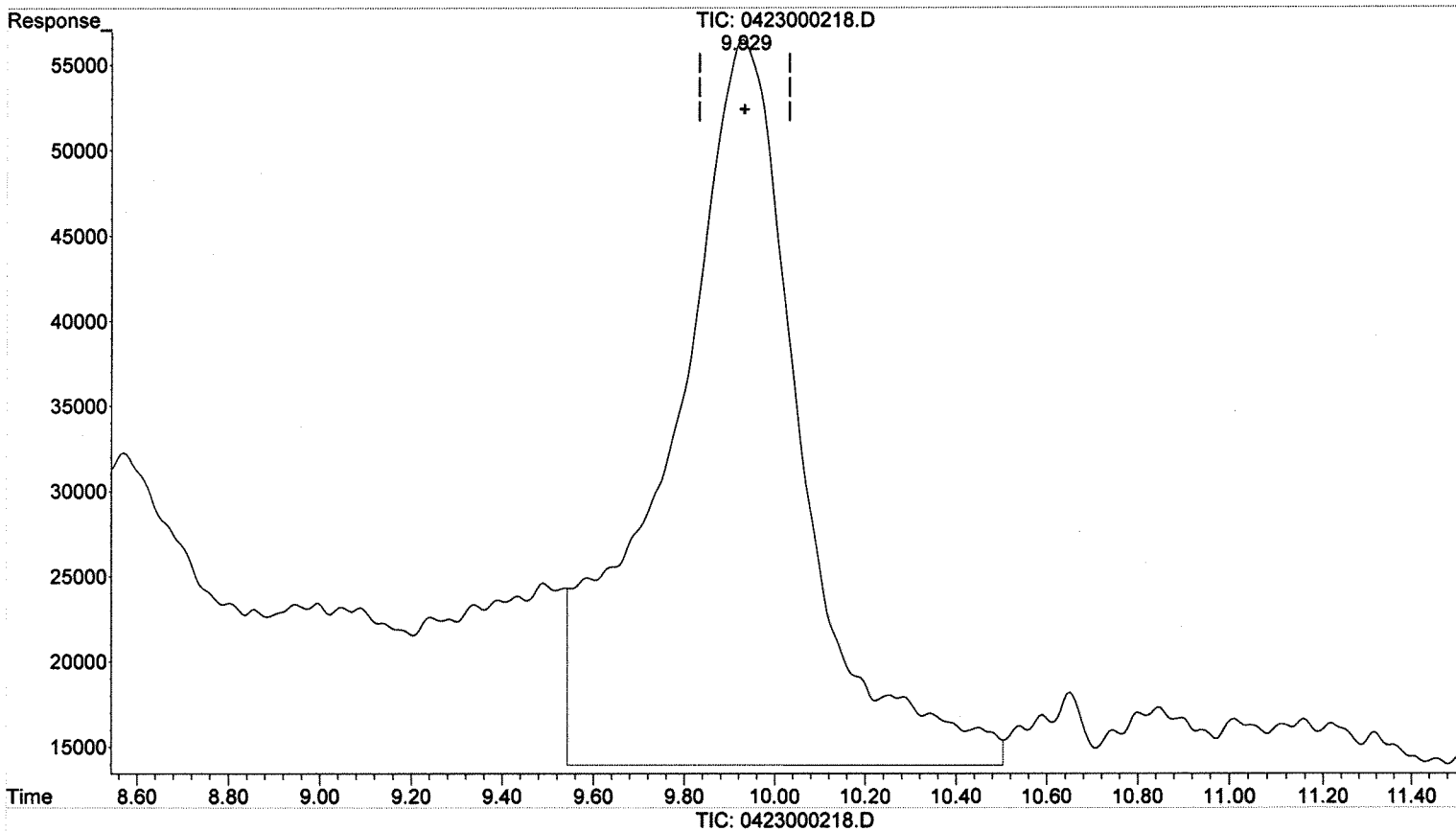
(2) RDX (T)  
7.116min 20.296 ug/L m  
response 524540

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000218.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 15:12:08  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.929min 18.956 ug/L  
response 858545

Manual Integration:  
Before

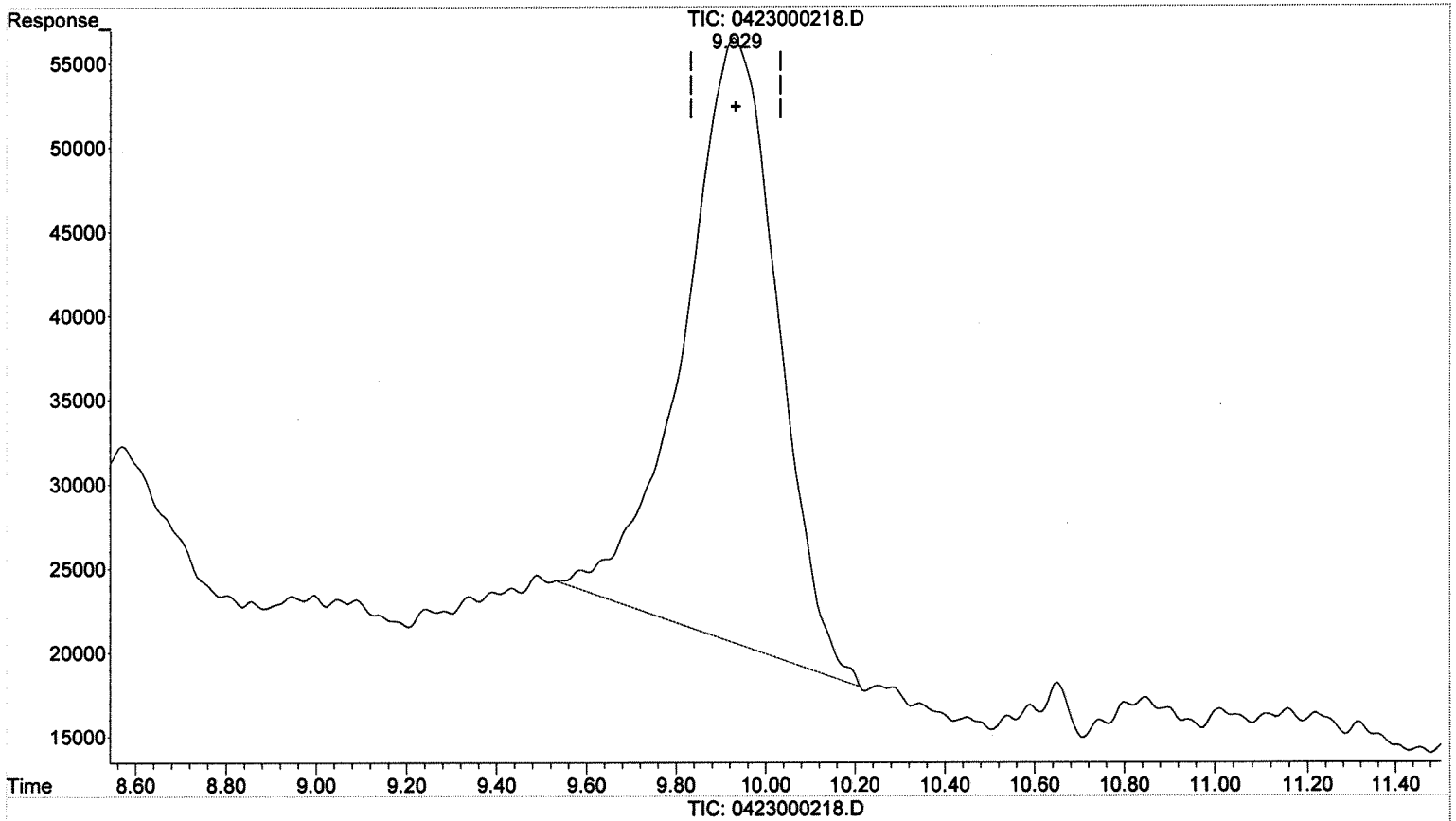
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000218.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 15:12:08  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



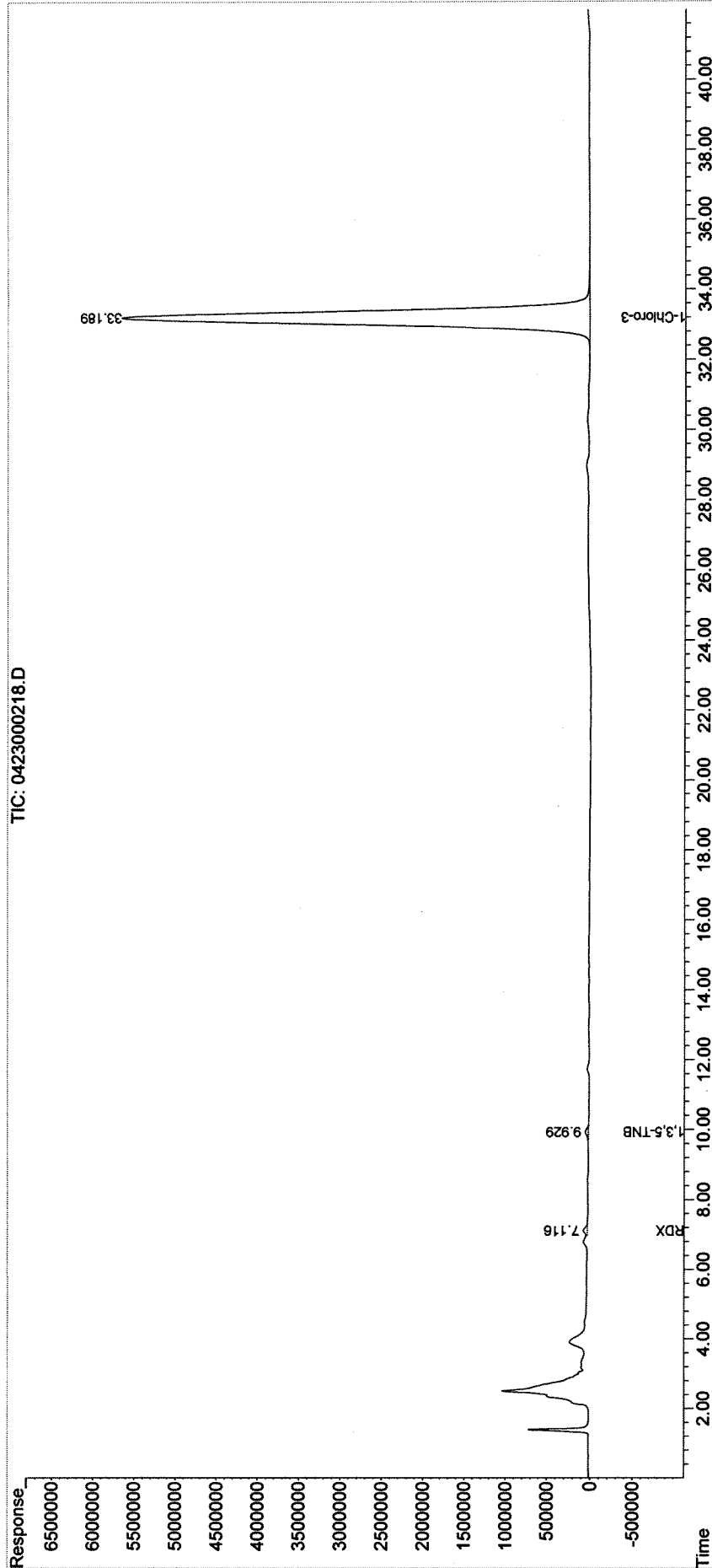
(3) 1,3,5-TNB (T)  
9.929min 11.554 ug/L m  
response 523305

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000218.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 15:12:08  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 14:12:07 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000110.D  
**Lab ID:** K1503815-011  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 05/04/2015 16:06  
**Date Quantitated:** 05/12/2015 12:33  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Parent? No

Primary Review: du 5/13/15

Secondary Review: QA 5/15/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\050415X\254\0504000110.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	05/04/2015 16:06	<b>Quant Date:</b>	05/12/2015 12:33
<b>Run Type:</b>	SMPL	<b>Vial:</b>	63
<b>Lab ID:</b>	K1503815-011	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	02	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/14/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1504264	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427794	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
<b>MB Ref:</b>	J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b>	MJ1278
		<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.81	0.17 ✓	73551320	2,394	48	23-98	OK	NR

## Target Compounds

			Final Conc. Units:					
			ug/L					
Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?	
HMX			0		0.010	U	NR	
RDX			0		0.017	U	NR	
1,3,5-Trinitrobenzene			0		0.050	U	NR	
1,3-Dinitrobenzene	13.53	0.10 ✓	198772m	3.25	0.013	J	NR	
3,5-Dinitroaniline			0		0.013	U	NR	
TETRYL			0		0.042	U		
Nitrobenzene	15.79	-0.06	385595m	9.95	0.038	J	NR	
2,4,6-Trinitrotoluene			0		0.024	U	NR	
4-Amino-2,6-dinitrotoluene			0		0.016	U	NR	
2-Amino-4,6-dinitrotoluene			0		0.0089	U	NR	
2,6-Dinitrotoluene			0		0.054	U	NR	
2,4-Dinitrotoluene			0		0.0091	U	NR	
2-Nitrotoluene			0		0.032	U	NR	
4-Nitrotoluene			0		0.0060	U	NR	
3-Nitrotoluene			0		0.0064	U	NR	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000110.D  
 Signal(s) : DAD1A.ch  
 Acq On : 04-May-2015, 16:06:24  
 Operator : CFS  
 Sample : K1503815-011  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:33:22 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:20:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.811f	73551320	2393.666	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	13.531f	198772	3.250	ug/L m
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	15.791	385595	9.950	ug/L m
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

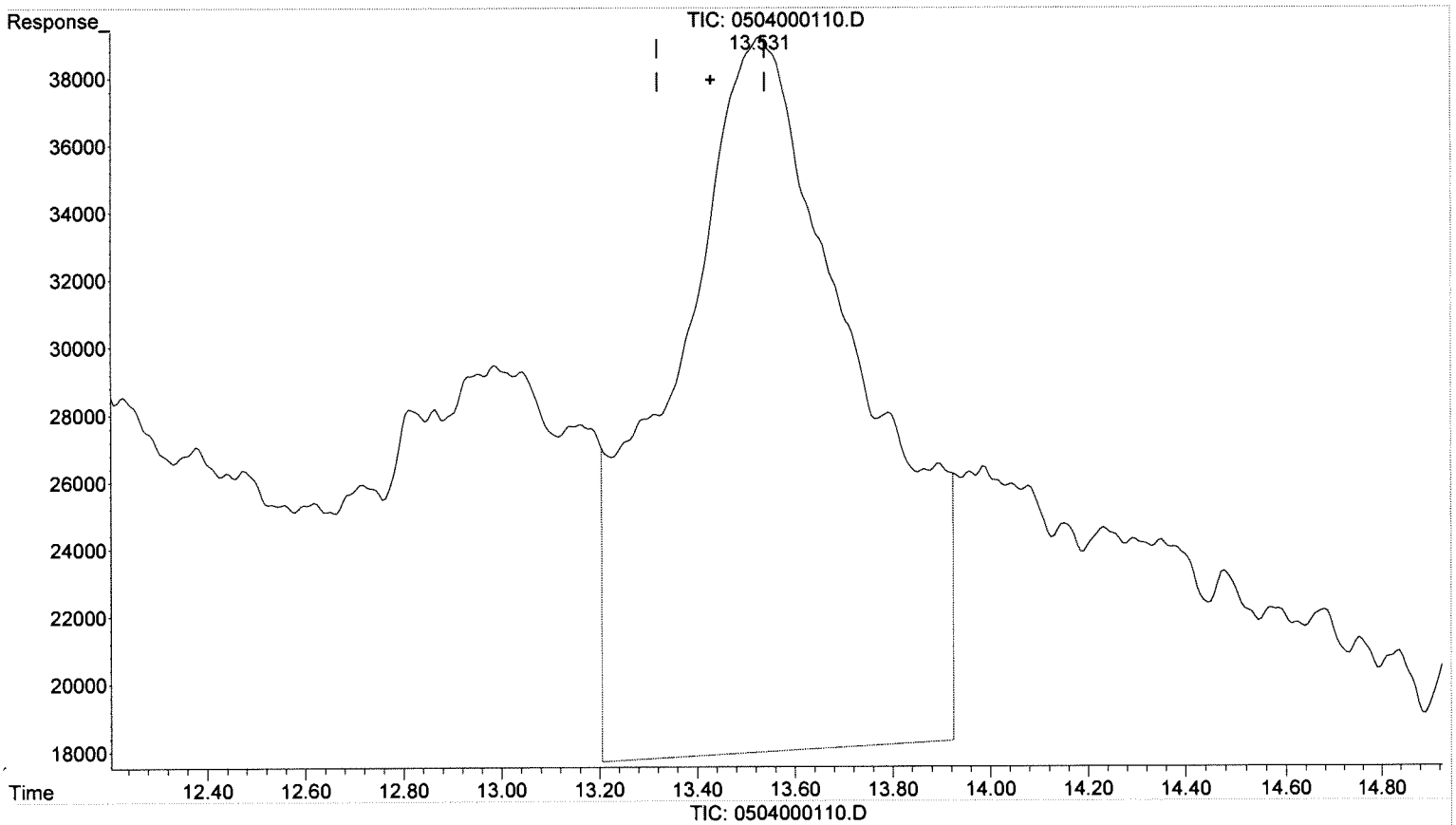
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000110.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 16:06:24  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.531min 9.255 ug/L  
response 565996

Manual Integration:  
Before

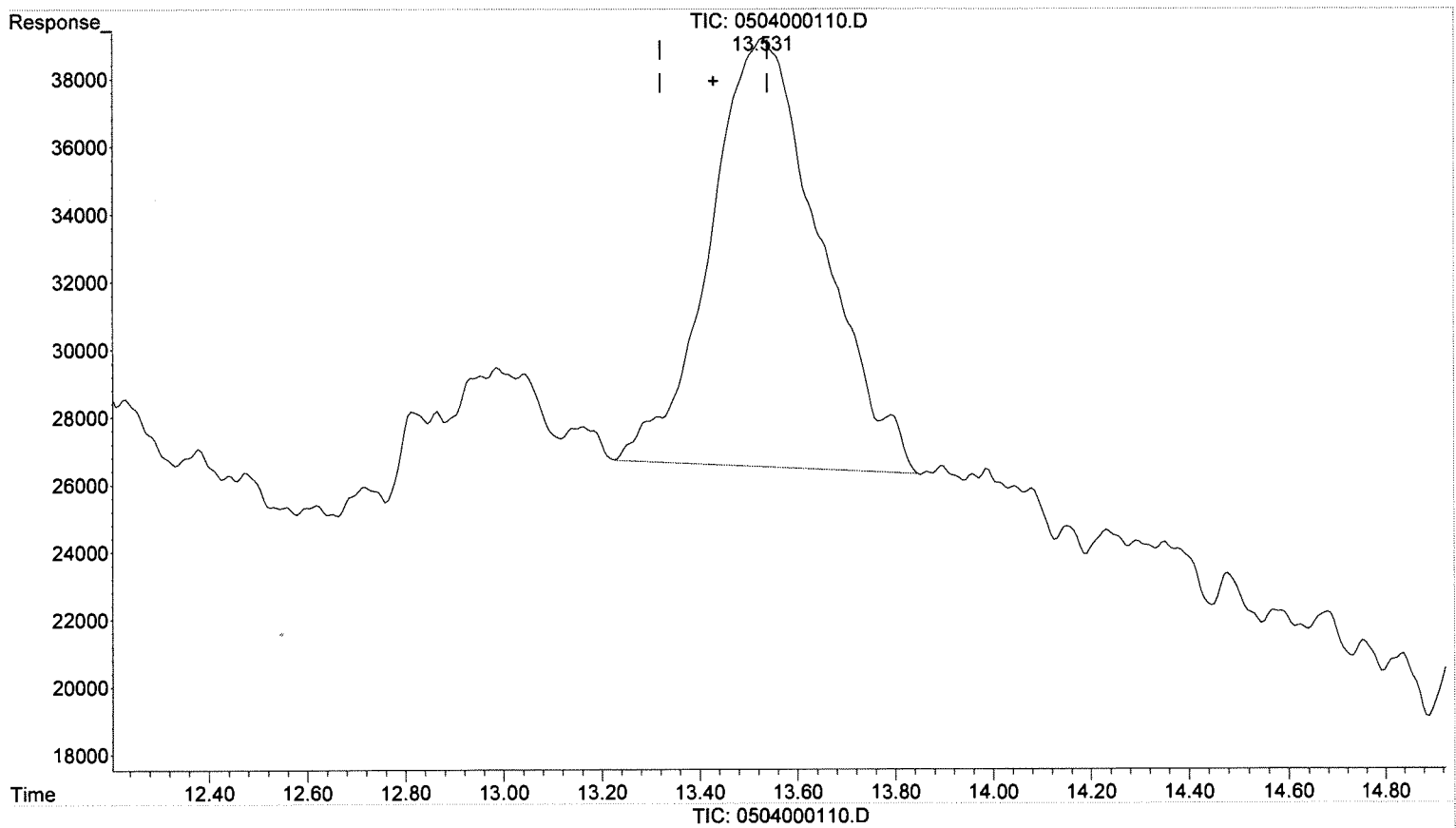
05/12/15

515.15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000110.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 16:06:24  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



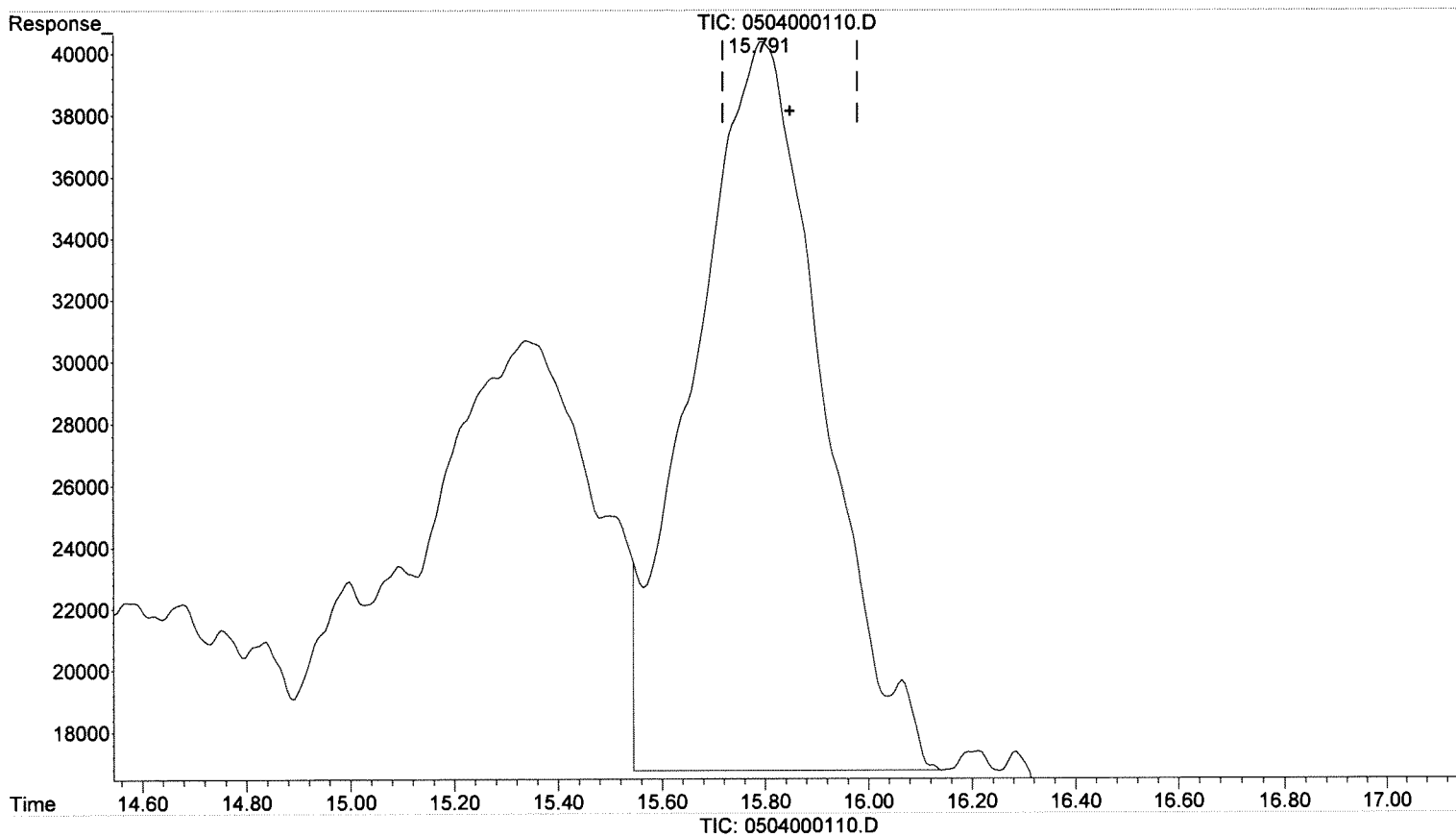
(4) 1,3-DNB (T)  
13.531min 3.250 ug/L m  
response 198772

Manual Integration:  
After  
BLC  
05/12/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000110.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 16:06:24  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.791min 10.588 ug/L  
response 410304

Manual Integration:  
Before

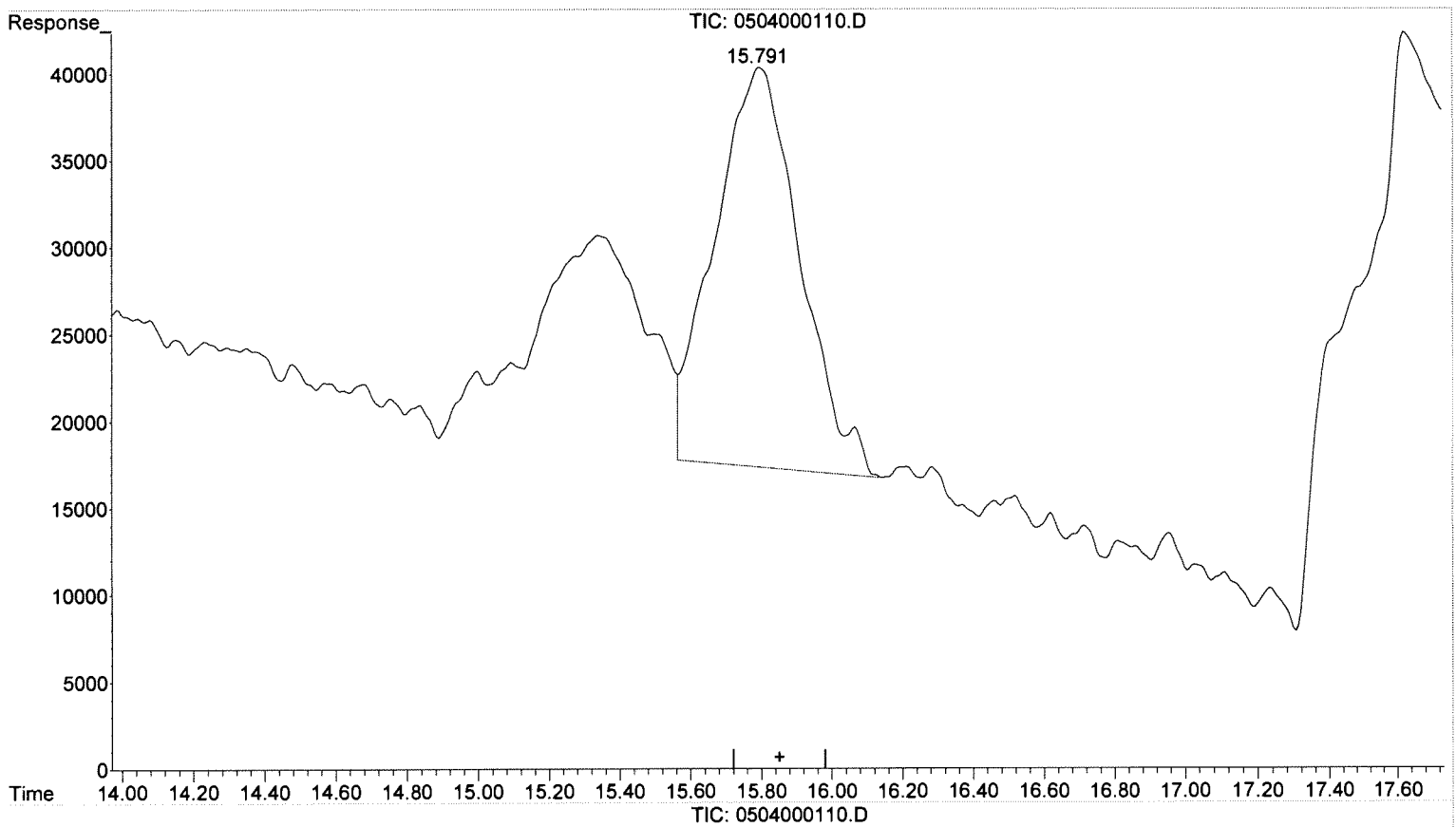
05/12/15



Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000110.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 16:06:24  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.791min 9.950 ug/L m  
response 385595

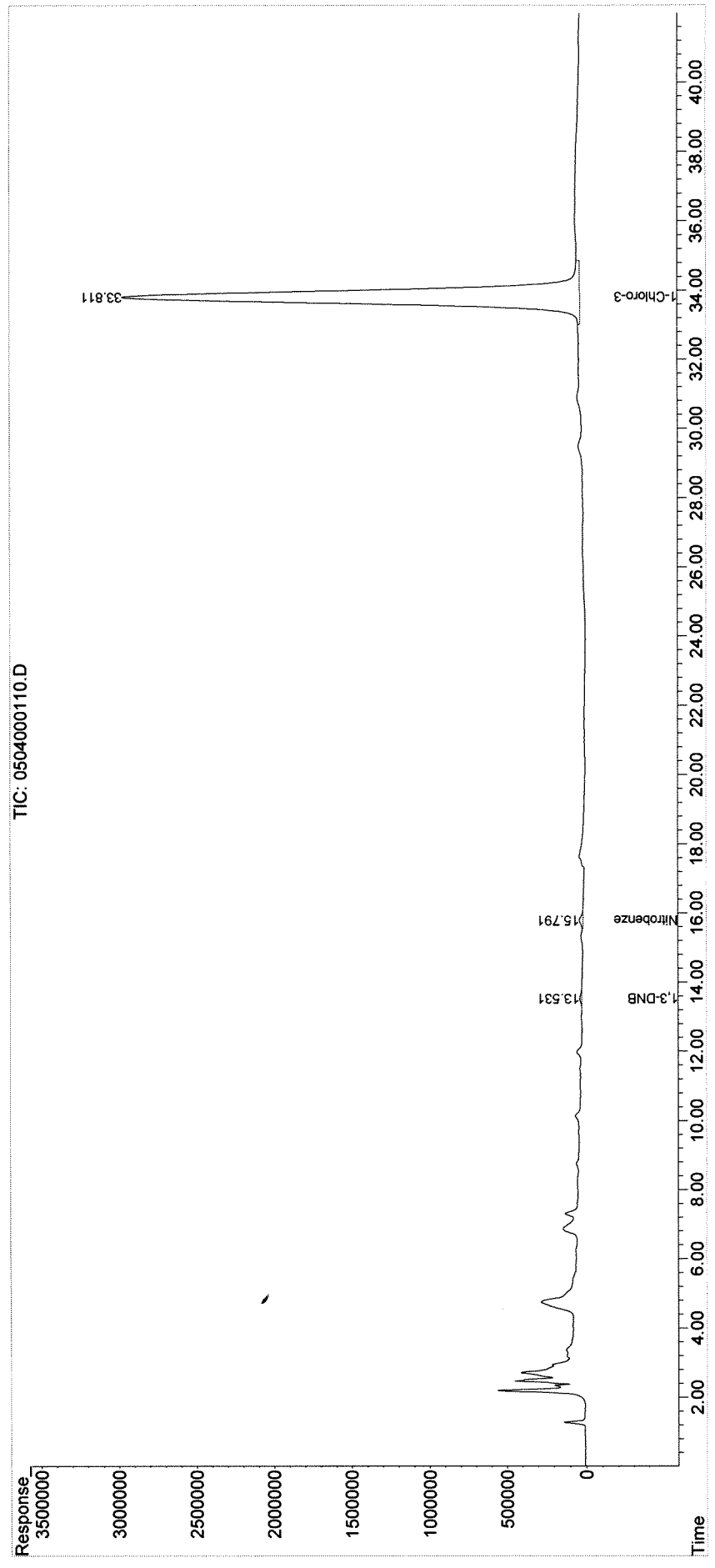
Manual Integration:  
After  
BLC  
05/12/15 *[Signature]*

*[Handwritten signature]*  
515.15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000110.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 16:06:24  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:33:22 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CALL3891  
Quant Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000218.D  
**Lab ID:** K1503815-011  
**RunType:** SMPL  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 15:12  
**Date Quantitated:** 05/12/2015 09:05  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**ListJoinID:** LJ13249

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: lu 5/12/15

Secondary Review: QA 5/12/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\210\0423000218.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 15:12	<b>Quant Date:</b>	05/12/2015 09:05
<b>Run Type:</b>	SMPL	<b>Vial:</b>	63
<b>Lab ID:</b>	K1503815-011	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	02	<b>Tier:</b>	V	<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>	04/14/2015	<b>Receive Date:</b>	04/14/2015

<b>Analysis Lot:</b>	KWG1503922	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	K1503815
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427794	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13892
<b>Title:</b>	Nitroaromatics and Nitramines (Explosives)	<b>Report List ID:</b>	LJ13249
<b>MB Ref:</b>	J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b>	MJ1278
		<b>Quant based on Report List</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.19	-0.13	372404302	4,488	90	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0		0.18	U	

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000218.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 15:12:08  
 Operator : CFS  
 Sample : K1503815-011  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:05:42 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	33.189f	372404302	4487.791	ug/L
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L
-----				

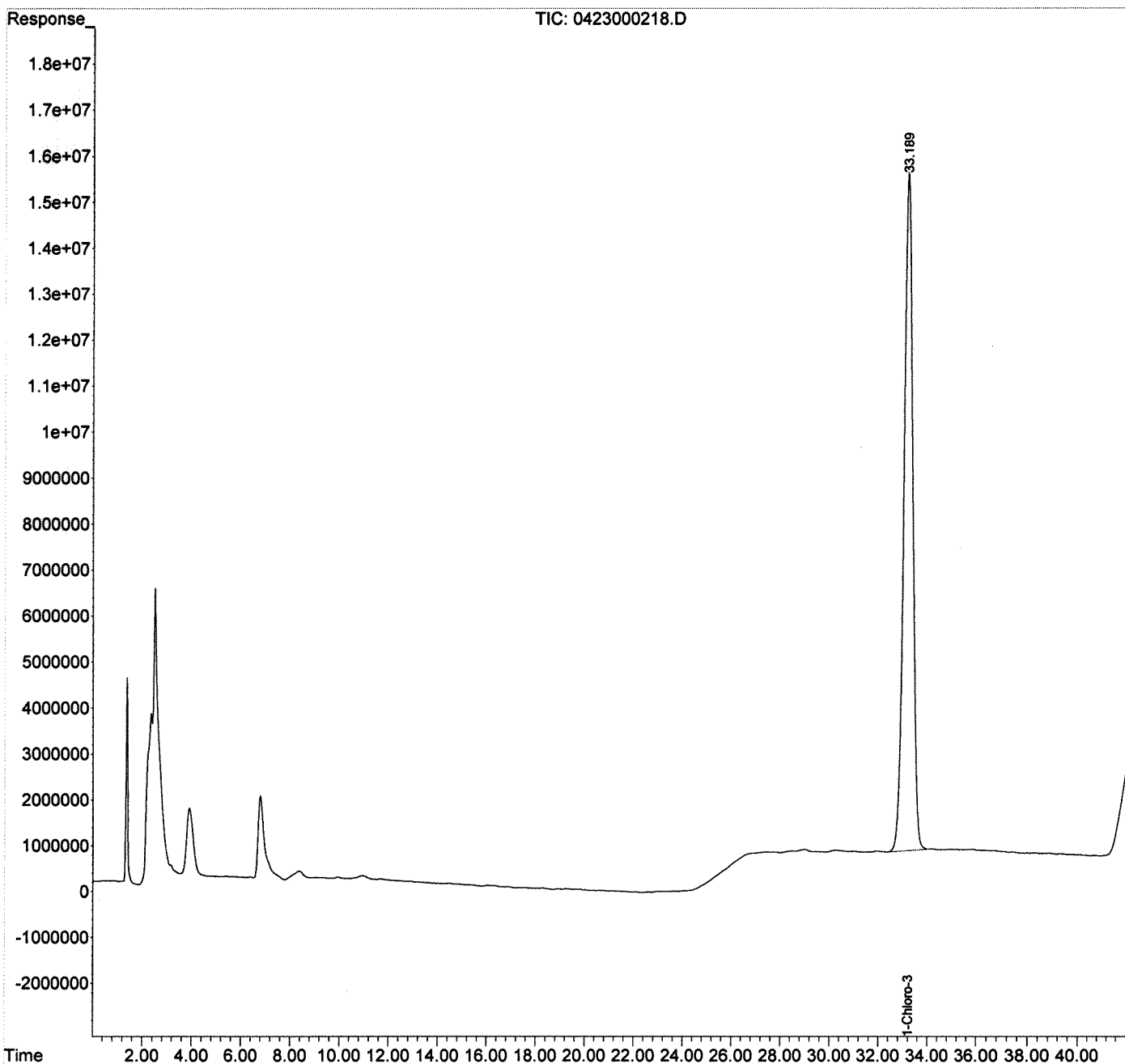
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000218.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 15:12:08  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:05:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000119.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 20:11:48  
 Operator : CFS  
 Sample : K1503815-011  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 08:58:12 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:57:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

*1040mL → 4.0mL*

*Sx  
 conc  
 (ug/L)*

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
11) S 1-Chloro-3-Nitrobenzene	32.462	137980883	5003.720	ug/L
<b>Target Compounds</b>				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	7.091	825868	42.045	ug/L
3) T Nitrobenzene	12.932	1072213	28.638	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	52.959f	7561753	133.493	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

*0.16 J*

(f)=RT Delta > 1/2 Window

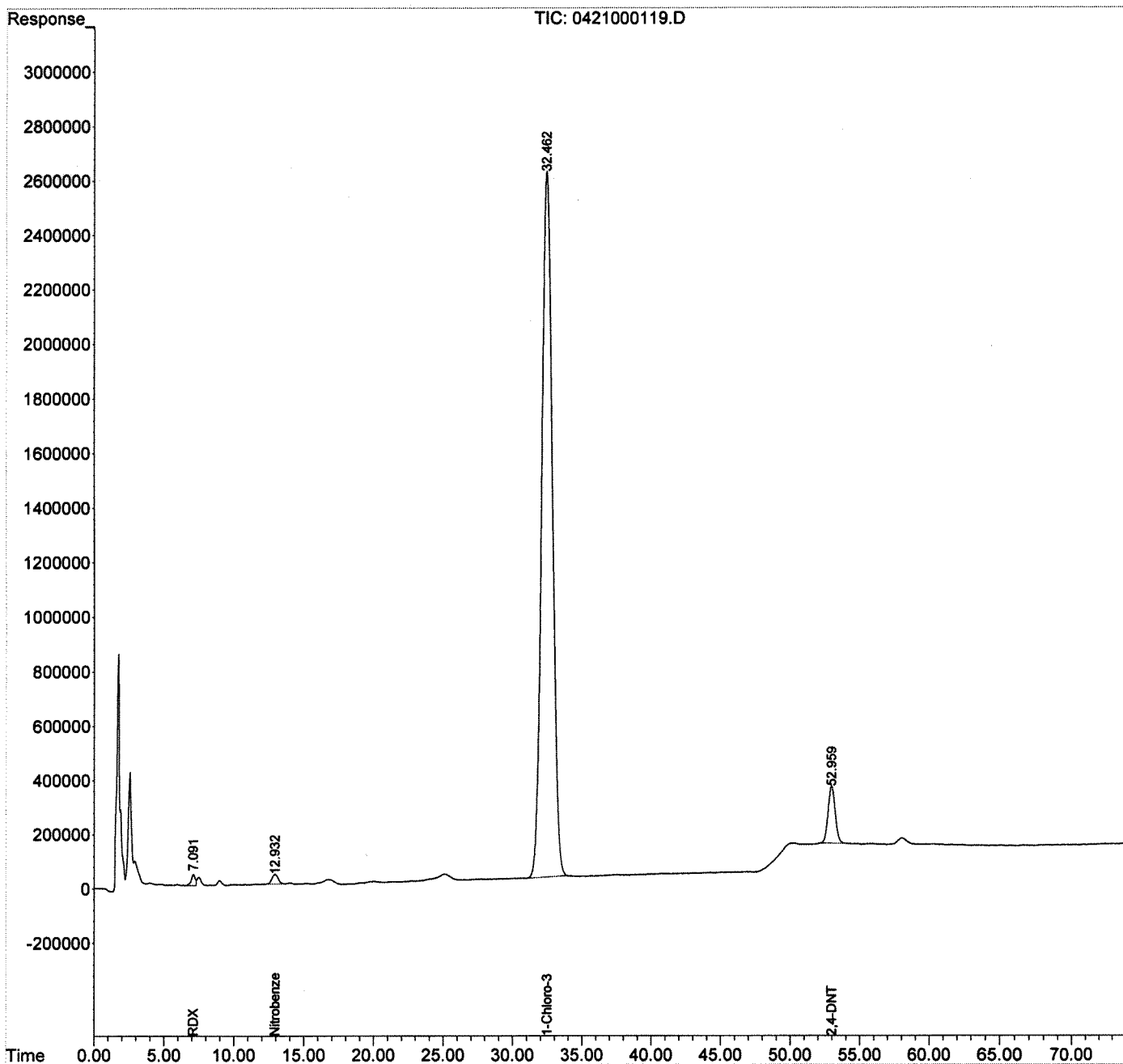
(m)=manual int.

*lu 5/5/15*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000119.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 20:11:48  
Operator : CFS  
Sample : K1503815-011  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:12 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm





# Exception Report

Data File: J:\LC10\DATA\042315X\254\0423000204.D  
Lab ID: KWG1503332-4  
RunType: MB  
Matrix: WATER

Date Acquired: 04/23/2015 22:41  
Date Quantitated: 05/01/2015 10:33  
Batch ID: KWG1503923  
Analysis Method: 8330B  
MethodJoinID: MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

3815

Primary Review:           5/15/15

Secondary Review:           5/12/15

# Quantitation Report

Data File:	J:\LC10\DATA\042315X\254\0423000204.D	Instrument:	LC10
Acqu Date:	04/23/2015 22:41	Quant Date:	05/01/2015 10:33
Run Type:	MB	Vial:	51
Lab ID:	KWG1503332-4	Dilution:	1.0
		Soln Conc. Units:	ug/L

Bottle ID:	Tier:	Matrix:	WATER
Prod Code:	8330B NitramAro	Collect Date:	Receive Date: 04/20/2015

Analysis Lot:	KWG1503923	Prep Lot:	KWG1503332
Analysis Method:	8330B	Prep Method:	METHOD
Prep Ref:	1427798	Prep Date:	04/20/2015
		Report Group:	

Quant Method:	J:\LC10\METHOD\031615_8330B	Calibration ID:	CAL13891
Title:		Method ID:	MJ1278
MB Ref:		Quant based on Method	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.46	0.02	137321144	4,469	89	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.32	-0.02	2235022m	144.96	0.580		U <i>NC</i>
RDX			0		0.017		U
1,3,5-Trinitrobenzene	9.99	0.04	603878m	13.33	0.0533		J <i>NC</i>
1,3-Dinitrobenzene	13.37	0.02	465099m	7.61	0.0304		J <i>NC</i>
3,5-Dinitroaniline			0d		0.013		U
TETRYL			0d		0.042		U
Nitrobenzene			0		0.013		U
2,4,6-Trinitrotoluene			0d		0.024		U
4-Amino-2,6-dinitrotoluene			0d		0.016		U
2-Amino-4,6-dinitrotoluene			0		0.0089		U
2,6-Dinitrotoluene			0d		0.054		U
2,4-Dinitrotoluene			0		0.0091		U
2-Nitrotoluene			0		0.032		U
4-Nitrotoluene			0		0.0060		U
3-Nitrotoluene			0		0.0064		U

Prep Amount: 1000 ml                      Dilution: 1.0  
 Prep Final Vol: 4.0 ml                      Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000204.D  
 Signal(s) : DAD1A.ch  
 Acq On : 23-Apr-2015, 22:41:17  
 Operator : CFS  
 Sample : KWG1503332-4 MB  
 Misc :  
 ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 10:33:54 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.460	137321144	4469.002	ug/L
Target Compounds				
1) T HMX	4.320	2235022	144.956	ug/L m <i>NC</i>
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	9.986	603878	13.333	ug/L m <i>NC</i>
4) T 1,3-DNB	13.366	465099	7.605	ug/L m <i>NC</i>
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L d
6) T Tetryl	0.000	0	N.D.	ug/L d
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L d
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L d
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

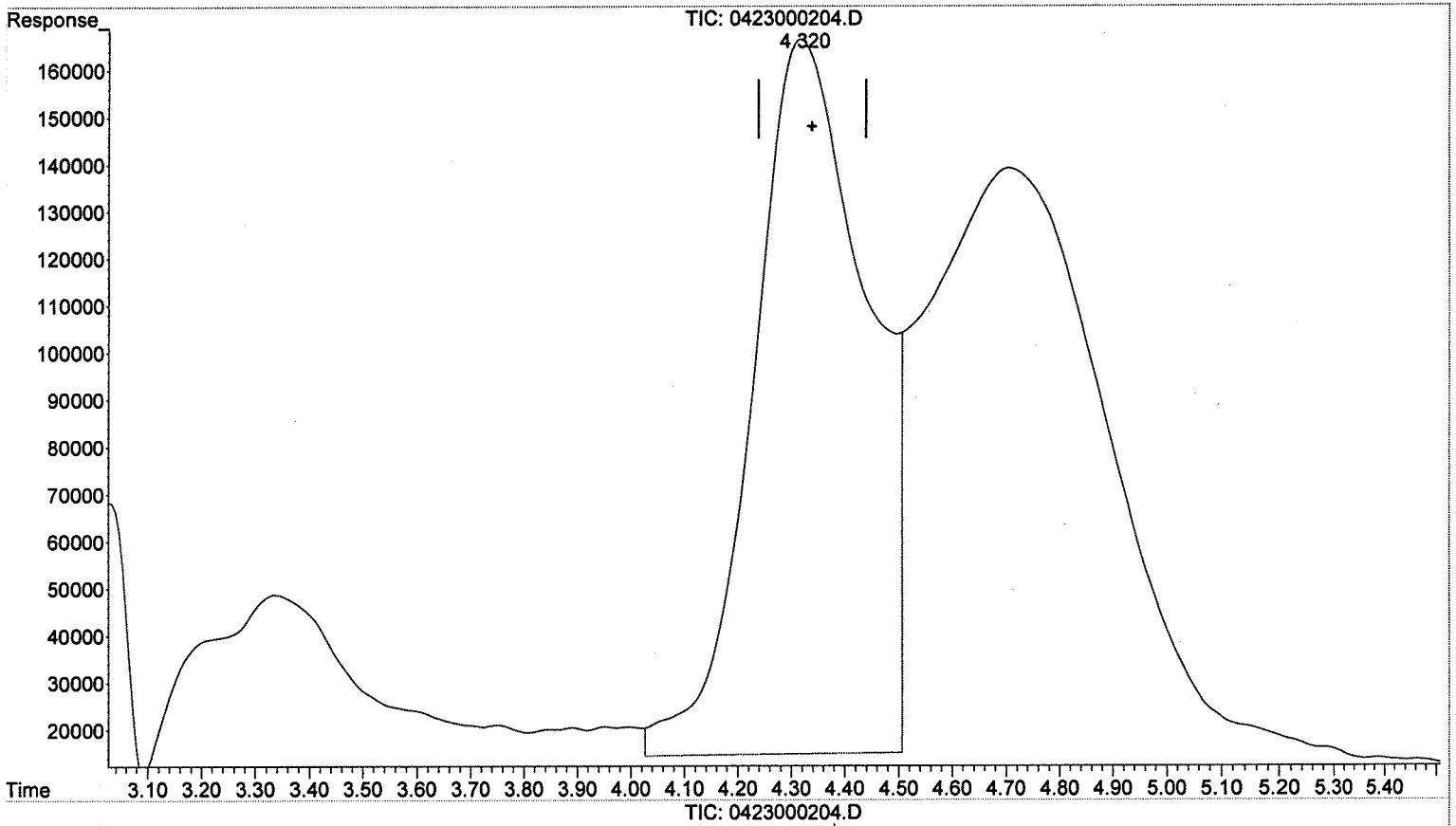
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000204.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 22:41:17  
Operator : CFS  
Sample : KWG1503332-4 MB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.320min 146.215 ug/L  
response 2254436

Manual Integration:

Before

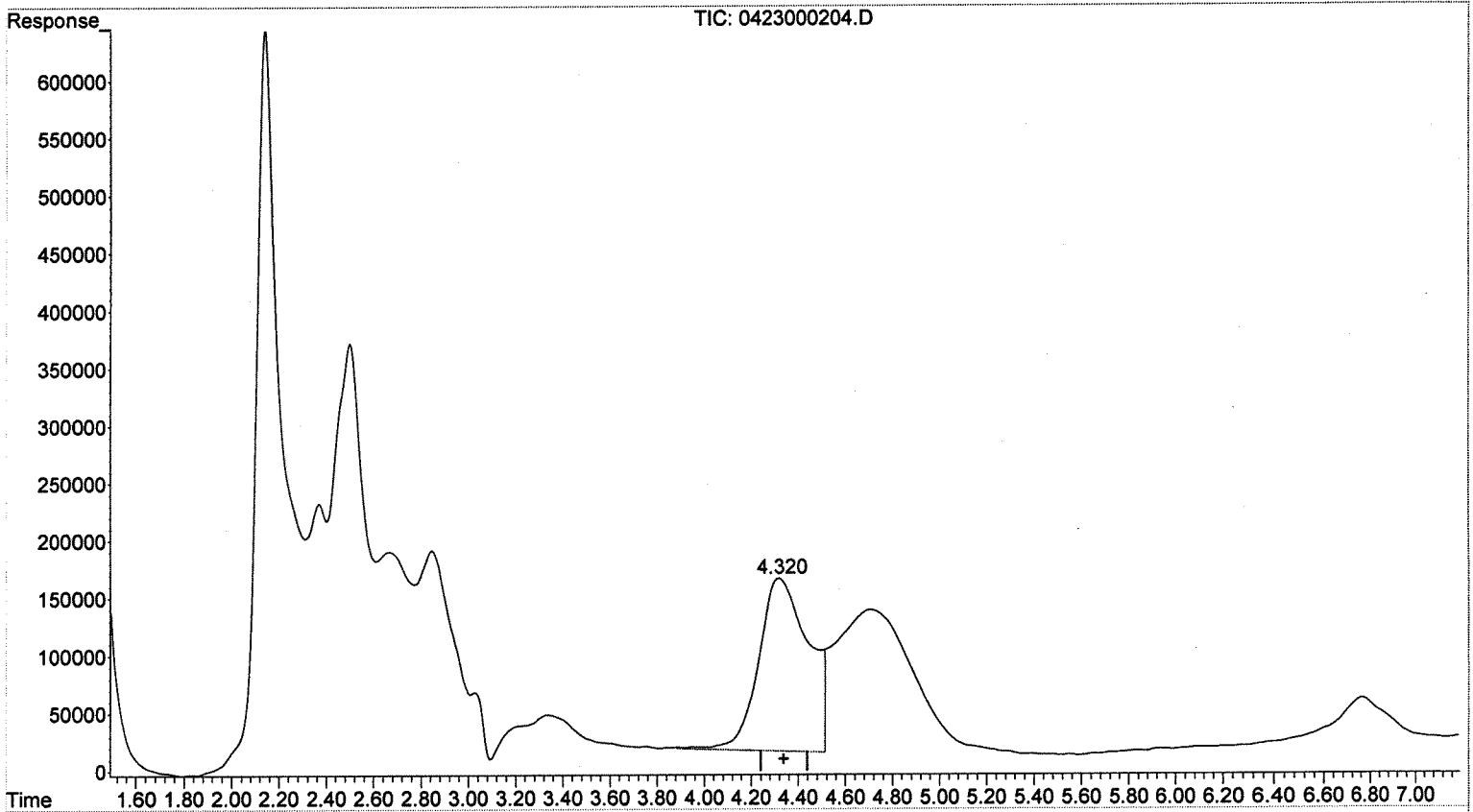
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000204.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 22:41:17  
Operator : CFS  
Sample : KWG1503332-4 MB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.320min 144.956 ug/L m  
response 2235022

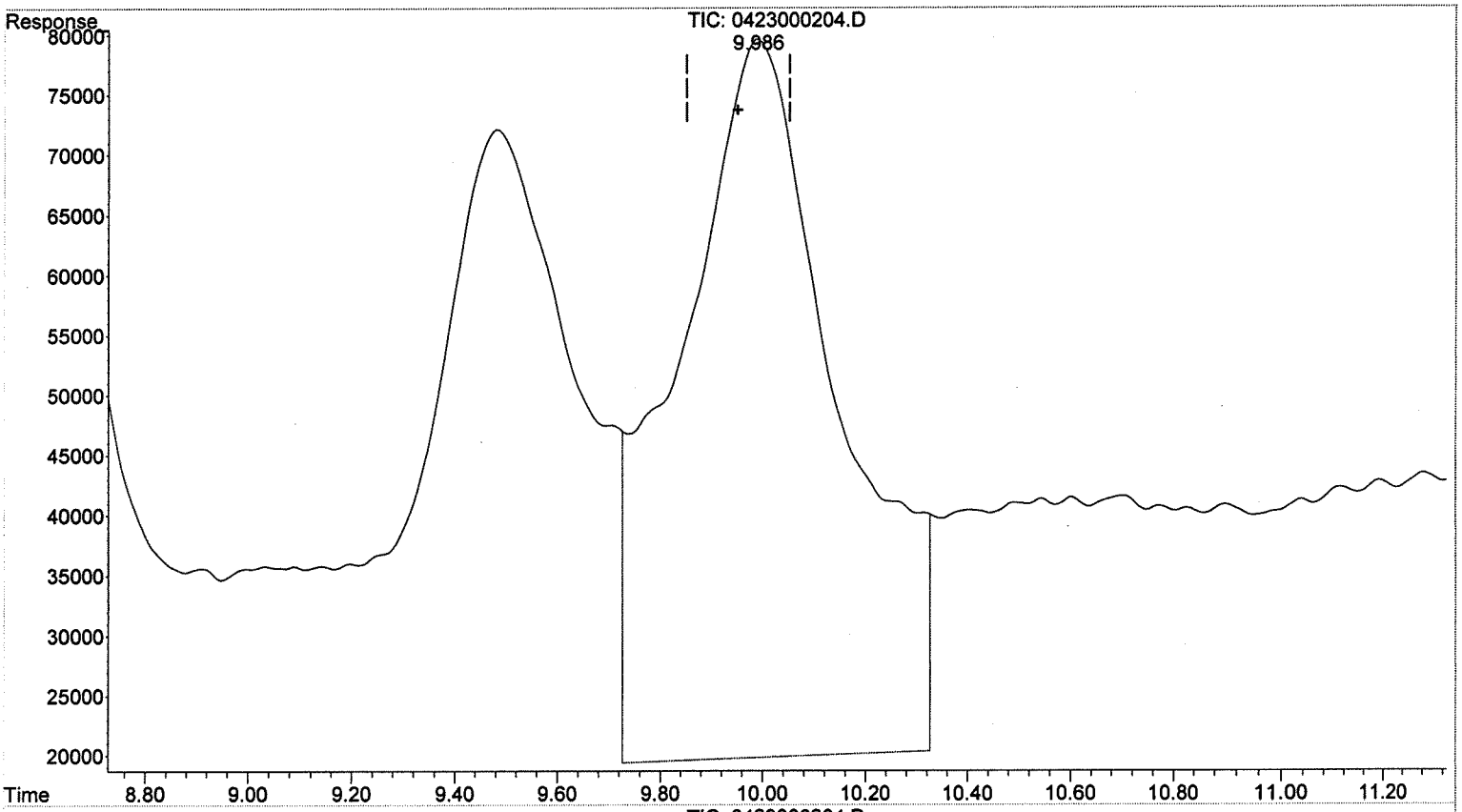
Manual Integration:  
After  
BLC  
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000204.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 22:41:17  
Operator : CFS  
Sample : KWG1503332-4 MB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 10:24:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.986min 28.617 ug/L  
response 1296086

Manual Integration:  
Before

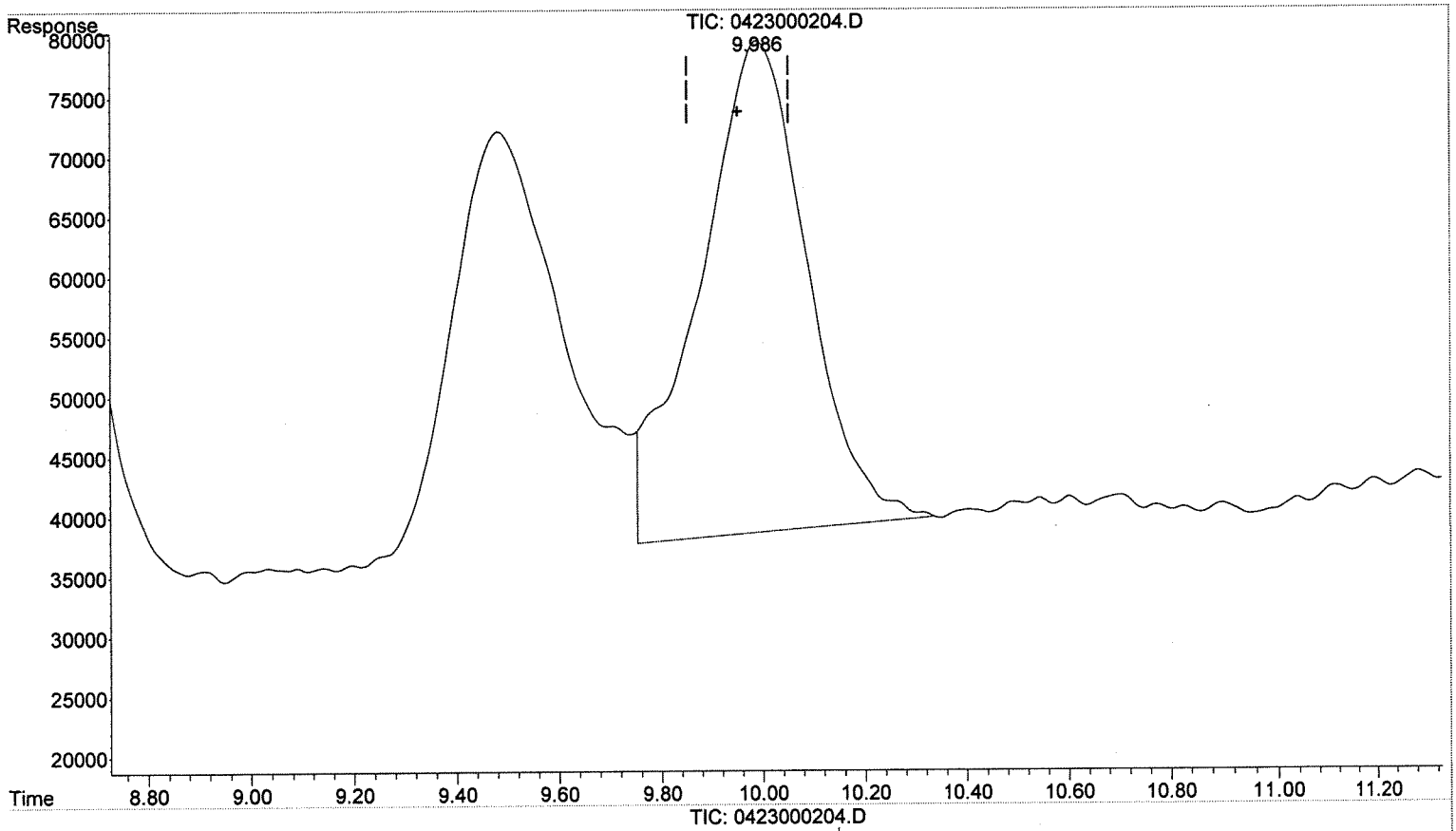
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000204.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 22:41:17  
Operator : CFS  
Sample : KWG1503332-4 MB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 10:24:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.986min 13.333 ug/L m  
response 603878

Manual Integration:

After

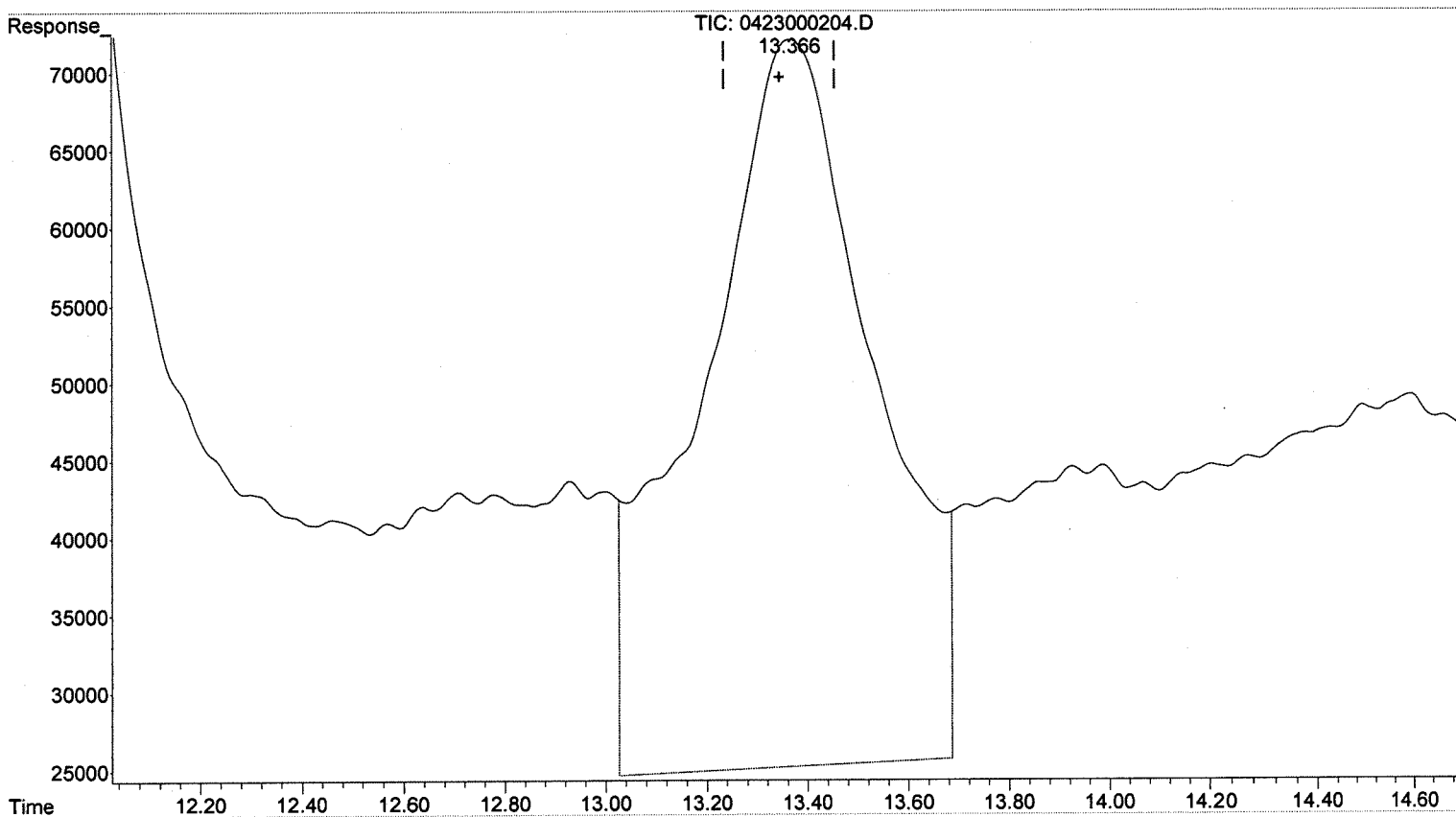
BLC

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000204.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 22:41:17  
Operator : CFS  
Sample : KWG1503332-4 MB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 10:24:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



TIC: 0423000204.D

(4) 1,3-DNB (T)  
13.366min 18.450 ug/L  
response 1128272

Manual Integration:  
Before

05/01/15

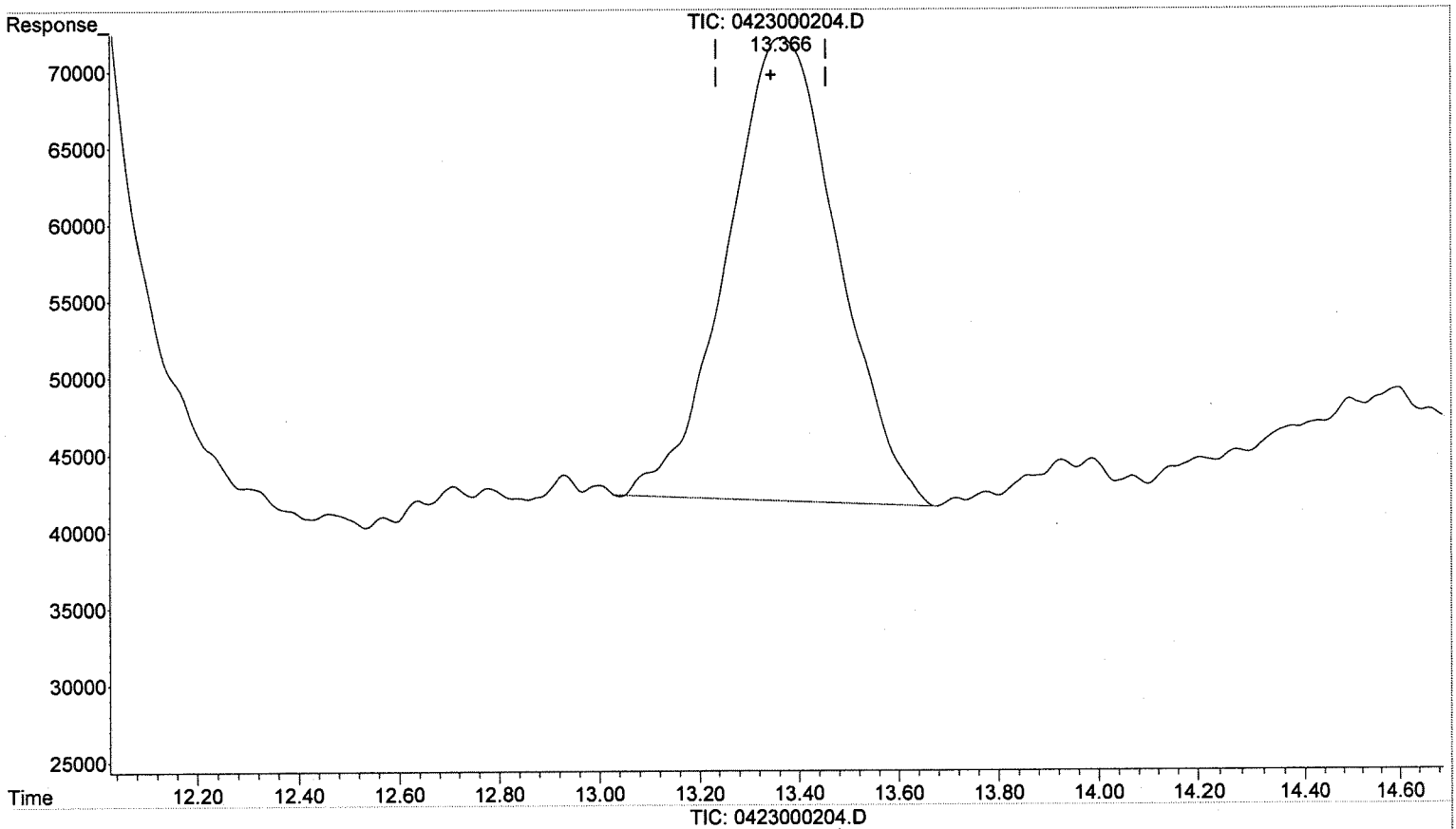


Quantitation Report (Qedit)

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000204.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 22:41:17  
Operator : CFS  
Sample : KWG1503332-4 MB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 10:24:57 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



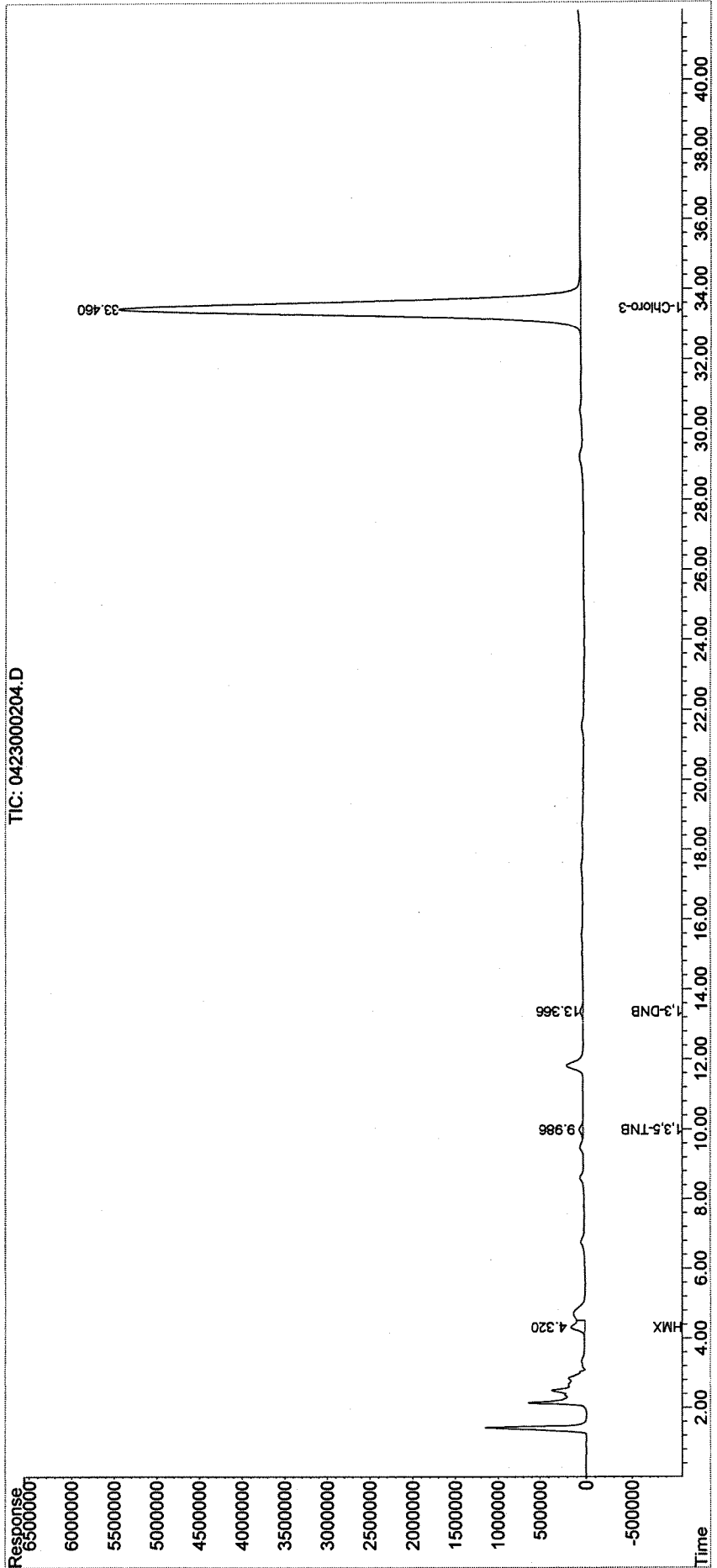
(4) 1,3-DNB (T)  
13.366min 7.605 ug/L m  
response 465099

Manual Integration:  
After  
BLC  
05/01/15 *[Signature]*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000204.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 22:41:17  
Operator : CFS  
Sample : KWGI503332-4 MB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 10:33:54 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000204.D  
**Lab ID:** KWG1503332-4  
**Run Type:** MB  
**Matrix:** WATER

**Date Acquired:** 04/23/2015 22:41  
**Date Quantitated:** 05/12/2015 09:06  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

3815

Primary Review: lee 5/12/15

Secondary Review: lee 5.12.15

# Quantitation Report

Data File:	J:\LC10\DATA\042315X\210\0423000204.D	Instrument:	LC10
Acqu Date:	04/23/2015 22:41	Quant Date:	05/12/2015 09:06
Run Type:	MB	Vial:	51
Lab ID:	KWG1503332-4	Dilution:	1.0
		Soln Conc. Units:	ug/L

Bottle ID:	Tier:	Matrix:	WATER
Prod Code:	8330B NitramAro	Collect Date:	Receive Date:
			04/20/2015

Analysis Lot:	KWG1503922	Prep Lot:	KWG1503332
Analysis Method:	8330B	Prep Method:	METHOD
Prep Ref:	1427798	Prep Date:	04/20/2015
		Report Group:	

Quant Method:	J:\LC10\METHOD\031615_8330B	Calibration ID:	CAL13892
Title:		Method ID:	MJ1278
MB Ref:		Quant based on Method	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.46	0.02	359076639	4,327	87	23-98	OK NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0		0.39	U	
Pentaerythritol Tetranitrate			0d		0.18	U	

Prep Amount: 1000 ml      Dilution: 1.0  
 Prep Final Vol: 4.0 ml      Unit Factor: 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000204.D  
 Signal(s) : DAD1B.ch  
 Acq On : 23-Apr-2015, 22:41:17  
 Operator : CFS  
 Sample : KWG1503332-4 MB  
 Misc :  
 ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:06:31 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	33.460f	359076639	4327.181	ug/L
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L d
-----				

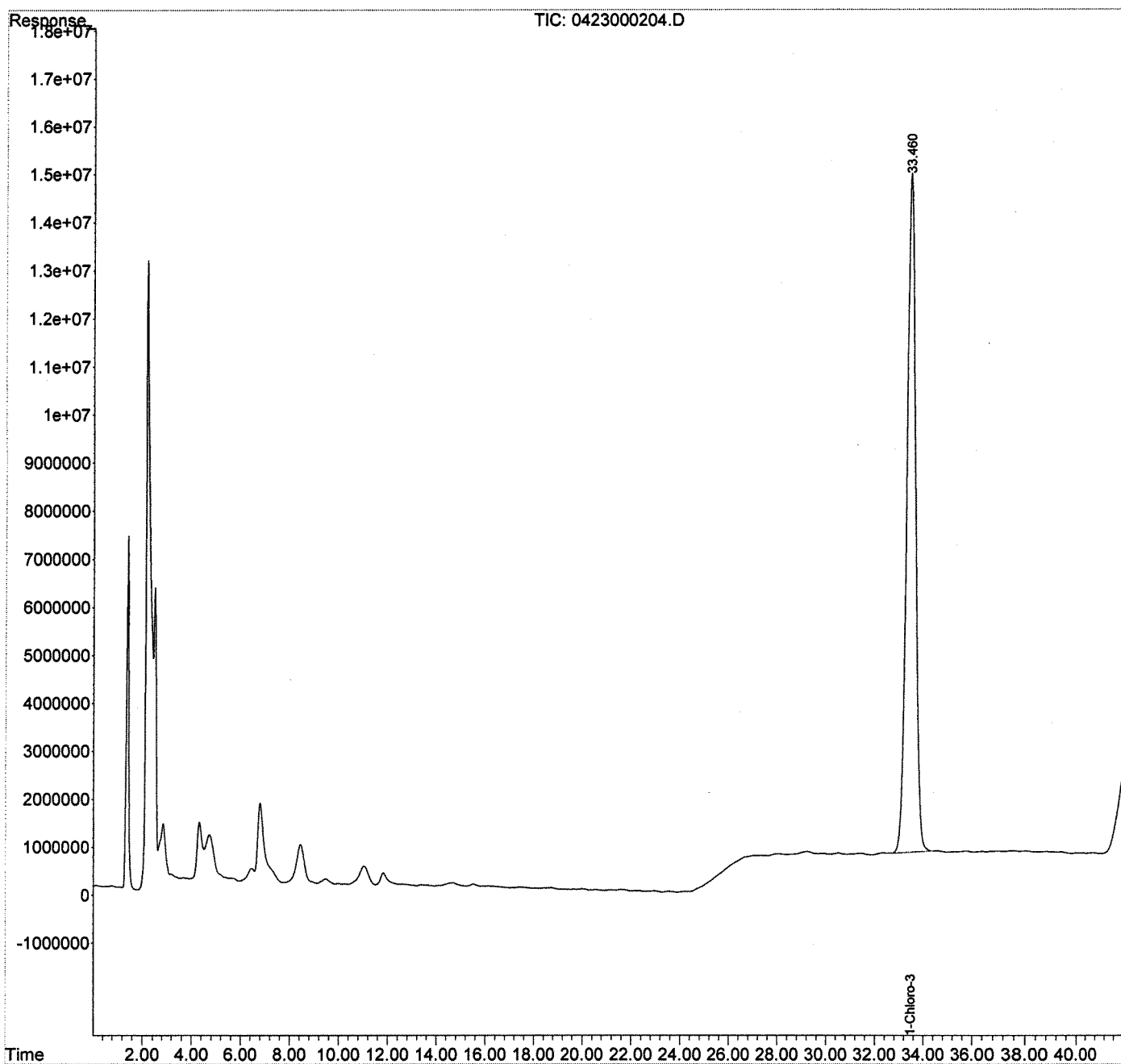
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000204.D  
 Signal(s) : DAD1B.ch  
 Acq On : 23-Apr-2015, 22:41:17  
 Operator : CFS  
 Sample : KWG1503332-4 MB  
 Misc :  
 ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:06:31 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000104.D  
 Signal(s) : DAD1A.ch  
 Acq On : 21-Apr-2015, 20:07:39  
 Operator : CFS  
 Sample : KWG1503332-4 MB  
 Misc :  
 ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 08:56:36 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
11) S 1-Chloro-3-Nitrobenzene	32.477	133569415	4843.743	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L <i>NC</i>
2) T RDX	0.000	0	N.D.	ug/L
3) T Nitrobenzene	0.000	0	N.D.	ug/L <i>NC</i>
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L <i>NC</i>
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	0.000	0	N.D.	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L
-----				

(f)=RT Delta > 1/2 Window

(m)=manual int.

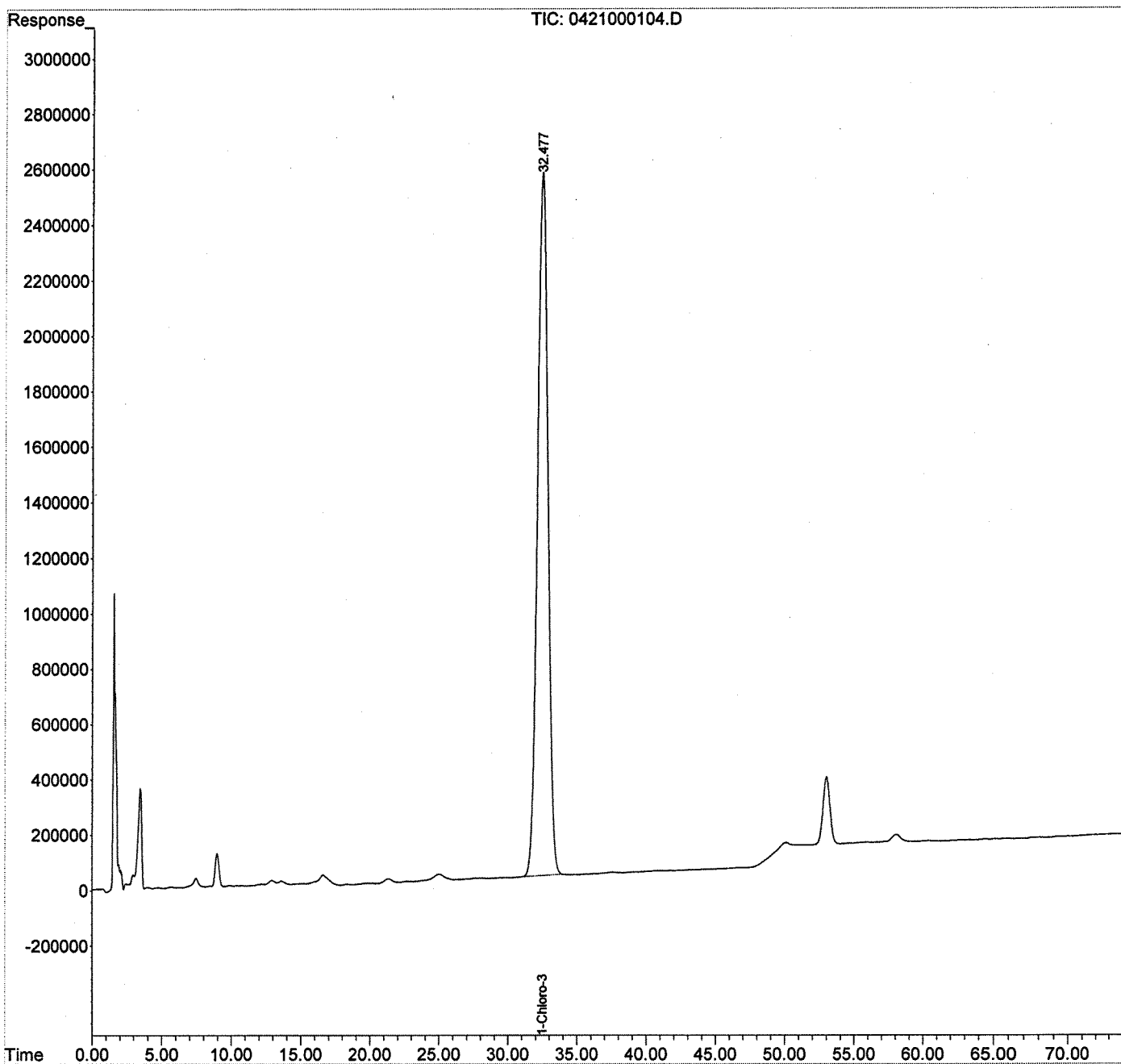
*Lo 5/5/15*

*3815*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000104.D  
Signal(s) : DAD1A.ch  
Acq On : 21-Apr-2015, 20:07:39  
Operator : CFS  
Sample : KWG1503332-4 MB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:36 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm





4	1020	198.61	0.778863
4	1020	8464.285	33.19327
4	1020	3242.099	12.71411
4	1020	36321.24	142.4362
4	1020	17.565	0.068882
4	990	3176.313	12.83359
4	990	37550.52	151.7193
4	1030	4495.806	17.45944
4	1030	35622.83	138.3411
4	1030	4568.089	17.74015
4	1030	36167.22	140.4552
4	1030	339.348	1.317856
4	1000	187.588	0.750352
4	990	4689.896	18.94907
4	1040	7149.713	27.4989
4	980	4249.984	17.34687
4	1020	217.165	0.851627
4	960	7276.56	30.319
4	960	632.087	2.633696
4	1030	382.685	1.486155
4	1030	596.059	2.314792
4	1030	11.871	0.046101
4	1030	44.107	0.171289
4	1040	33.359	0.128304
4	1040	103.894	0.399592
4	1030	17.431	0.067693
4	1030	182.312	0.708008
4	1040	17.042	0.065546
4	1040	183.781	0.70685
4	1040	6.437	0.024758
4	1040	96.597	0.371527
4	1020	28.616	0.11222
4	1020	70.178	0.275208
4	1040	160.769	0.618342
4	1040	153.16	0.589077
4	1040	135.161	0.51985
4	1040	42.045	0.161712

572.15

## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000219.D  
**Lab ID:** KWG1503332-1 -- K1503815-011MS  
**RunType:** MS  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 16:22  
**Date Quantitated:** 05/01/2015 14:12  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	TETRYL	-31.6	NA	20	<i>SP 5/15</i>

Primary Review: *SP 5/15*

Secondary Review: *SP 5/15*

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000219.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 16:22	<b>Quant Date:</b> 05/01/2015 14:12
<b>Run Type:</b> MS	<b>Vial:</b> 64
<b>Lab ID:</b> KWG1503332-1 -- K1503815-011MS	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 04	<b>Tier:</b>	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b>	<b>Receive Date:</b> 04/20/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427795	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.21	-0.11 ✓	133588026	4,348	87	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
				Final Conc. Units: ug/L			
HMX	4.32	-0.01	30026411m	1,947	7.49		
RDX	7.13	-0.01	39185527m	1,946	7.49		
1,3,5-Trinitrobenzene	9.92	-0.01	44524580	983.08	3.78		
1,3-Dinitrobenzene	13.27	-0.04	112574547	1,841	7.08		
3,5-Dinitroaniline	13.91	-0.09	90123931	1,858	7.15		
TETRYL	14.62	-0.09	31311417	888.45	3.42	NA	
Nitrobenzene	15.68	-0.05	66546321	1,717	6.60		
2,4,6-Trinitrotoluene	17.22	-0.07	75943803	1,804	6.94		
4-Amino-2,6-dinitrotoluene	18.12	-0.15 ✓	55894272	1,794	6.90		
2-Amino-4,6-dinitrotoluene	19.08	-0.16 ✓	79305211	1,904	7.32		
2,6-Dinitrotoluene	21.59	-0.14 ✓	52607267	1,854	7.13		
2,4-Dinitrotoluene	22.17	-0.14 ✓	98968636	1,755	6.75		
2-Nitrotoluene	26.59	-0.09	42424871	1,675	6.44		
4-Nitrotoluene	27.93	-0.10	35647850	1,669	6.42		
3-Nitrotoluene	29.61	-0.10	47354484	1,665	6.40		

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000219.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 16:22:54  
 Operator : CFS  
 Sample : K1503815-011 MS  
 Misc :  
 ALS Vial : 64 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:12:37 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.213	133588026	4347.510	ug/L
Target Compounds				
1) T HMX	4.320	30026411	1947.414	ug/L m
2) T RDX	7.133	39185527	1946.446	ug/L m
3) T 1,3,5-TNB	9.920	44524580	983.079	ug/L
4) T 1,3-DNB	13.266	112574547	1840.823	ug/L
5) T 3,5-Dinitroaniline	13.906f	90123931	1858.191	ug/L
6) T Tetryl	14.620f	31311417	888.447	ug/L
7) T Nitrobenzene	15.680	66546321	1717.249	ug/L
8) T 2,4,6-TNT	17.220	75943803	1804.332	ug/L
9) T 4-Amino-2,6-DNT	18.120f	55894272	1794.020	ug/L
10) T 2-Amino-4,6-DNT	19.080f	79305211	1904.435	ug/L
11) T 2,6-DNT	21.593	52607267	1854.054	ug/L
12) T 2,4-DNT	22.166f	98968636	1755.406	ug/L
13) T 2-NT	26.586	42424871	1675.427	ug/L
14) T 4-NT	27.933	35647850	1669.431	ug/L
15) T 3-NT	29.613	47354484	1664.562	ug/L
-----				

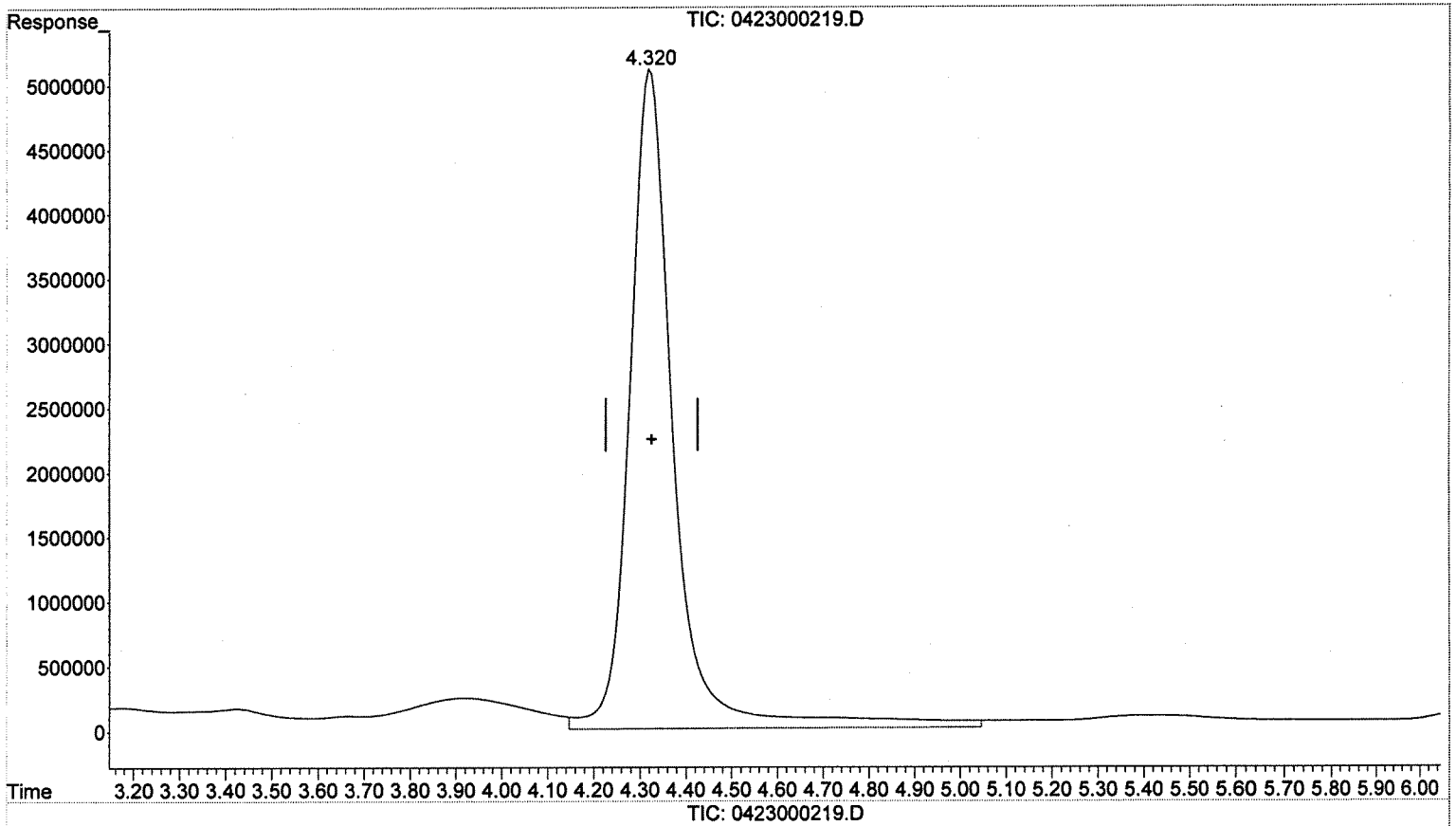
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000219.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 16:22:54  
Operator : CFS  
Sample : K1503815-011 MS  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:43:00 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.320min 2218.373 ug/L  
response 34204215

Manual Integration:  
Before

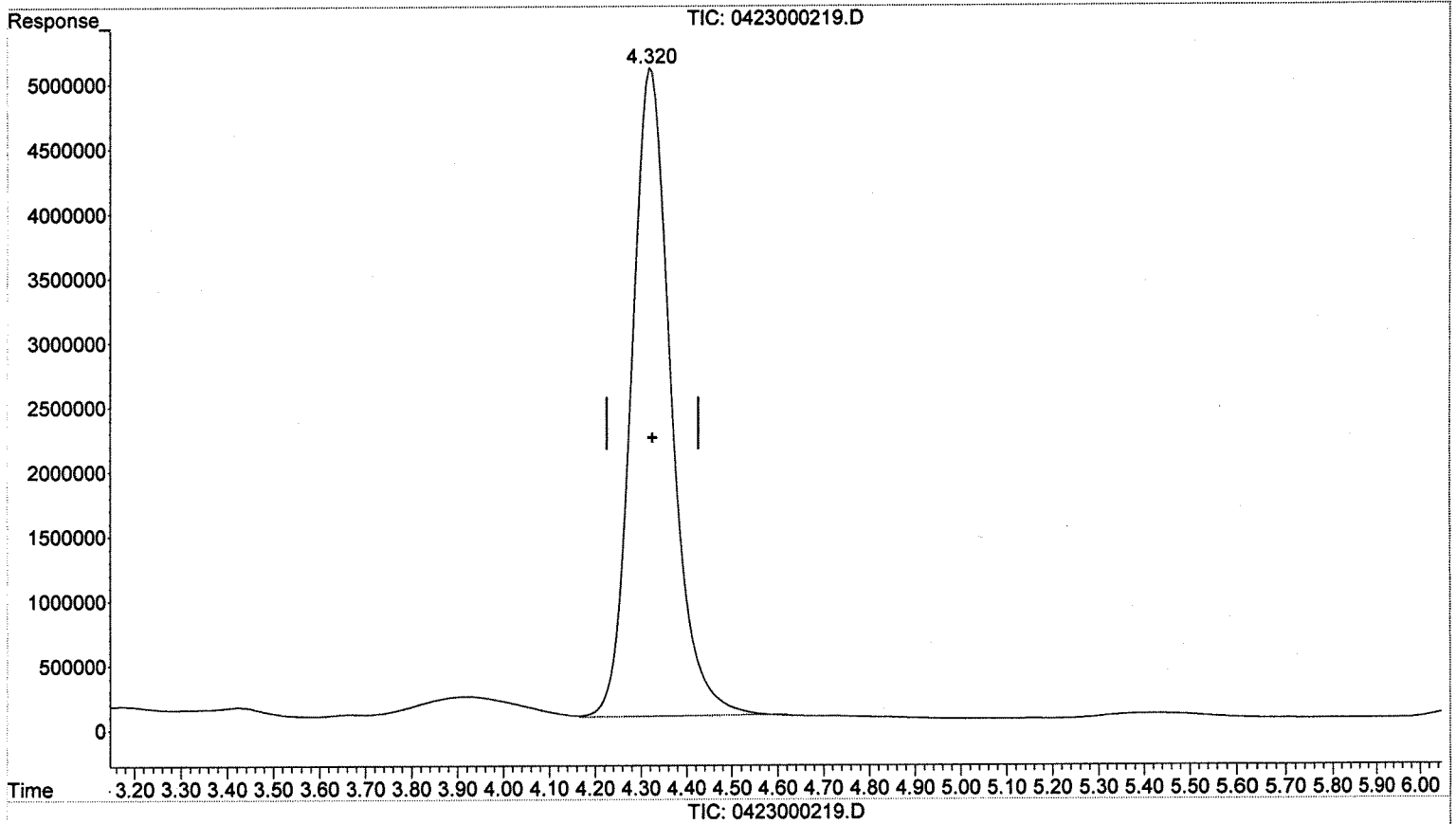
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000219.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 16:22:54  
Operator : CFS  
Sample : K1503815-011 MS  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:43:00 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.320min 1947.414 ug/L m  
response 30026411

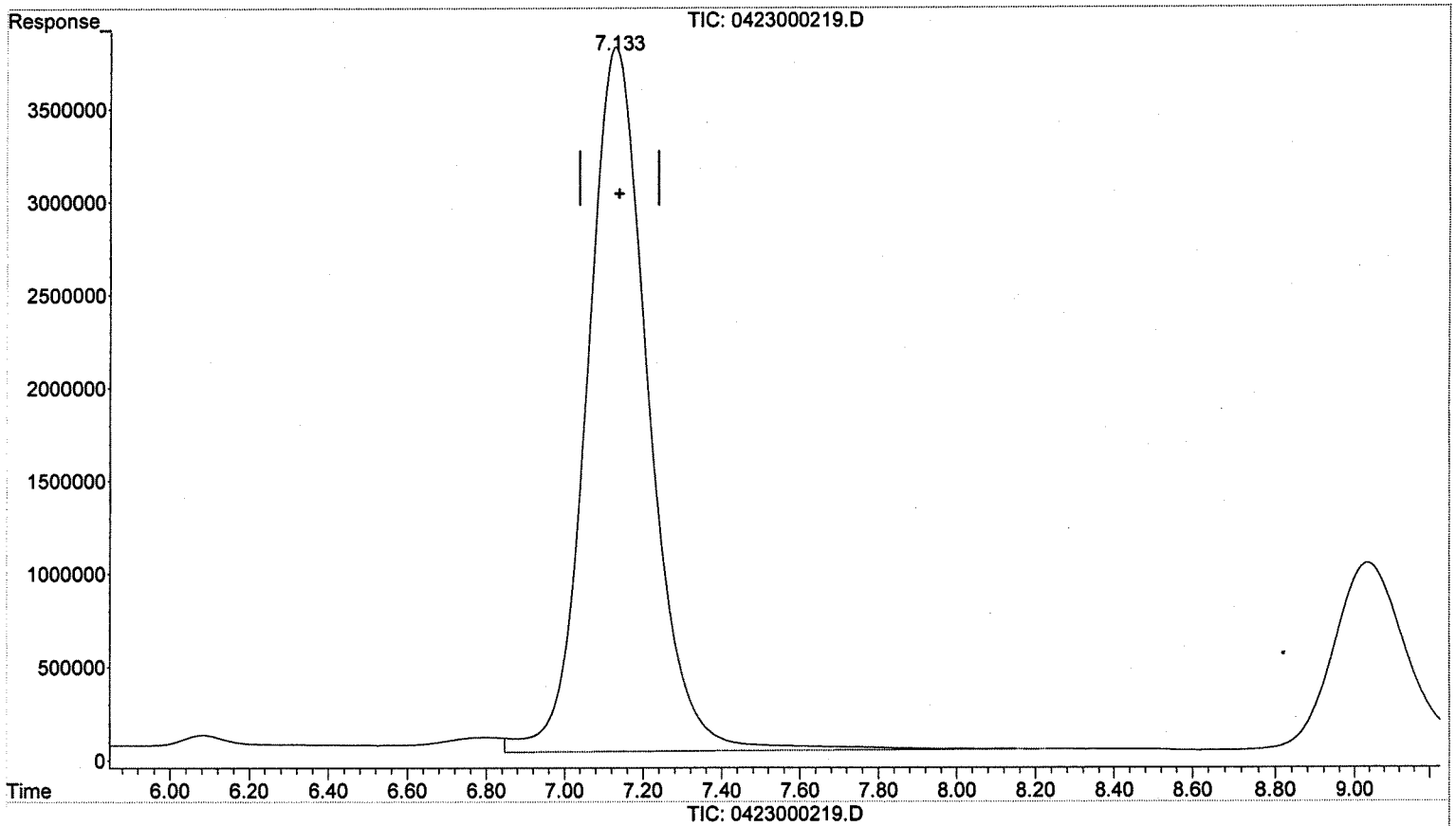
Manual Integration:  
After  
BLC  
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000219.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 16:22:54  
Operator : CFS  
Sample : K1503815-011 MS  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:43:00 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.133min 2041.887 ug/L  
response 41107113

Manual Integration:  
Before

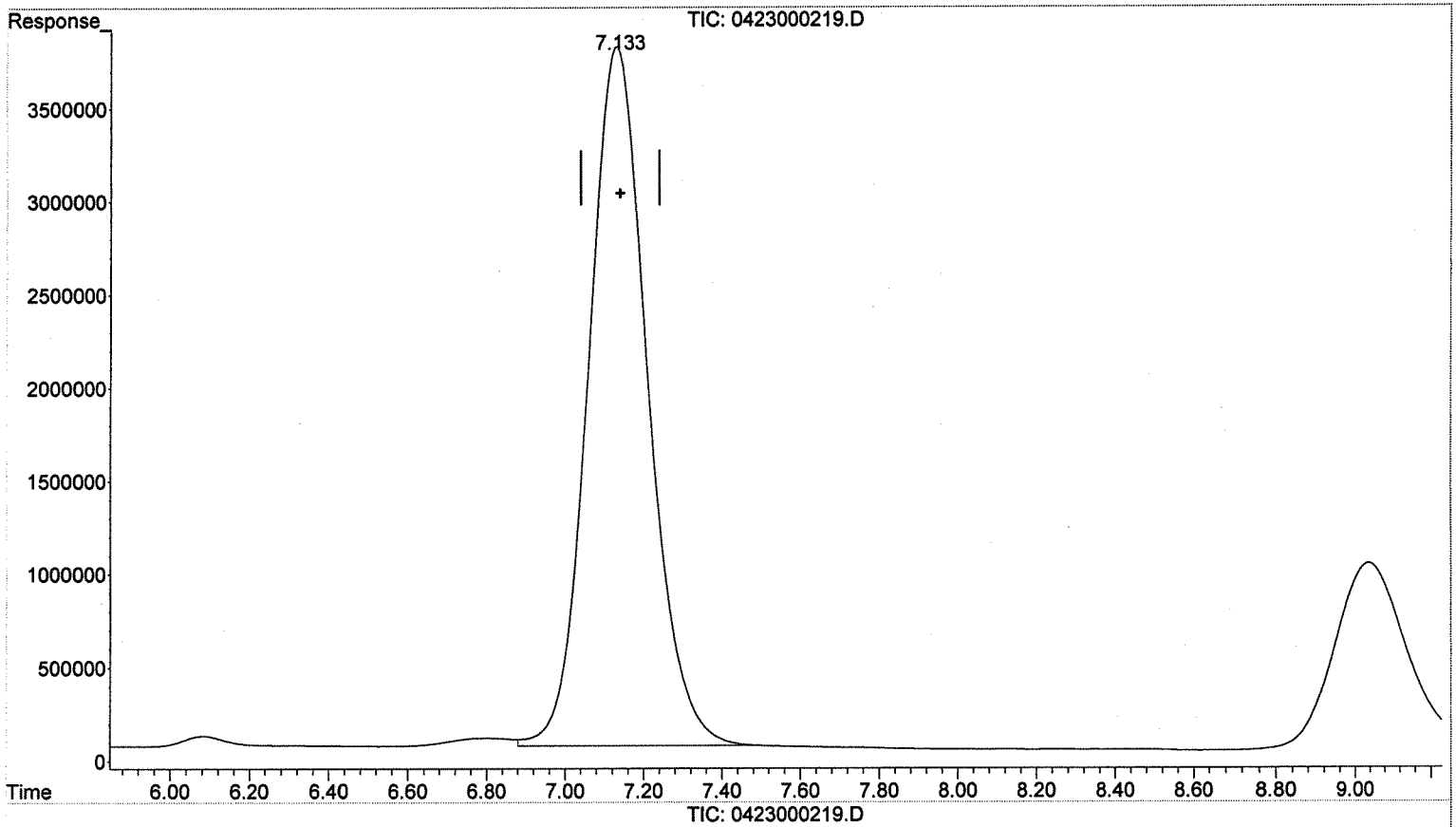
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000219.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 16:22:54  
Operator : CFS  
Sample : K1503815-011 MS  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:43:00 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.133min 1946.446 ug/L m  
response 39185527

Manual Integration:

After

BLC

05/01/15

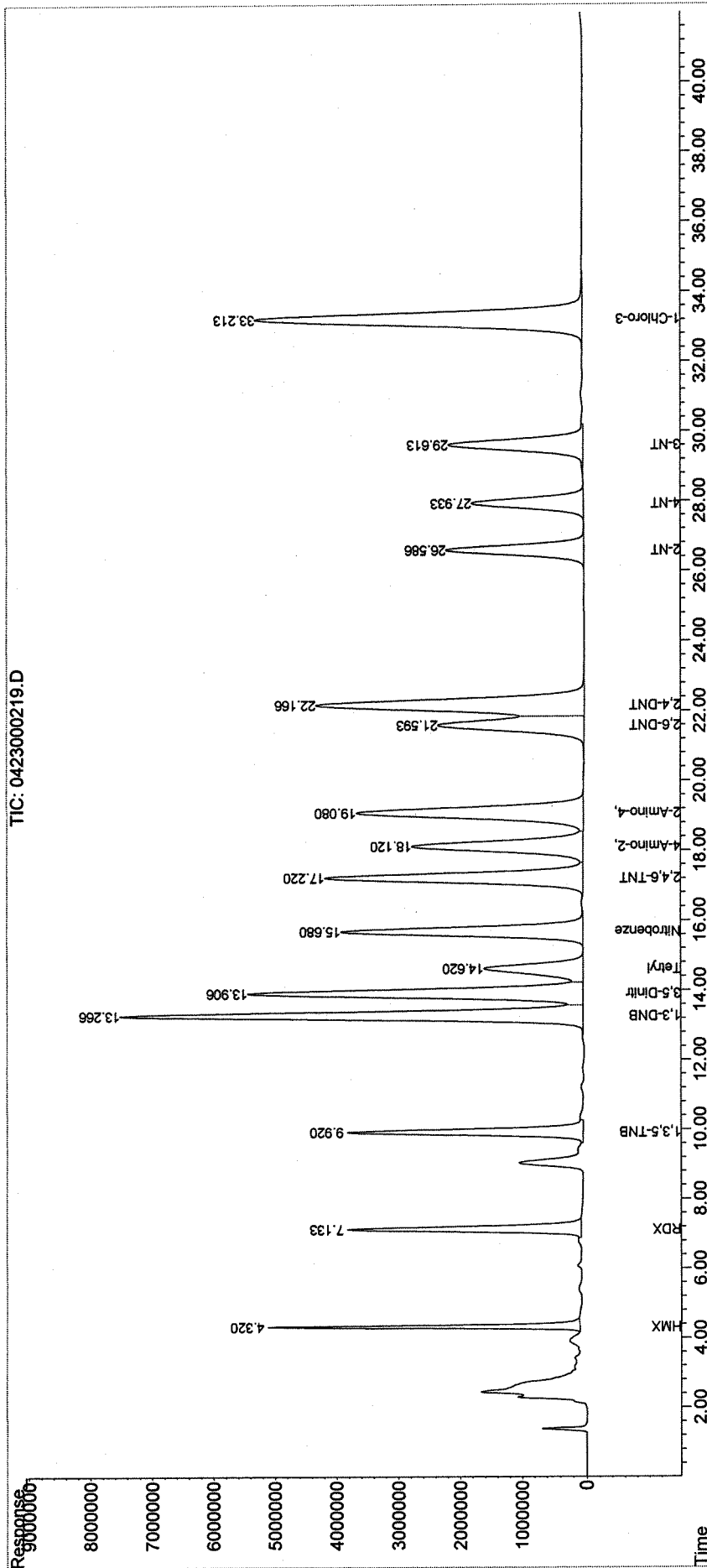
(+) = Expected Retention Time



Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000219.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 16:22:54  
 Operator : CFS  
 Sample : K1503815-011 MS  
 Misc :  
 ALS Vial : 64 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:12:37 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CALL3891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000219.D  
**Lab ID:** KWG1503332-1 -- K1503815-011MS  
**RunType:** MS  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 16:22  
**Date Quantitated:** 05/12/2015 09:05  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: lu 5/12/15

Secondary Review: AS 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000219.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 16:22	<b>Quant Date:</b> 05/12/2015 09:05
<b>Run Type:</b> MS	<b>Vial:</b> 64
<b>Lab ID:</b> KWG1503332-1 -- K1503815-011MS	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 04	<b>Tier:</b>	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b>	<b>Receive Date:</b> 04/20/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427795	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b>	
<b>MB Ref:</b> J:\LC10\DATA\042315X\210\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.21	-0.11	346595774	4,177	84	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	15.68	-0.05	70821554	1,710	6.58		
Pentaerythritol Tetranitrate	29.61	-0.10	102848800	1,757	6.76		

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

# Matrix Spike Summary Report

## Matrix Spike Information

ListJoinID : LJ13249

Data File: J:\LC10\DATA\042315X\254\0423000219.D	Instrument: LC10
Lab ID: KWG1503332-1	Dilution: 1.00
Client ID: Matrix Spike	Units: ug/L
Prod Code: 8330B NitramAro	Acqu Date: 04/24/2015 16:22
Matrix: WATER	Quant Date: 05/01/2015 14:12

## Duplicate Matrix Spike Information

Data File: J:\LC10\DATA\042315X\254\0423000220.D	Instrument: LC10
Lab ID: KWG1503332-2	Dilution: 1.00
Client ID: Duplicate Matrix Spike	Units: ug/L
Prod Code: 8330B NitramAro	Acqu Date: 04/24/2015 17:33
Matrix: WATER	Quant Date: 05/01/2015 14:13

## Sample Reference Information

Data File: J:\LC10\DATA\042315X\254\0423000218.D	Instrument: LC10
Lab ID: K1503815-011	Dilution: 1.00
Client ID: AIA150414FHDS	Units: ug/L
Prod Code: 8330B NitramAro	Acqu Date: 04/24/2015 15:12
Matrix: WATER	Quant Date: 05/01/2015 14:12

Parameter Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
HMX	ND	7.49	7.69	97	7.45	7.69	97	11-147	1	20
RDX	0.078	7.49	7.69	96	7.71	7.69	99	10-142	3	20
1,3,5-Trinitrobenzene	ND	3.78	7.69	49	5.12	7.69	67	16-137	30	* (A) 20
1,3-Dinitrobenzene	ND	7.08	7.69	92	7.27	7.69	94	26-125	3	20
3,5-Dinitroaniline	ND	7.15	7.69	93	7.26	7.69	94	30-133	2	20
TETRYL	ND	3.42	7.69	44	4.93	7.69	64	29-123	36	* (A) 20
Nitrobenzene	ND	6.60	7.69	86	6.98	7.69	91	10-116	5	20
4-Amino-2,6-dinitrotoluene	ND	6.90	7.69	90	7.09	7.69	92	55-117	3	20
2-Amino-4,6-dinitrotoluene	ND	7.32	7.69	95	7.38	7.69	96	54-116	1	20
2,4,6-Trinitrotoluene	ND	6.94	7.69	90	7.17	7.69	93	47-118	3	20
2,6-Dinitrotoluene	ND	7.13	7.69	93	7.41	7.69	96	40-108	4	20
2,4-Dinitrotoluene	ND	6.75	7.69	88	6.82	7.69	89	50-111	1	20
2-Nitrotoluene	ND	6.44	7.69	84	6.69	7.69	87	12-110	4	20
4-Nitrotoluene	ND	6.42	7.69	83	6.69	7.69	87	16-113	4	20
3-Nitrotoluene	ND	6.40	7.69	83	6.65	7.69	86	13-109	4	20
Nitroglycerin	ND	6.58	7.69	85	6.75	7.69	88	15-136	3	20
Pentaerythritol Tetranitrate	ND	6.76	7.69	88	6.95	7.69	90	66-103	3	20
1-Chloro-3-nitrobenzene				87			90	23-98		

(A) Possible non-homogeneous matrix.  
*See 5/12/15*

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000219.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 16:22:54  
 Operator : CFS  
 Sample : K1503815-011 MS  
 Misc :  
 ALS Vial : 64 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:05:44 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.213	346595774	4176.776 ug/L
Target Compounds			
1) T Nitroglycerin	15.680	70821554	1709.628 ug/L
2) T PETN	29.613	102848800	1757.365 ug/L
-----			

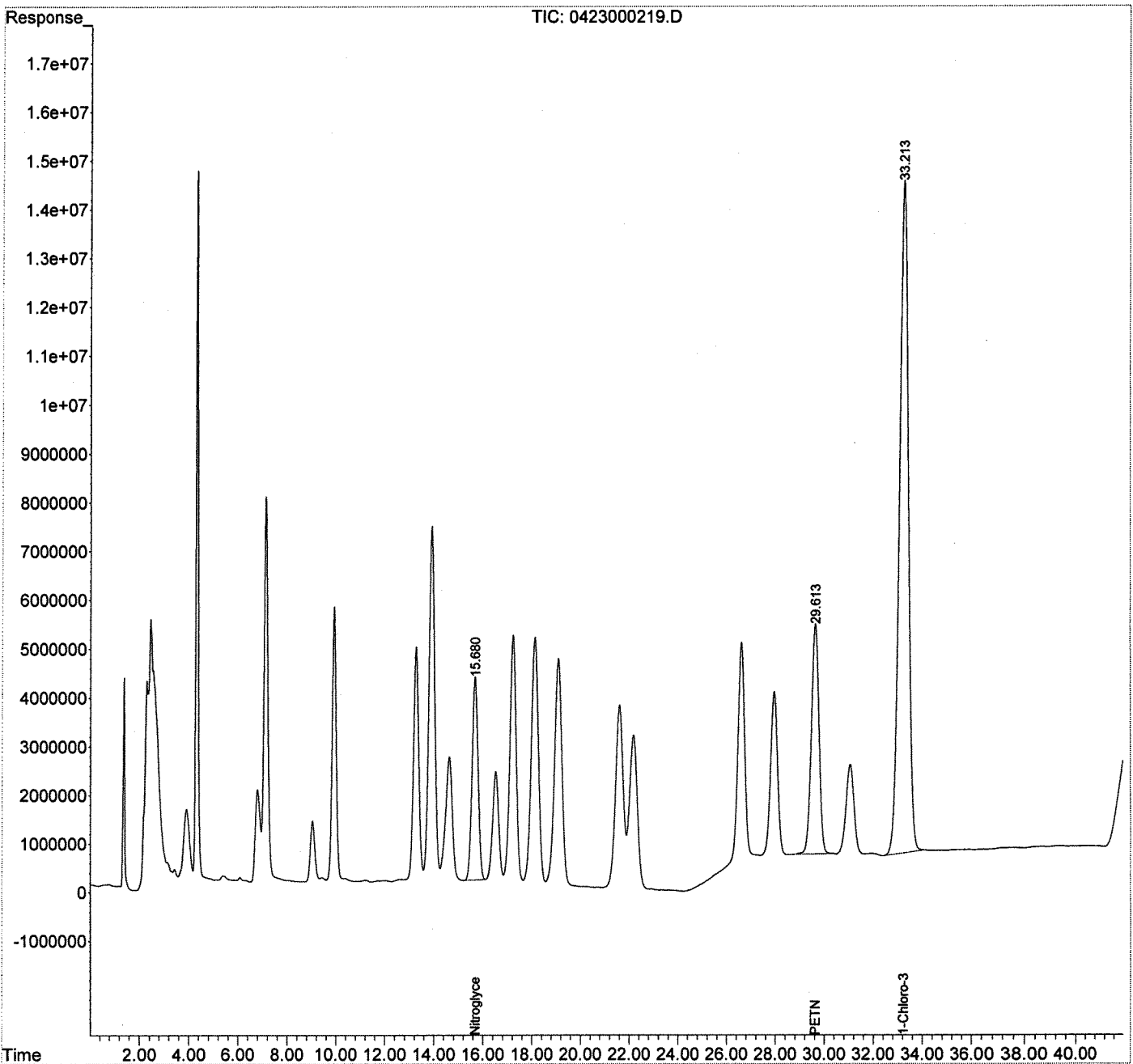
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000219.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 16:22:54  
Operator : CFS  
Sample : K1503815-011 MS  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:05:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000164.D  
**Lab ID:** KWG1503332-1 -- K1503815-011MS ✓  
**RunType:** MS  
**Matrix:** WATER

**Date Acquired:** 05/06/2015 06:26  
**Date Quantitated:** 05/12/2015 16:04  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: See 5/13/15

Secondary Review: QA 5/18/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000164.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 05/06/2015 06:26	<b>Quant Date:</b> 05/12/2015 16:04
<b>Run Type:</b> MS	<b>Vial:</b> 11
<b>Lab ID:</b> KWG1503332-1 -- K1503815-011MS	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 04	<b>Tier:</b>	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b>	<b>Receive Date:</b> 04/20/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427795	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.51	0.03	134864677	4,389	88	23-98 OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units:		Q	Rpt?
				Solution Conc	ug/L		
HMX	4.36	0.01	34566669m	2,242	8.62		NR
RDX	7.20	0.02	41148532m	2,044	7.86		NR
1,3,5-Trinitrobenzene	9.98	0.01	17569323m	387.92	1.49		NR
1,3-Dinitrobenzene	13.40		117305168	1,918	7.38		NR
3,5-Dinitroaniline	14.14		91556949	1,888	7.26		NR
TETRYL	14.74	-0.04	22997214	652.54	2.51		
Nitrobenzene	15.81	-0.01	67415010	1,740	6.69		NR
2,4,6-Trinitrotoluene	17.34	-0.02	76462102	1,817	6.99		NR
4-Amino-2,6-dinitrotoluene	18.42	-0.02	56289314	1,807	6.95		NR
2-Amino-4,6-dinitrotoluene	19.42	-0.03	82196958	1,974	7.59		NR
2,6-Dinitrotoluene	21.85	-0.02	55134924	1,943	7.47		NR
2,4-Dinitrotoluene	22.46	-0.02	99088237	1,758	6.76		NR
2-Nitrotoluene	26.80		43518624	1,719	6.61		NR
4-Nitrotoluene	28.18	0.02	36897344	1,728	6.65		NR
3-Nitrotoluene	29.87	0.02	48345960	1,699	6.54		NR

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor**

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution



Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000164.D  
 Signal(s) : DAD1A.ch  
 Acq On : 06-May-2015, 06:26:56  
 Operator : CFS  
 Sample : K1503815-011 MS 5/5  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 16:04:49 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:25:44 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.510	134864677	4389.058 ug/L
Target Compounds			
1) T HMX	4.364	34566669	2241.880 ug/L m
2) T RDX	7.204	41148532	2043.944 ug/L m
3) T 1,3,5-TNB	9.984	17569323	387.921 ug/L m
4) T 1,3-DNB	13.397	117305168	1918.178 ug/L
5) T 3,5-Dinitroaniline	14.144	91556949	1887.737 ug/L
6) T Tetryl	14.744	22997214	652.536 ug/L
7) T Nitrobenzene	15.810	67415010	1739.666 ug/L
8) T 2,4,6-TNT	17.337	76462102	1816.646 ug/L
9) T 4-Amino-2,6-DNT	18.424	56289314	1806.700 ug/L
10) T 2-Amino-4,6-DNT	19.424	82196958	1973.878 ug/L
11) T 2,6-DNT	21.850	55134924	1943.137 ug/L
12) T 2,4-DNT	22.464	99088237	1757.527 ug/L
13) T 2-NT	26.804	43518624	1718.621 ug/L
14) T 4-NT	28.177	36897344	1727.946 ug/L
15) T 3-NT	29.870	48345960	1699.413 ug/L
-----			

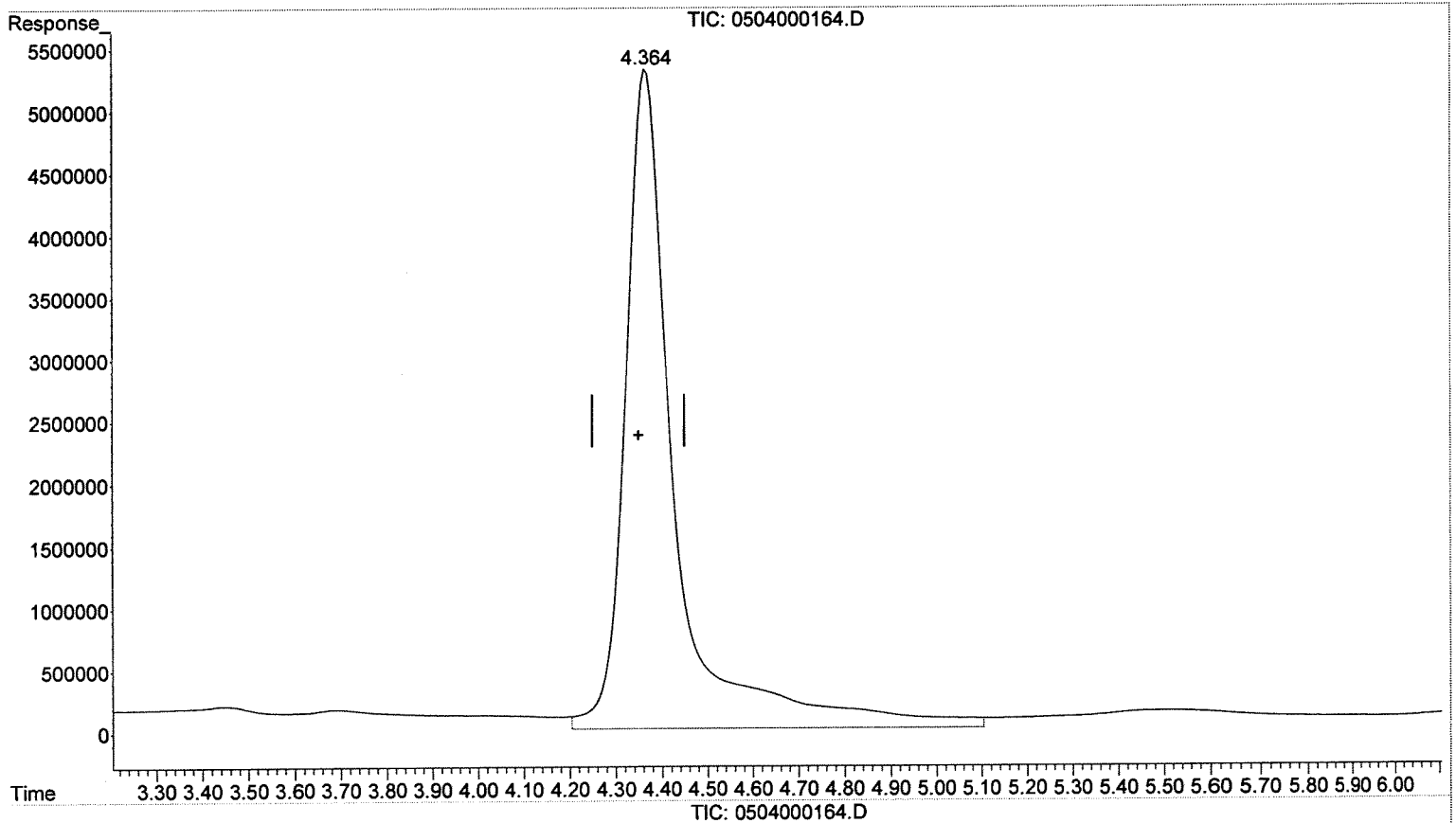
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000164.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 06:26:56  
Operator : CFS  
Sample : K1503815-011 MS 5/5  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:24 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.364min 2602.366 ug/L  
response 40124850

Manual Integration:  
Before

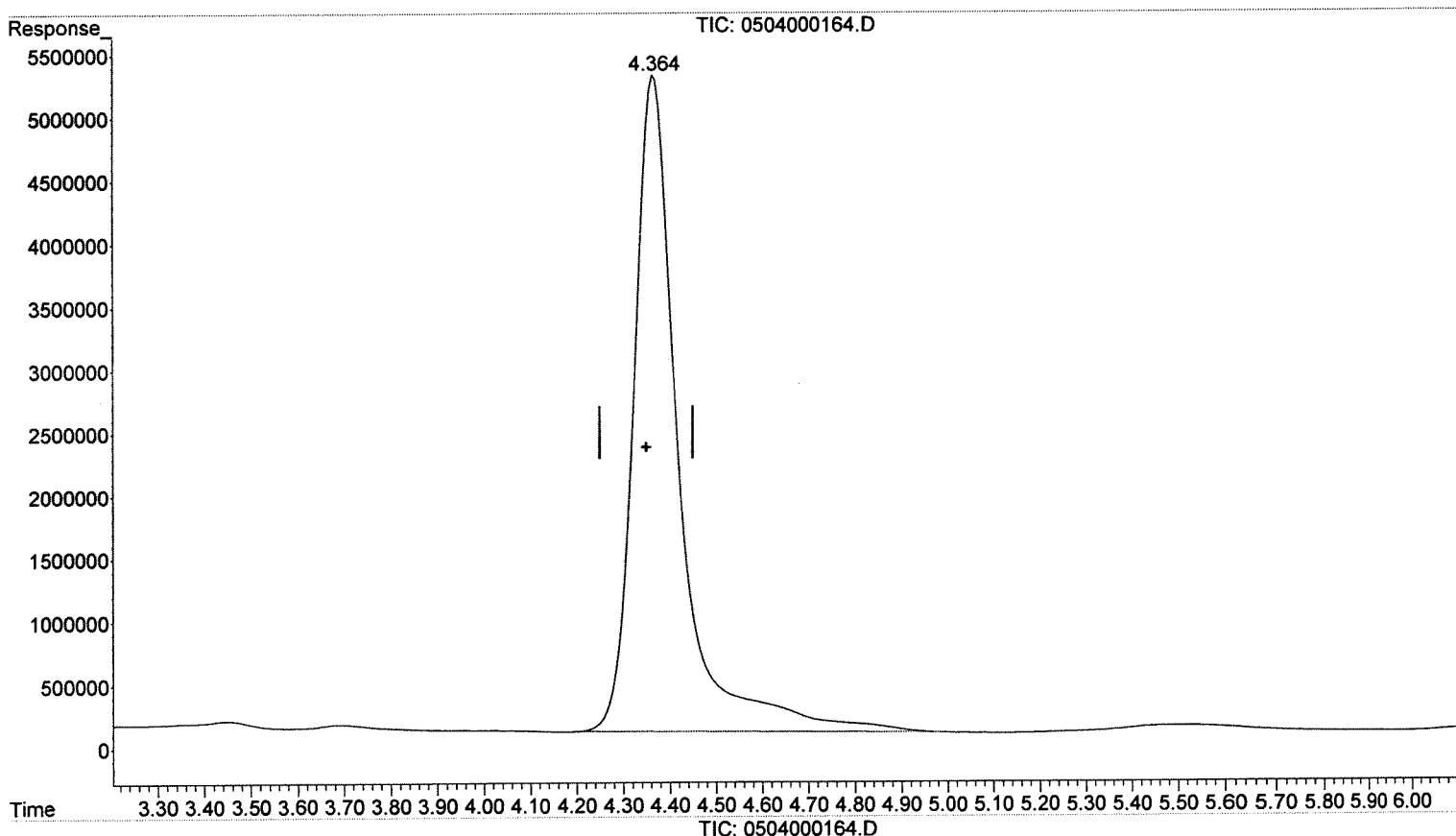
05/12/15

*Handwritten:* 5.18.15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000164.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 06:26:56  
Operator : CFS  
Sample : K1503815-011 MS 5/5  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:24 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



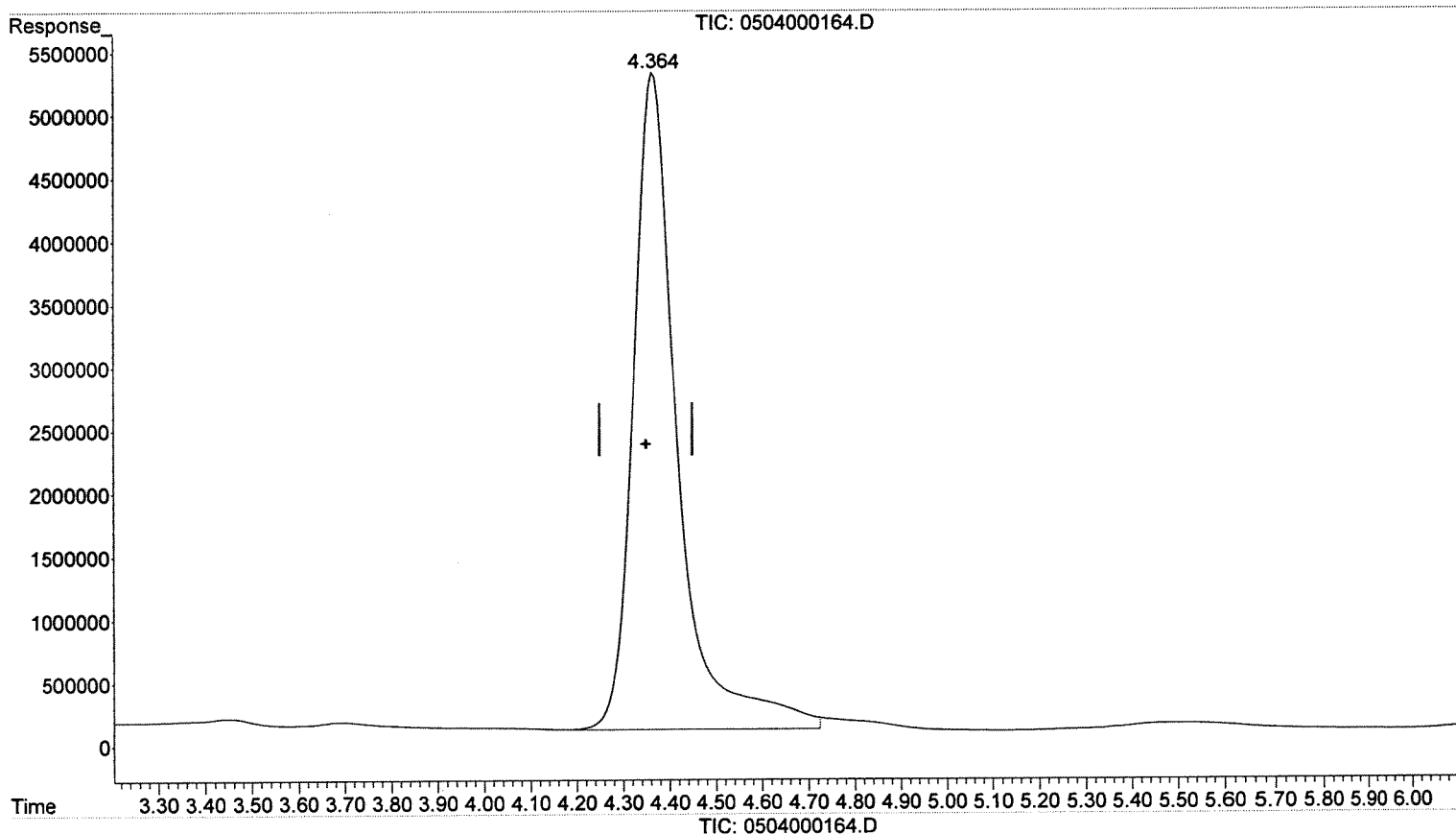
(1) HMX (T)  
4.364min 2279.664 ug/L m  
response 35149236

Manual Integration:  
After  
BLC  
05/12/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000164.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 06:26:56  
Operator : CFS  
Sample : K1503815-011 MS 5/5  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:24 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.364min 2241.880 ug/L m  
response 34566669

Manual Integration:

After

BLC

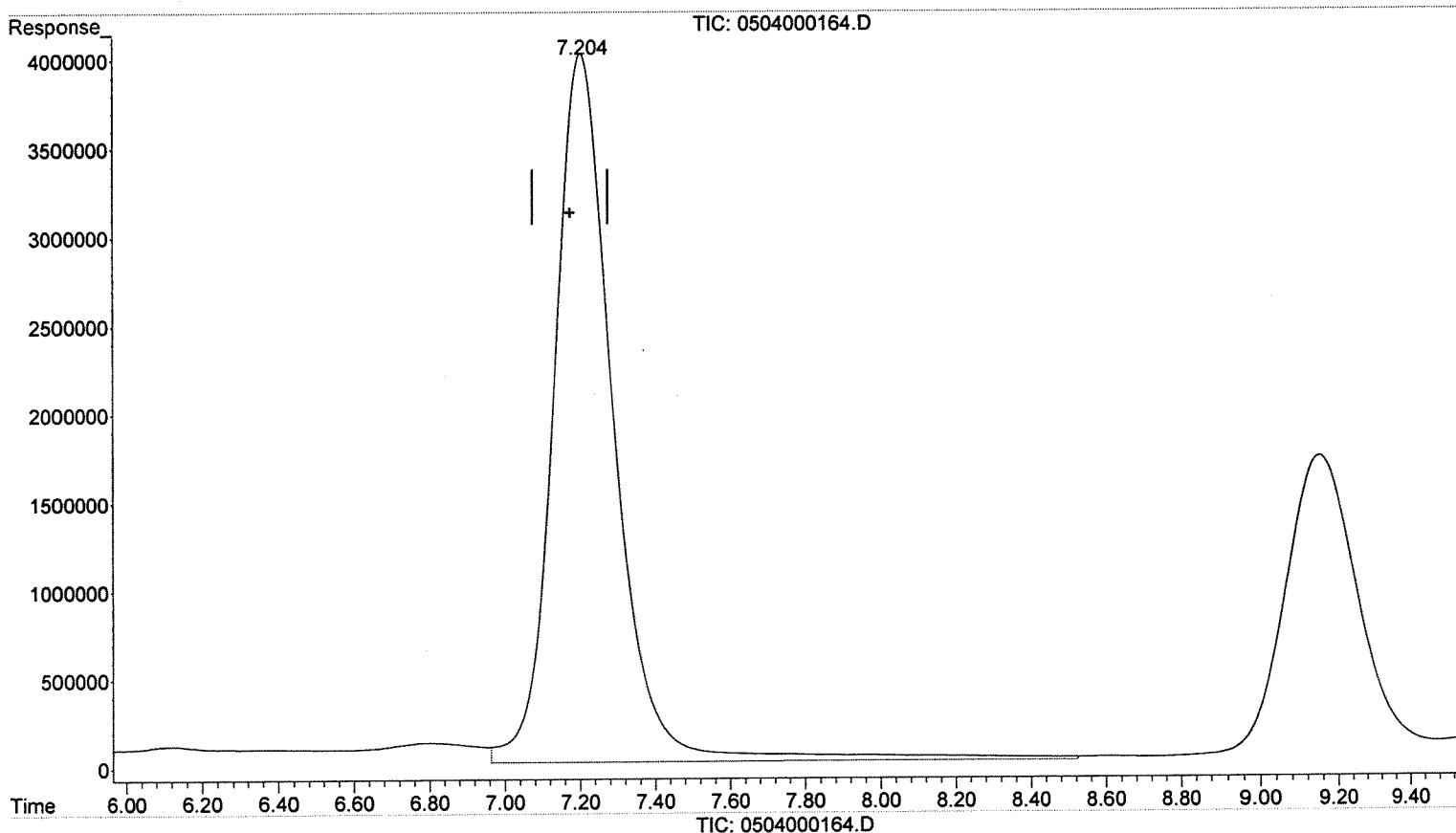
05/12/15

~~90X~~  
518.15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000164.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 06:26:56  
Operator : CFS  
Sample : K1503815-011 MS 5/5  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:24 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.204min 2216.455 ug/L  
response 44623268

Manual Integration:

Before

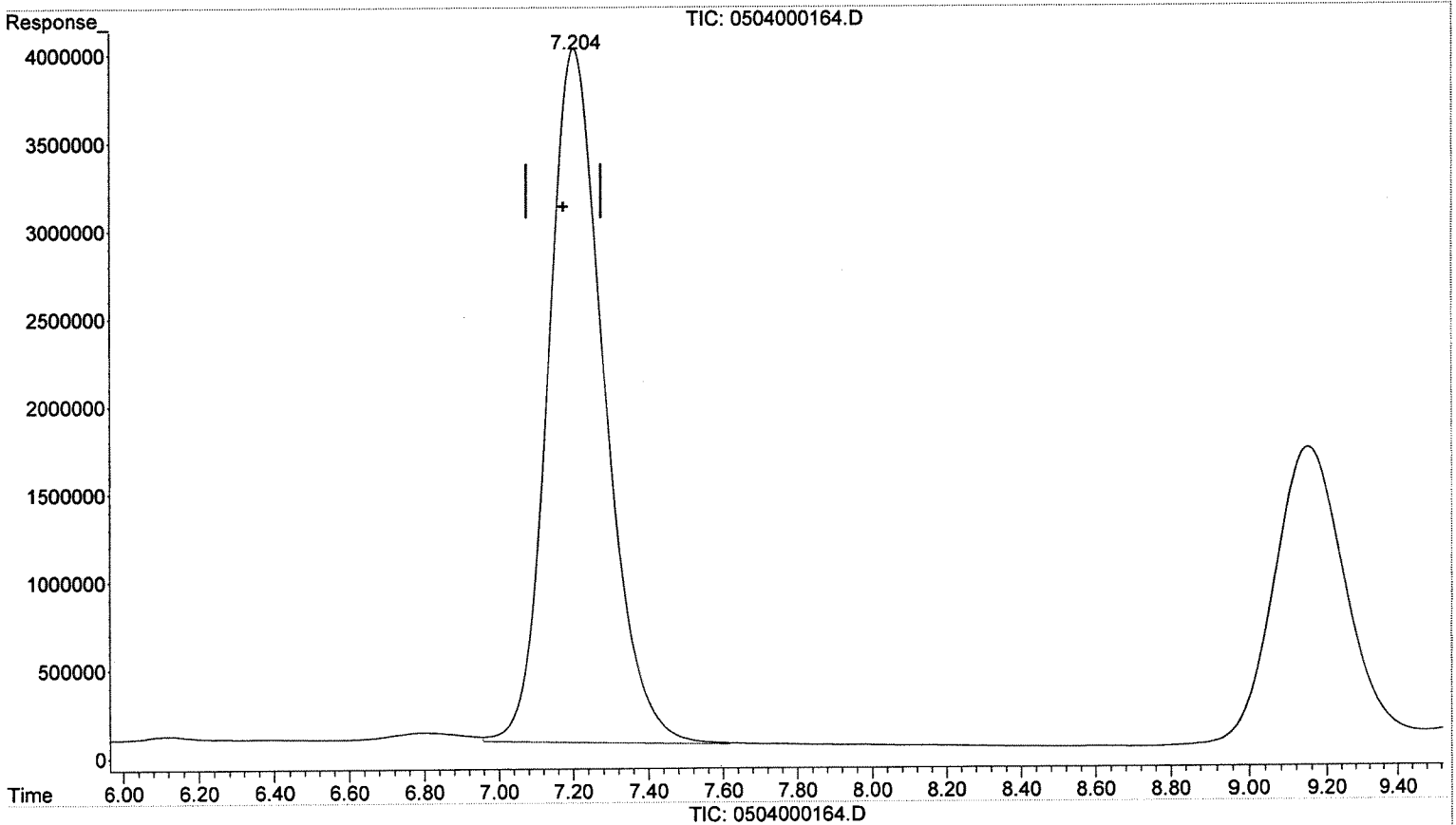
05/12/15

5/18/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000164.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 06:26:56  
Operator : CFS  
Sample : K1503815-011 MS 5/5  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:24 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.204min 2043.944 ug/L m  
response 41148532

Manual Integration:

After

BLC

05/12/15

001  
5.18.15

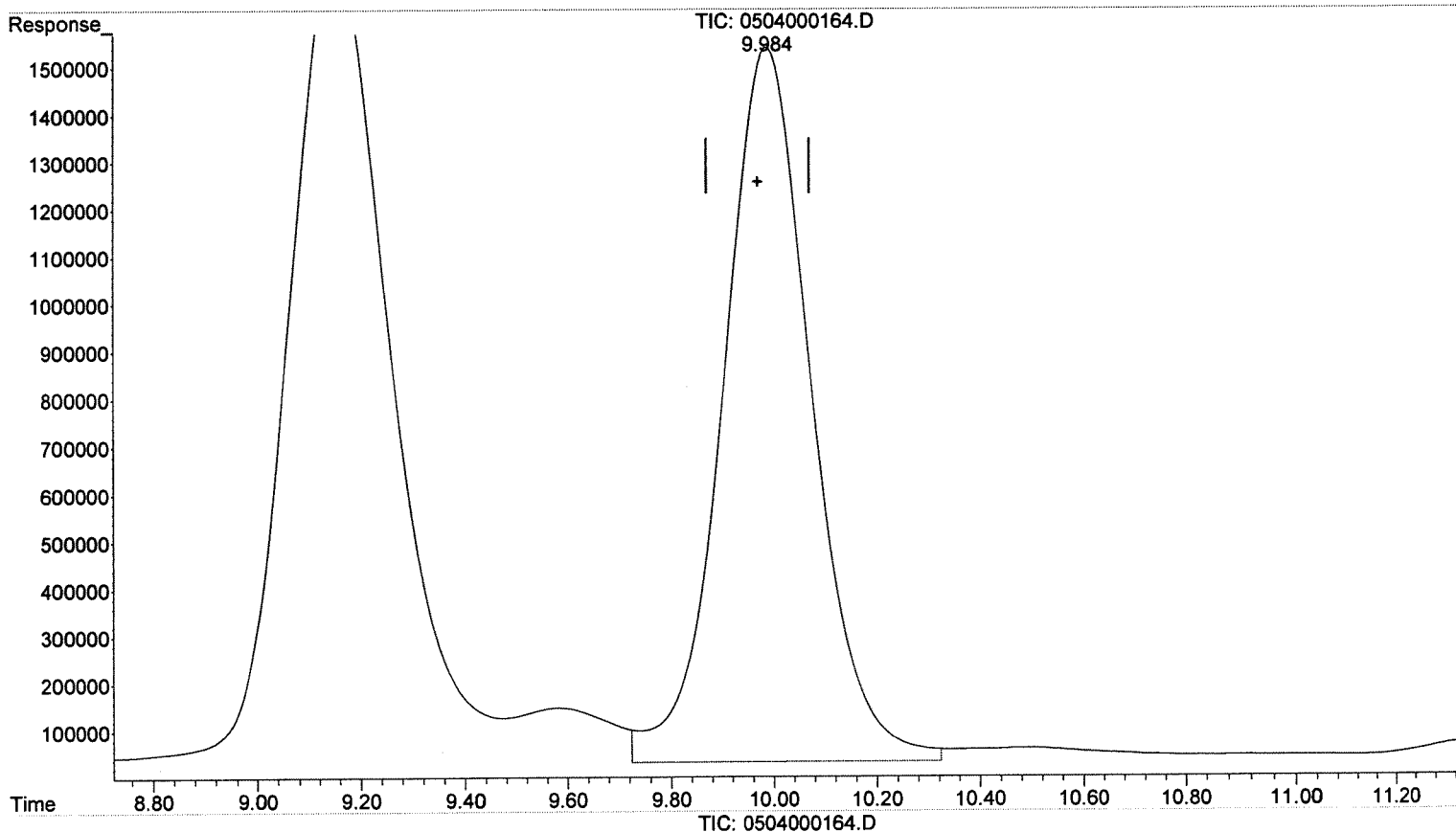
(+) = Expected Retention Time  
031615\_8330B@254.M Tue May 12 16:04:05 2015

Page: 1

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000164.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 06:26:56  
Operator : CFS  
Sample : K1503815-011 MS 5/5  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:24 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.984min 398.168 ug/L  
response 18033420

Manual Integration:

Before

05/12/15

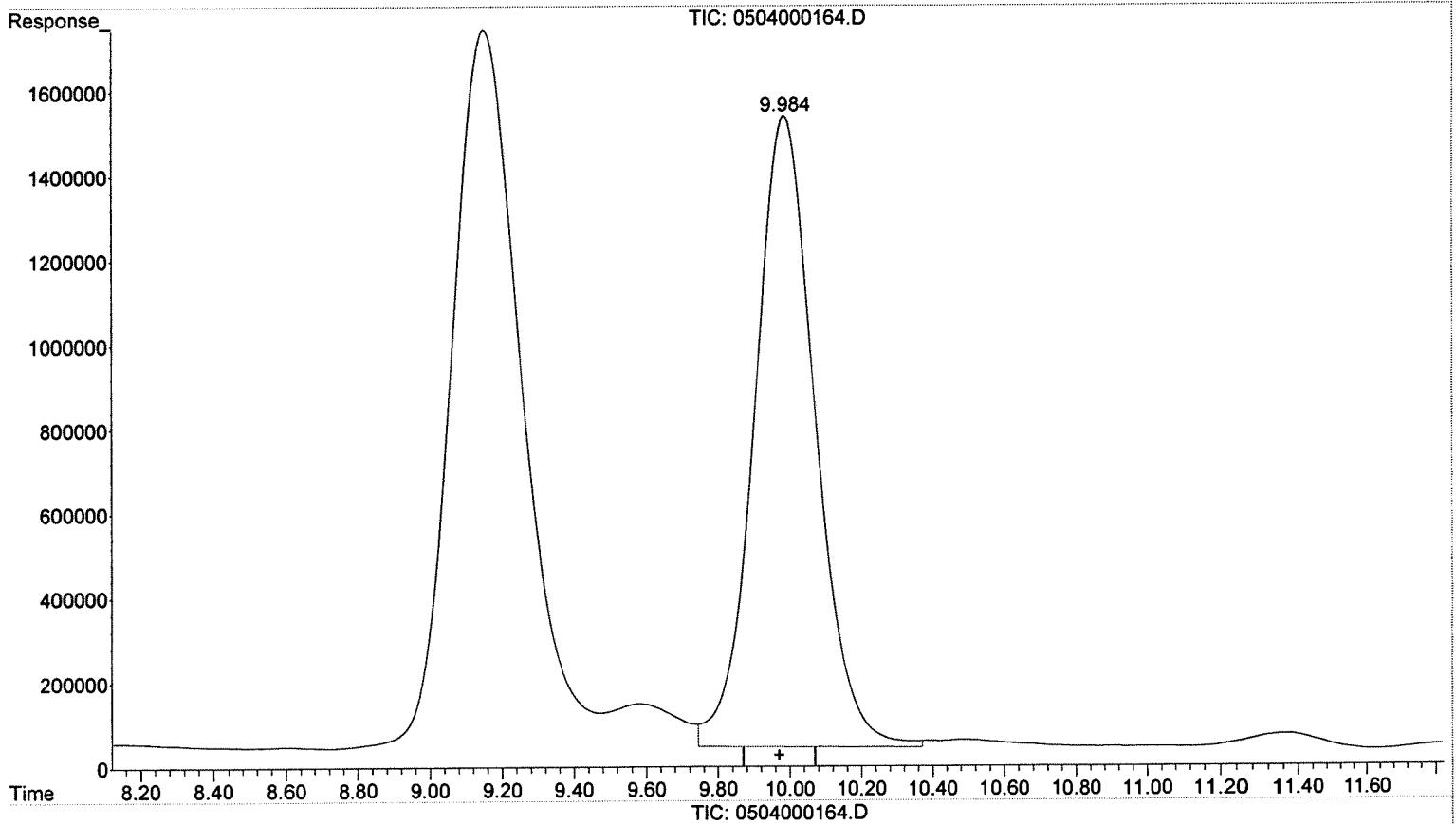
Page: 1

(+) = Expected Retention Time  
031615\_8330B@254.M Tue May 12 16:04:12 2015

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000164.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 06:26:56  
Operator : CFS  
Sample : K1503815-011 MS 5/5  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:24 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.984min 387.921 ug/L m  
response 17569323

Manual Integration:

After

BLC

05/12/15

(+) = Expected Retention Time  
031615\_8330B@254.M Tue May 12 16:04:52 2015

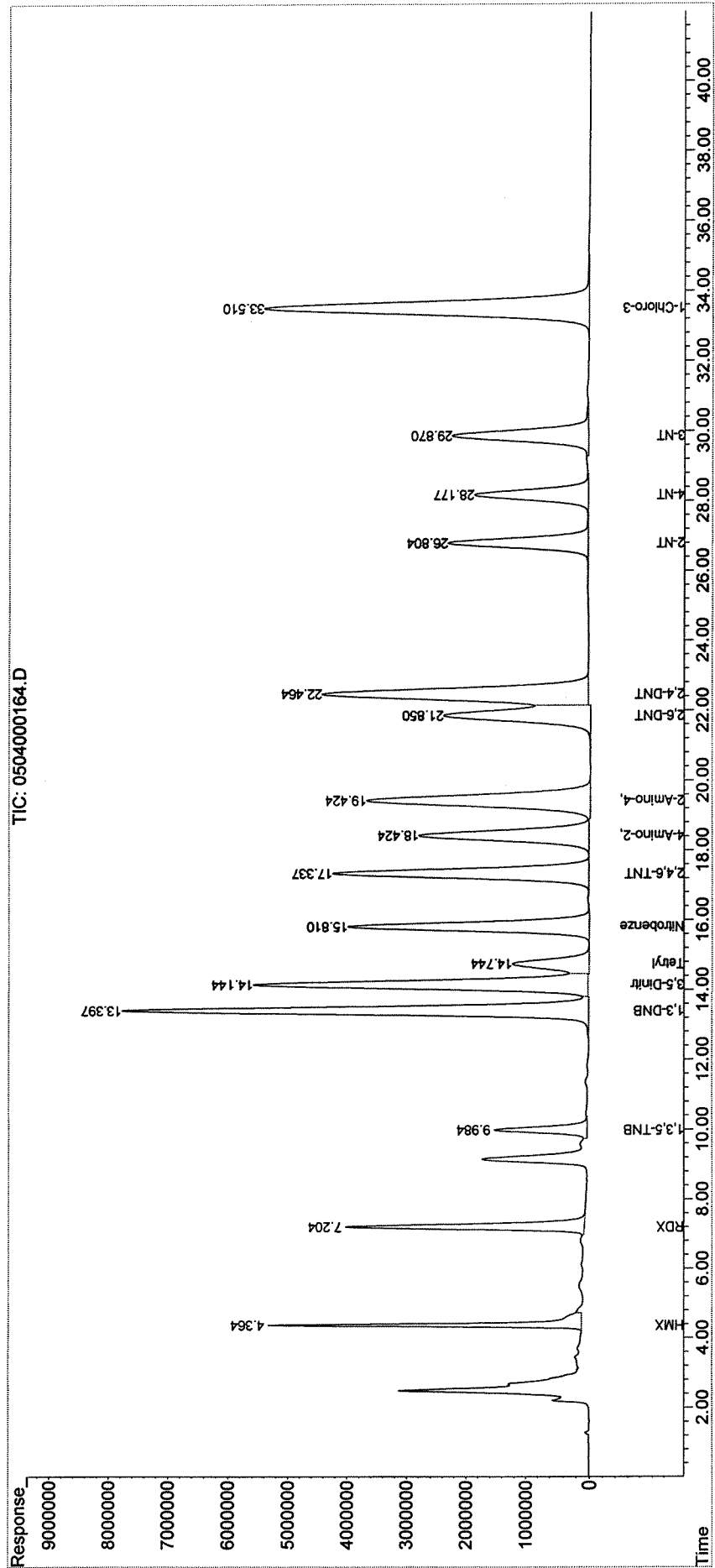
5/18/15 Page: 1



Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000164.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 06:26:56  
Operator : CFS  
Sample : K1503815-011 MS 5/5  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 16:04:49 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CALL3891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000220.D  
**Lab ID:** KWG1503332-2 -- K1503815-011DMS  
**RunType:** DMS  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 17:33  
**Date Quantitated:** 05/01/2015 14:13  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

### Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	TETRYL	-31.6	NA	20	<i>Review</i>

Primary Review: *Rev 5/5/15*

Secondary Review: *JA 5.12.15*

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000220.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 17:33	<b>Quant Date:</b> 05/01/2015 14:13
<b>Run Type:</b> DMS	<b>Vial:</b> 65
<b>Lab ID:</b> KWG1503332-2 -- K1503815-011DMS	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 05	<b>Tier:</b>	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b>	<b>Receive Date:</b> 04/20/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427796	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.23	-0.09	138757049	4,516	90	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.32	-0.01	29856604m	1,936	7.45		
RDX	7.12	-0.02	40379888	2,006	7.71		
1,3,5-Trinitrobenzene	9.91	-0.02	60266523	1,331	5.12		
1,3-Dinitrobenzene	13.27	-0.04	115577568	1,890	7.27		
3,5-Dinitroaniline	13.91	-0.09	91571481	1,888	7.26		
TETRYL	14.63	-0.08	45209842	1,283	4.93		NR
Nitrobenzene	15.69	-0.04	70301233	1,814	6.98		
2,4,6-Trinitrotoluene	17.23	-0.06	78435810	1,864	7.17		
4-Amino-2,6-dinitrotoluene	18.14	-0.13	57419575	1,843	7.09		
2-Amino-4,6-dinitrotoluene	19.11	-0.13	79930769	1,919	7.38		
2,6-Dinitrotoluene	21.63	-0.10	54665978	1,927	7.41		
2,4-Dinitrotoluene	22.21	-0.10	99977718	1,773	6.82		
2-Nitrotoluene	26.62	-0.06	44021799	1,738	6.69		
4-Nitrotoluene	27.96	-0.07	37123409	1,739	6.69		
3-Nitrotoluene	29.63	-0.08	49160584	1,728	6.65		

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000220.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 17:33:41  
 Operator : CFS  
 Sample : K1503815-011 DMS  
 Misc :  
 ALS Vial : 65 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:13:46 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.227	138757049	4515.732	ug/L
Target Compounds				
1) T HMX	4.320	29856604	1936.401	ug/L m
2) T RDX	7.120	40379888	2005.770	ug/L
3) T 1,3,5-TNB	9.914	60266523	1330.653	ug/L
4) T 1,3-DNB	13.274	115577568	1889.928	ug/L
5) T 3,5-Dinitroaniline	13.907f	91571481	1888.037	ug/L
6) T Tetryl	14.627f	45209842	1282.809	ug/L
7) T Nitrobenzene	15.687	70301233	1814.146	ug/L
8) T 2,4,6-TNT	17.227	78435810	1863.539	ug/L
9) T 4-Amino-2,6-DNT	18.140f	57419575	1842.977	ug/L
10) T 2-Amino-4,6-DNT	19.107	79930769	1919.458	ug/L
11) T 2,6-DNT	21.627	54665978	1926.610	ug/L
12) T 2,4-DNT	22.214	99977718	1773.304	ug/L
13) T 2-NT	26.620	44021799	1738.492	ug/L
14) T 4-NT	27.960	37123409	1738.533	ug/L
15) T 3-NT	29.634	49160584	1728.048	ug/L
-----				

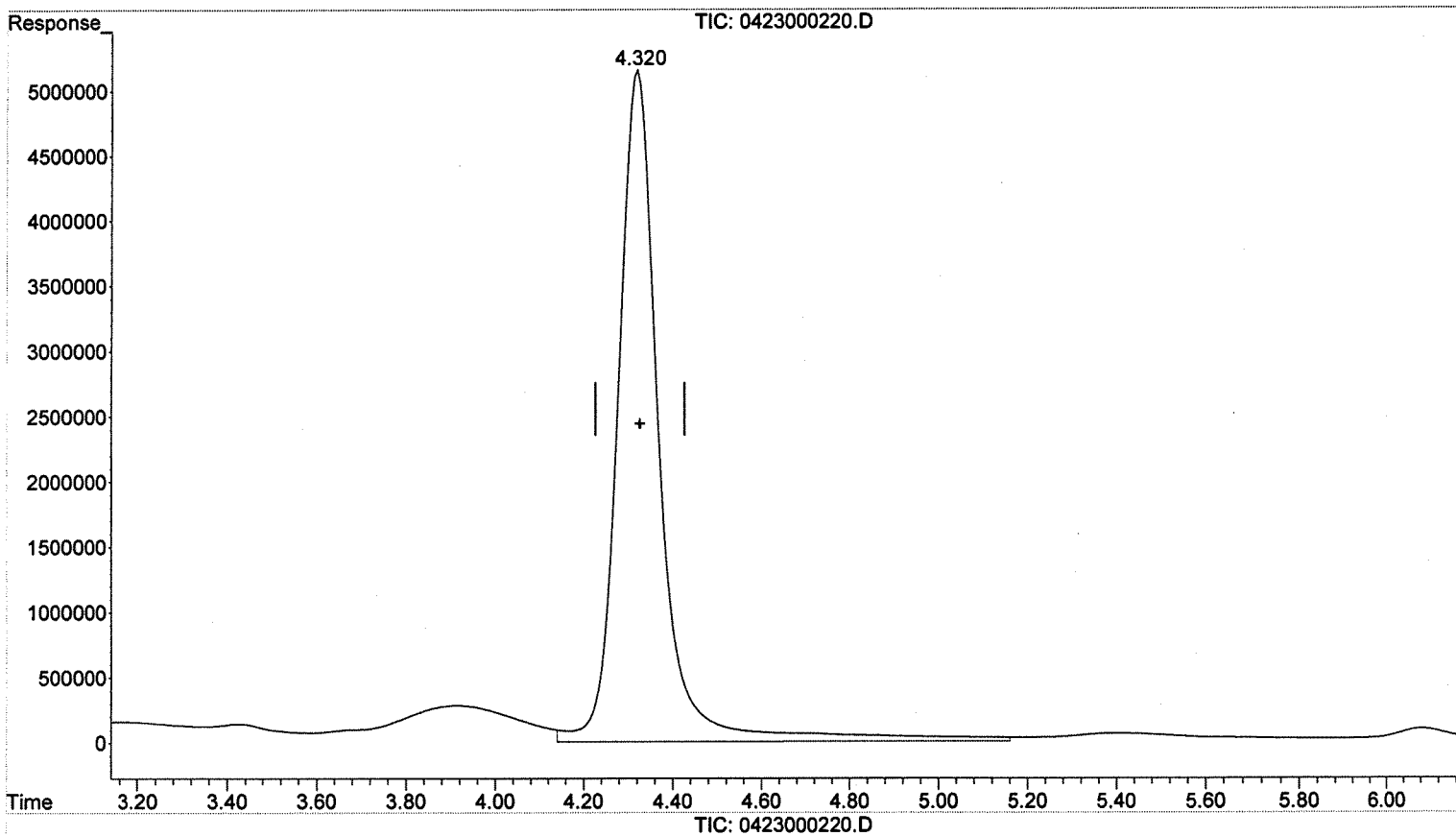
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000220.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 17:33:41  
Operator : CFS  
Sample : K1503815-011 DMS  
Misc :  
ALS Vial : 65 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:43:03 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.320min 2175.788 ug/L  
response 33547618

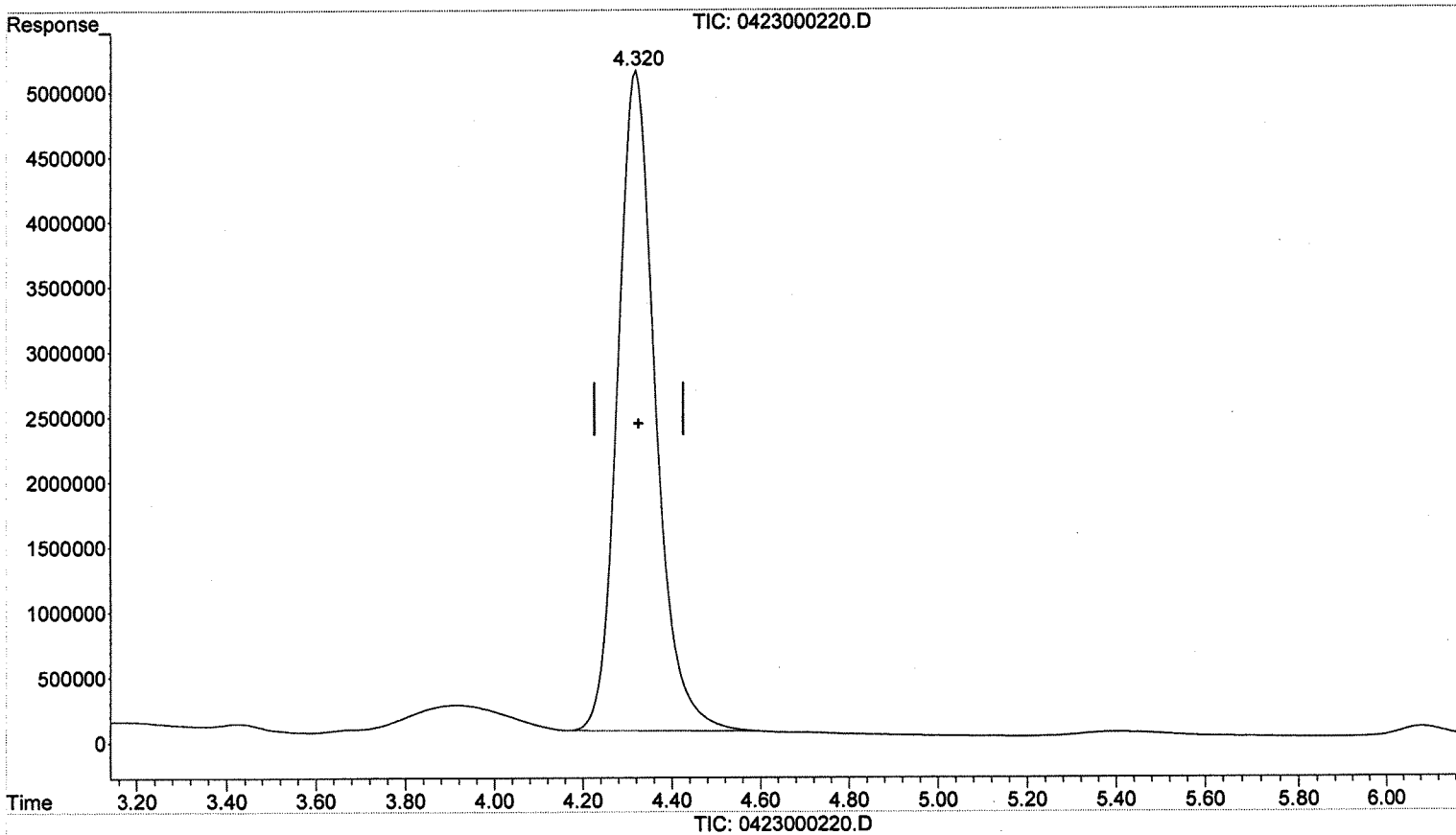
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000220.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 17:33:41  
Operator : CFS  
Sample : K1503815-011 DMS  
Misc :  
ALS Vial : 65 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:43:03 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



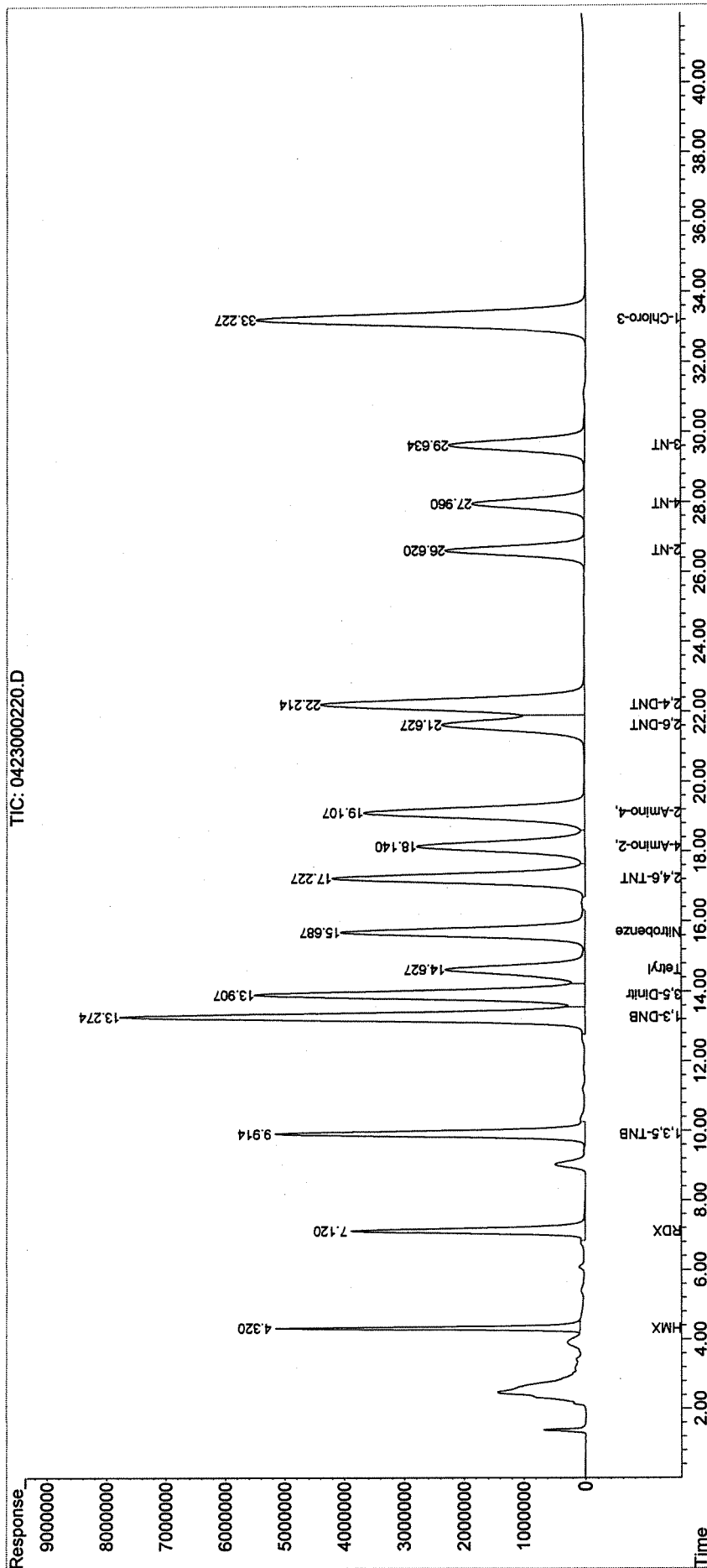
(1) HMX (T)  
4.320min 1936.401 ug/L m  
response 29856604

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000220.D  
 Signal(s) : DADIA.ch  
 Acq On : 24-Apr-2015, 17:33:41  
 Operator : CFS  
 Sample : K1503815-011 DMS  
 Misc :  
 ALS Vial : 65 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:13:46 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 Quant Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000220.D  
**Lab ID:** KWG1503332-2 -- K1503815-011DMS  
**RunType:** DMS  
**Matrix:** WATER

**Date Acquired:** 04/24/2015 17:33  
**Date Quantitated:** 05/12/2015 09:05  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: lu 5/12/15

Secondary Review: QA 5/12/15



# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\210\0423000220.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 17:33	<b>Quant Date:</b>	05/12/2015 09:05
<b>Run Type:</b>	DMS	<b>Vial:</b>	65
<b>Lab ID:</b>	KWG1503332-2 -- K1503815-011DMS	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>	05	<b>Tier:</b>		<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>		<b>Receive Date:</b>	04/20/2015

<b>Analysis Lot:</b>	KWG1503922	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427796	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13892
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>	J:\LC10\DATA\042315X\210\0423000204.D	<b>Quant based on Method</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.23	-0.09	358727173	4,323	86	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	15.69	-0.04	72695114	1,755	6.75		
Pentaerythritol Tetranitrate	29.63	-0.08	105700662	1,806	6.95		

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000220.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 17:33:41  
 Operator : CFS  
 Sample : K1503815-011 DMS  
 Misc :  
 ALS Vial : 65 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:05:46 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.227	358727173	4322.970 ug/L
Target Compounds			
1) T Nitroglycerin	15.687	72695114	1754.856 ug/L
2) T PETN	29.634	105700662	1806.094 ug/L
-----			

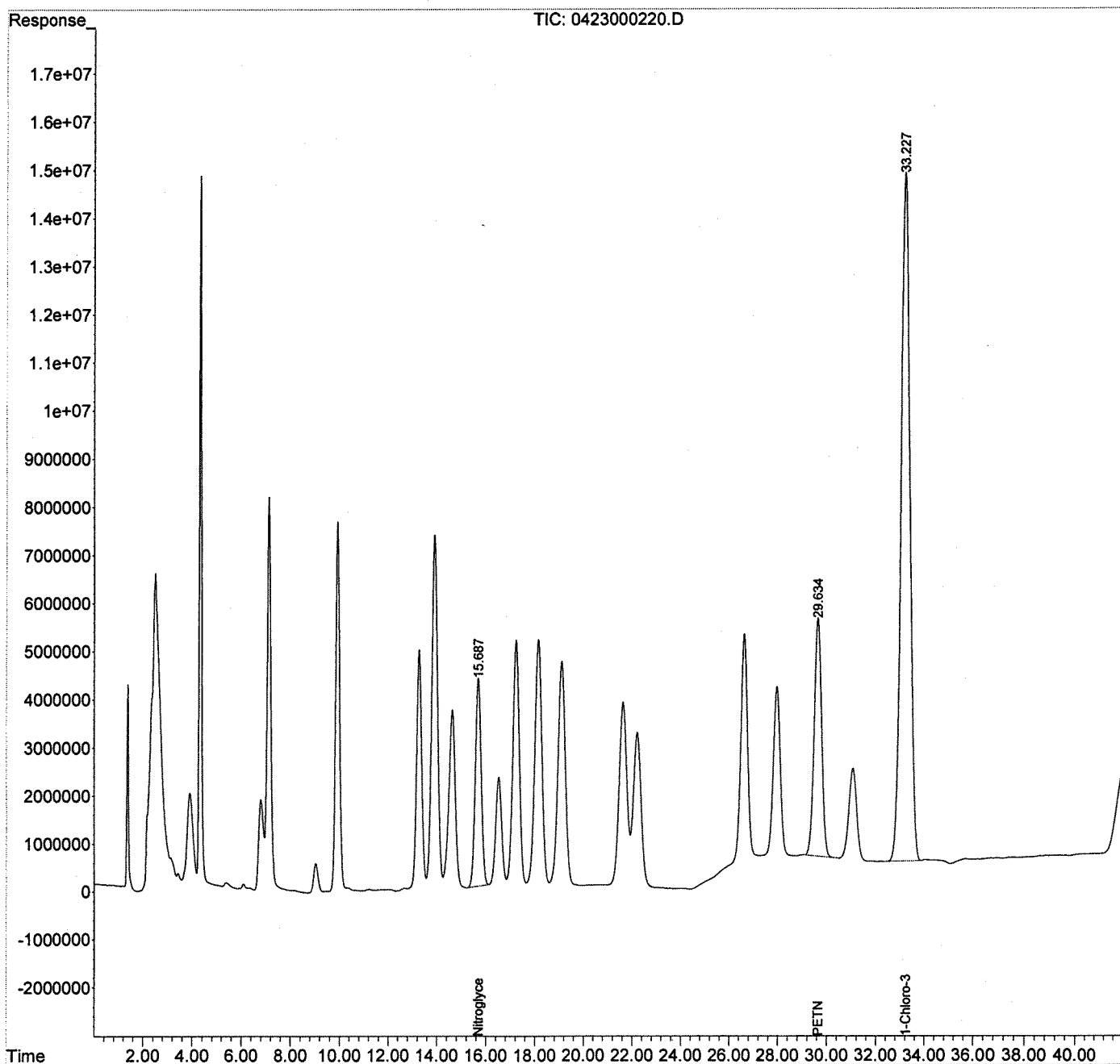
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000220.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 17:33:41  
Operator : CFS  
Sample : K1503815-011 DMS  
Misc :  
ALS Vial : 65 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:05:46 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000165.D  
**Lab ID:** KWG1503332-2 -- K1503815-011DMS  
**RunType:** DMS  
**Matrix:** WATER

**Date Acquired:** 05/06/2015 07:14  
**Date Quantitated:** 05/12/2015 16:05  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: RL 5/13/15

Secondary Review: QA 5-18-15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000165.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 05/06/2015 07:14	<b>Quant Date:</b> 05/12/2015 16:05
<b>Run Type:</b> DMS	<b>Vial:</b> 12
<b>Lab ID:</b> KWG1503332-2 -- K1503815-011DMS	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b> 05	<b>Tier:</b>	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b>	<b>Receive Date:</b> 04/20/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427796	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?	
1-Chloro-3-nitrobenzene	33.55	0.07	138766695	4,516	90	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units:		Q	Rpt?
				Solution Conc	ug/L		
HMX	4.37	0.02	32479701m	2,107	8.10		NR
RDX	7.23	0.05	41181989	2,046	7.87		NR
1,3,5-Trinitrobenzene	10.01	0.04	45702948	1,009	3.88		NR
1,3-Dinitrobenzene	13.43	0.03	114923855	1,879	7.23		NR
3,5-Dinitroaniline	14.19	0.05	89224745	1,840	7.08		NR
TETRYL	14.77	-0.01	39033704	1,108	4.26		
Nitrobenzene	15.84	0.02	68157612	1,759	6.76		NR
2,4,6-Trinitrotoluene	17.37	0.01	77019843	1,830	7.04		NR
4-Amino-2,6-dinitrotoluene	18.47	0.03	56014027	1,798	6.91		NR
2-Amino-4,6-dinitrotoluene	19.47	0.02	81066279	1,947	7.49		NR
2,6-Dinitrotoluene	21.88	0.01	53874085	1,899	7.30		NR
2,4-Dinitrotoluene	22.49	0.01	101325513	1,797	6.91		NR
2-Nitrotoluene	26.83	0.03	44556286	1,760	6.77		NR
4-Nitrotoluene	28.20	0.04	37037703	1,735	6.67		NR
3-Nitrotoluene	29.90	0.05	49409386	1,737	6.68		NR

**Prep Amount:** 1040 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 F: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000165.D  
 Signal(s) : DAD1A.ch  
 Acq On : 06-May-2015, 07:14:06  
 Operator : CFS  
 Sample : K1503815-011 DMS 5/5  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 16:05:22 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:25:44 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.552	138766695	4516.046 ug/L
Target Compounds			
1) T HMX	4.372	32479701	2106.526 ug/L m
2) T RDX	7.226	41181989	2045.605 ug/L
3) T 1,3,5-TNB	10.006	45702948	1009.097 ug/L
4) T 1,3-DNB	13.432	114923855	1879.239 ug/L
5) T 3,5-Dinitroaniline	14.186	89224745	1839.651 ug/L
6) T Tetryl	14.772	39033704	1107.564 ug/L
7) T Nitrobenzene	15.839	68157612	1758.829 ug/L
8) T 2,4,6-TNT	17.366	77019843	1829.897 ug/L
9) T 4-Amino-2,6-DNT	18.466	56014027	1797.864 ug/L
10) T 2-Amino-4,6-DNT	19.466	81066279	1946.726 ug/L
11) T 2,6-DNT	21.879	53874085	1898.701 ug/L
12) T 2,4-DNT	22.486	101325513	1797.210 ug/L
13) T 2-NT	26.826	44556286	1759.600 ug/L
14) T 4-NT	28.199	37037703	1734.519 ug/L
15) T 3-NT	29.899	49409386	1736.794 ug/L
-----			

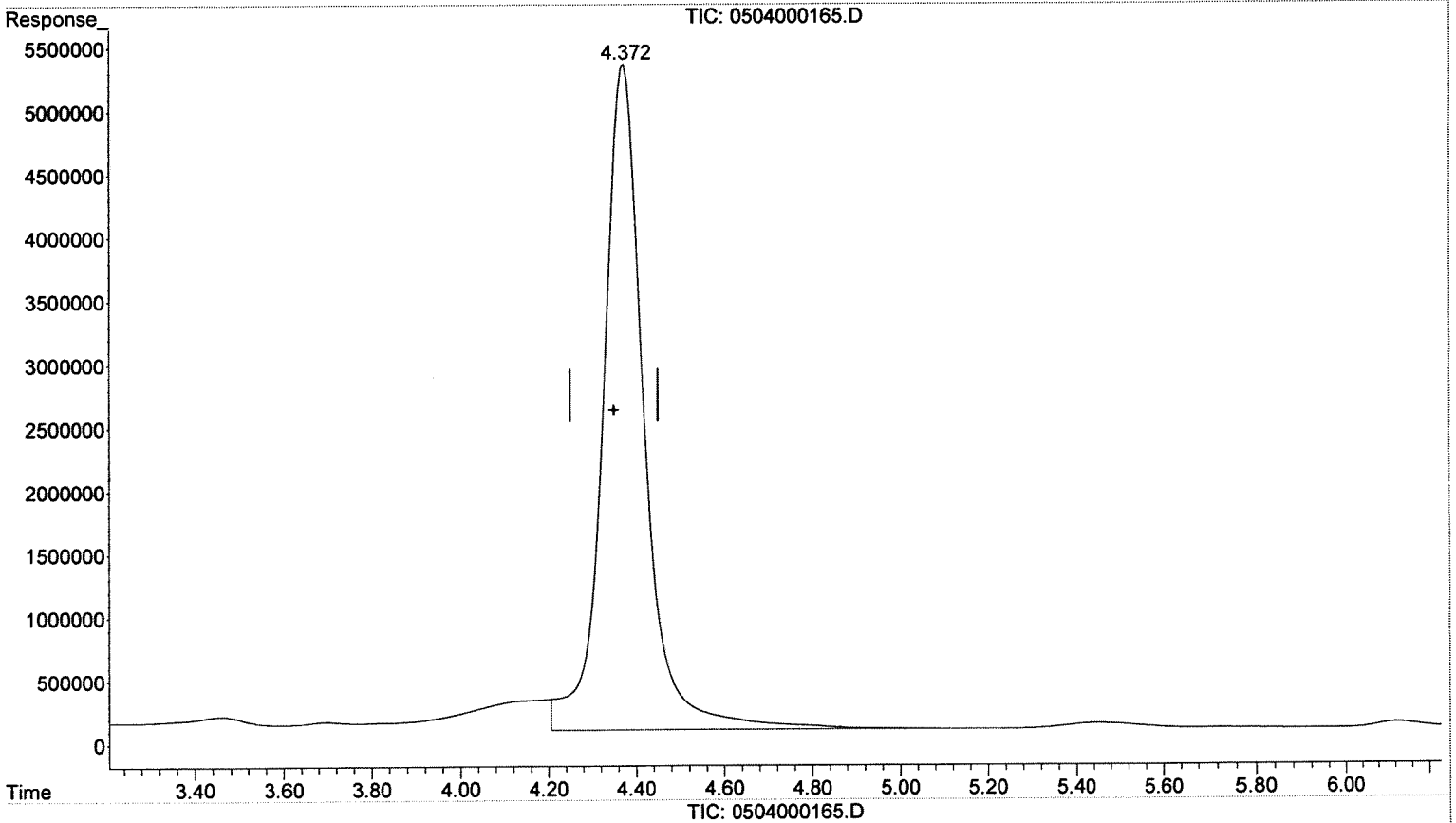
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000165.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 07:14:06  
Operator : CFS  
Sample : K1503815-011 DMS 5/5  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:26 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.372min 2224.183 ug/L  
response 34293806

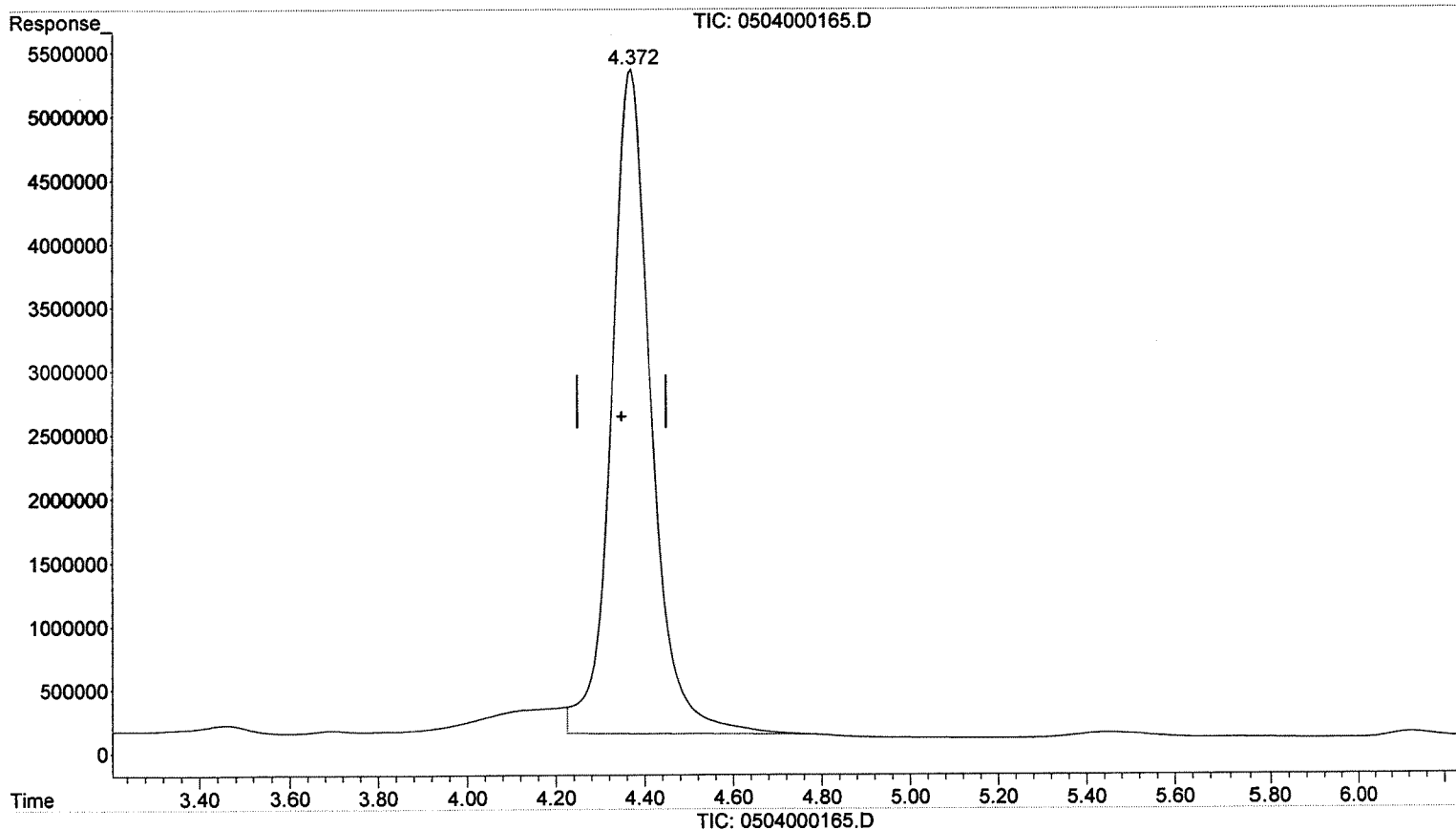
Manual Integration:  
Before

05/12/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000165.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 07:14:06  
Operator : CFS  
Sample : K1503815-011 DMS 5/5  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:26 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.372min 2106.526 ug/L m  
response 32479701

Manual Integration:

After

BLC

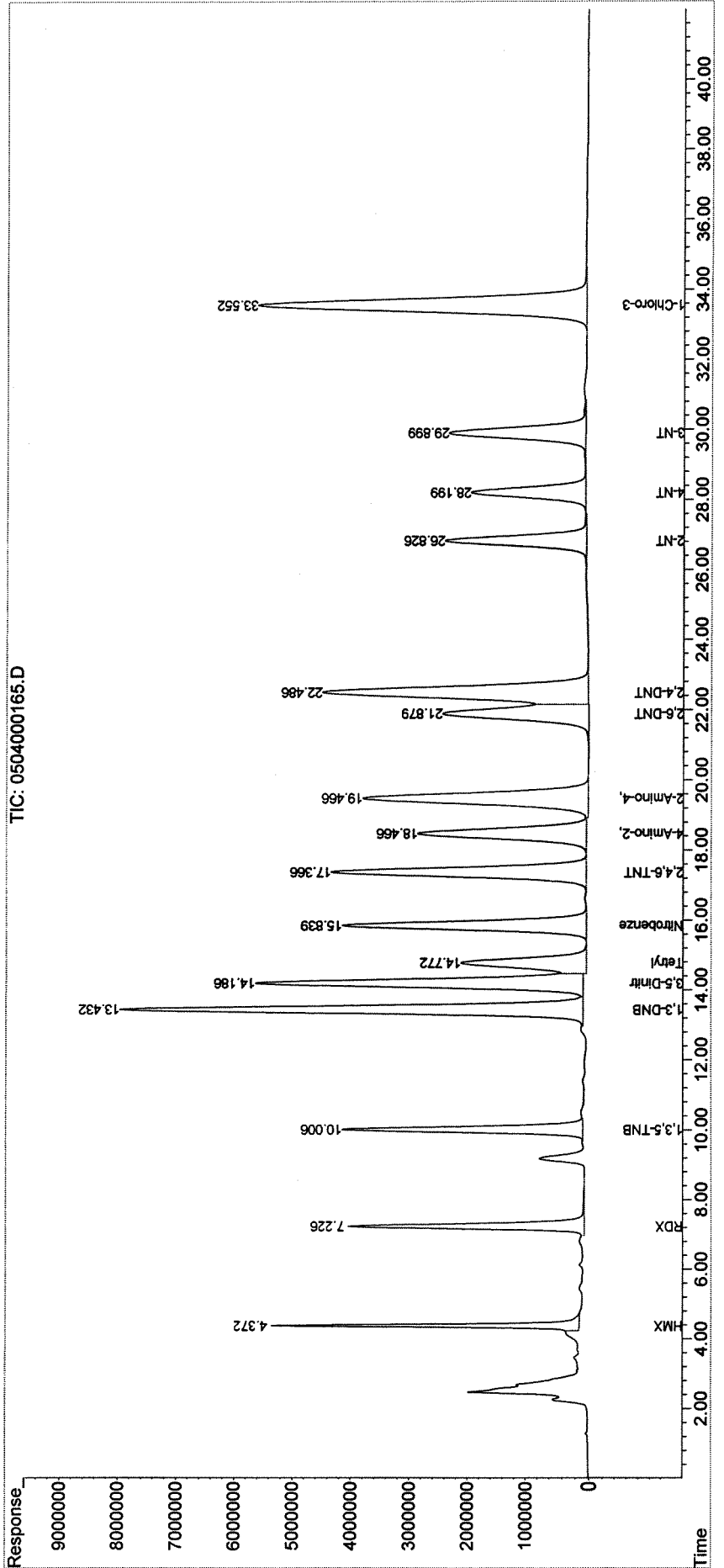
05/12/15



Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000165.D  
 Signal(s) : DAD1A.ch  
 Acq On : 06-May-2015, 07:14:06  
 Operator : CFS  
 Sample : K1503815-011 DMS 5/5  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 16:05:22 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:25:44 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



## Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000205.D  
**Lab ID:** KWG1503332-3  
**Run Type:** LCS  
**Matrix:** WATER

**Date Acquired:** 04/23/2015 23:52  
**Date Quantitated:** 05/01/2015 10:35  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

### Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
CAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Mid MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: Mc 5/5/15

Secondary Review: ~~QA~~ 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000205.D	<b>Instrument:</b> LC10
<b>Acq Date:</b> 04/23/2015 23:52	<b>Quant Date:</b> 05/01/2015 10:35
<b>Run Type:</b> LCS	<b>Vial:</b> 52
<b>Lab ID:</b> KWG1503332-3	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> WATER
<b>Prod Code:</b> 8330B NitramAro	<b>Collect Date:</b>	<b>Receive Date:</b> 04/20/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b> KWG1503332	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b> METHOD	
<b>Prep Ref:</b> 1427797	<b>Prep Date:</b> 04/20/2015	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	
<b>MB Ref:</b> J:\LC10\DATA\042315X\254\0423000204.D	<b>Method ID:</b> MJ1278
	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.45	0.01	125473646	4,083	82	23-98	OK

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.35	0.01	31528397m	2,045	8.18		
RDX	7.17	0.02	38532116m	1,914	7.66		
1,3,5-Trinitrobenzene	9.97	0.02	23869691m	527.03	2.11		
1,3-Dinitrobenzene	13.36	0.01	109627050	1,793	7.17		
3,5-Dinitroaniline	14.05		86446381	1,782	7.13		
TETRYL	14.71	-0.04	32313625	916.89	3.67		
Nitrobenzene	15.77		64668268	1,669	6.68		
2,4,6-Trinitrotoluene	17.33		72318768	1,718	6.87		
4-Amino-2,6-dinitrotoluene	18.33	0.01	53013467	1,702	6.81		
2-Amino-4,6-dinitrotoluene	19.31	0.01	75659266	1,817	7.27		
2,6-Dinitrotoluene	21.79	0.01	49590092	1,748	6.99		
2,4-Dinitrotoluene	22.38	0.01	96935434	1,719	6.88		
2-Nitrotoluene	26.75		41654865	1,645	6.58		
4-Nitrotoluene	28.12	0.01	34667346	1,624	6.49		
3-Nitrotoluene	29.81	0.01	45992264	1,617	6.47		

**Prep Amount:** 1000 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
c: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000205.D  
 Signal(s) : DAD1A.ch  
 Acq On : 23-Apr-2015, 23:52:03  
 Operator : CFS  
 Sample : KWG1503332-3 LCS  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 10:35:22 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.446	125473646	4083.435 ug/L
Target Compounds			
1) T HMX	4.346	31528397	2044.828 ug/L m
2) T RDX	7.173	38532116	1913.986 ug/L m
3) T 1,3,5-TNB	9.966	23869691	527.030 ug/L m
4) T 1,3-DNB	13.359	109627050	1792.625 ug/L
5) T 3,5-Dinitroaniline	14.053	86446381	1782.367 ug/L
6) T Tetryl	14.706	32313625	916.885 ug/L
7) T Nitrobenzene	15.773	64668268	1668.785 ug/L
8) T 2,4,6-TNT	17.333	72318768	1718.206 ug/L
9) T 4-Amino-2,6-DNT	18.333	53013467	1701.556 ug/L
10) T 2-Amino-4,6-DNT	19.306	75659266	1816.882 ug/L
11) T 2,6-DNT	21.793	49590092	1747.719 ug/L
12) T 2,4-DNT	22.379	96935434	1719.343 ug/L
13) T 2-NT	26.753	41654865	1645.018 ug/L
14) T 4-NT	28.119	34667346	1623.512 ug/L
15) T 3-NT	29.813	45992264	1616.678 ug/L
-----			

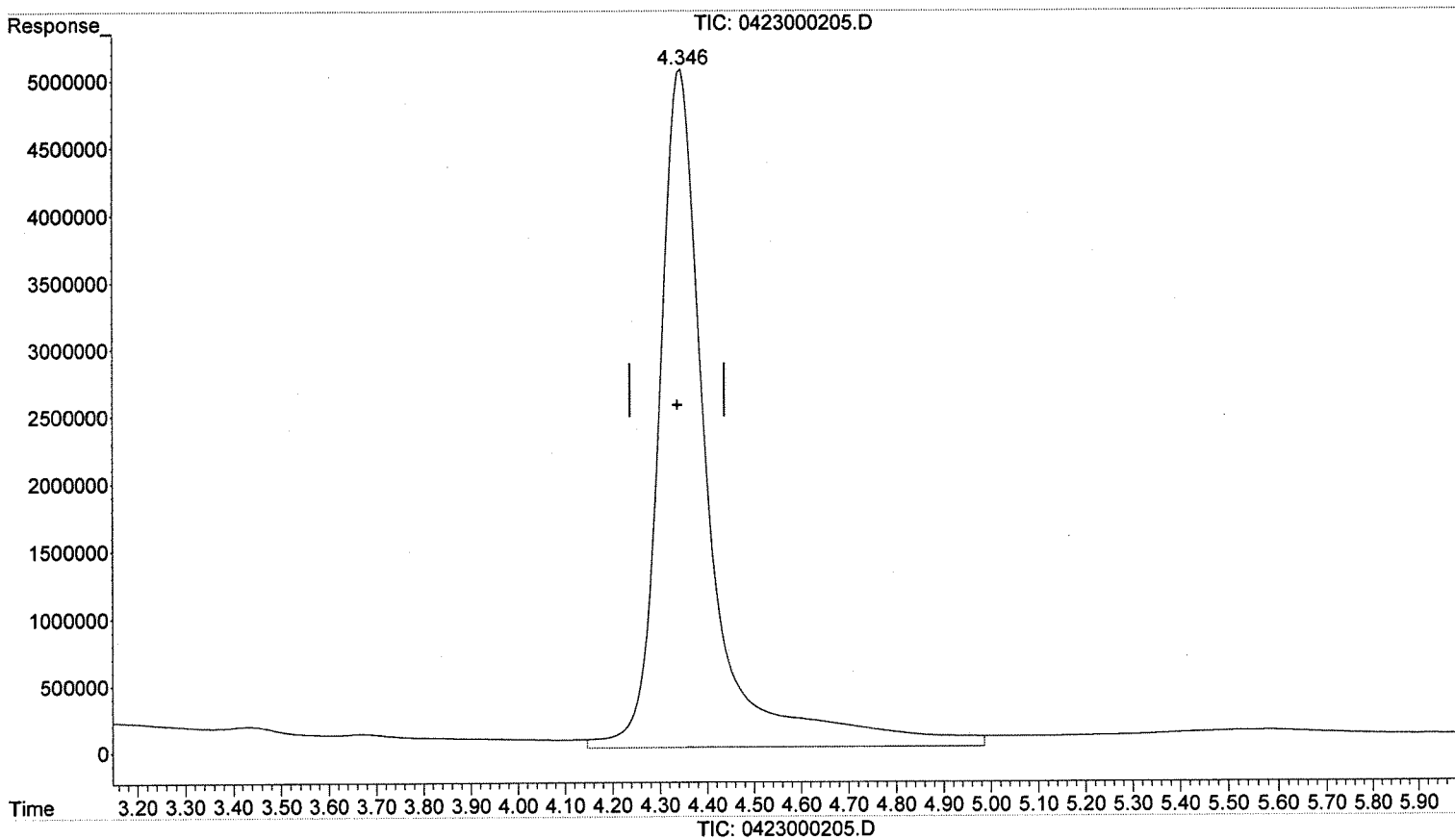
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000205.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 23:52:03  
Operator : CFS  
Sample : KWG1503332-3 LCS  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:45 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.346min 2373.795 ug/L  
response 36600612

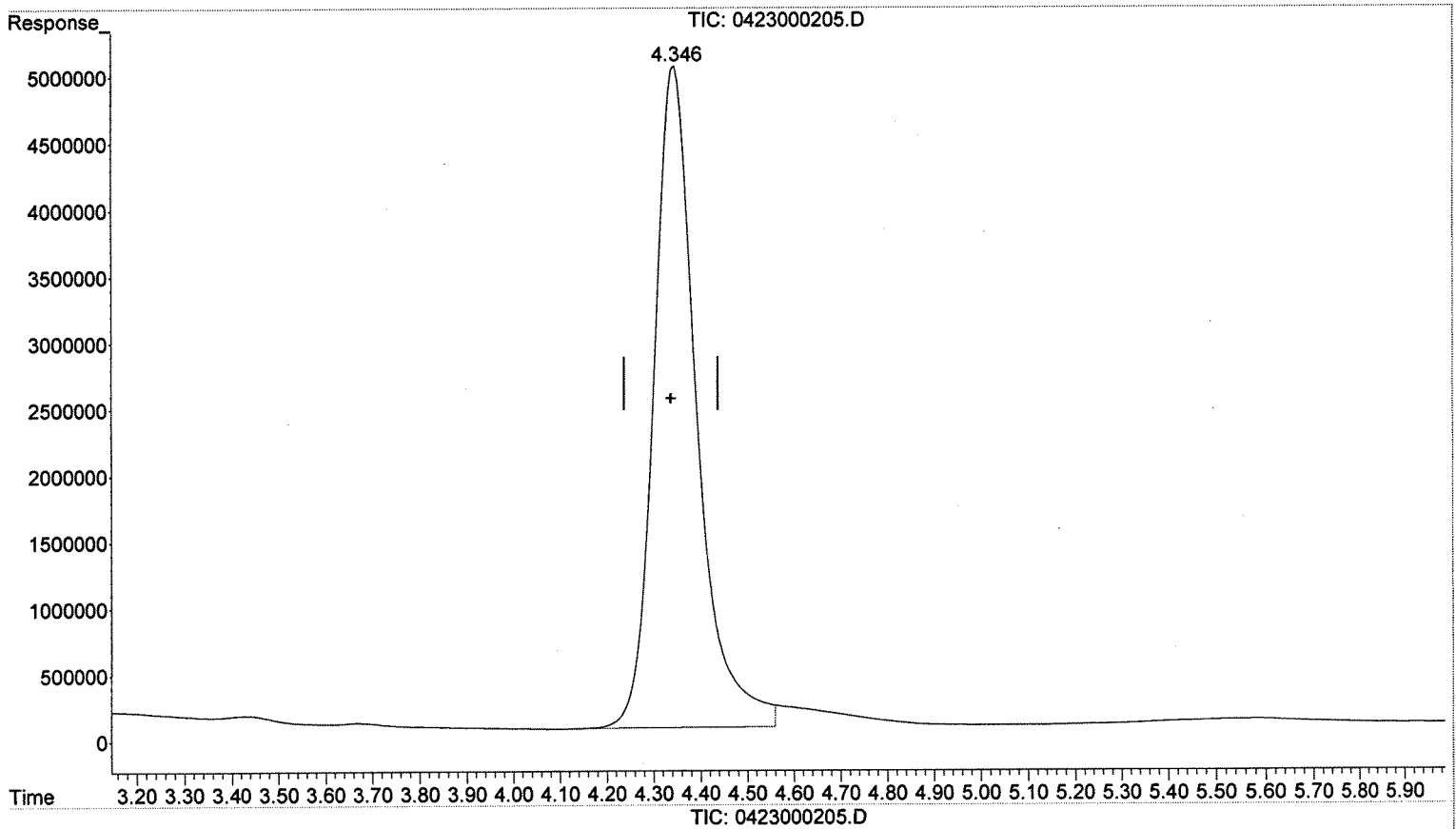
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000205.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 23:52:03  
Operator : CFS  
Sample : KWG1503332-3 LCS  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:45 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



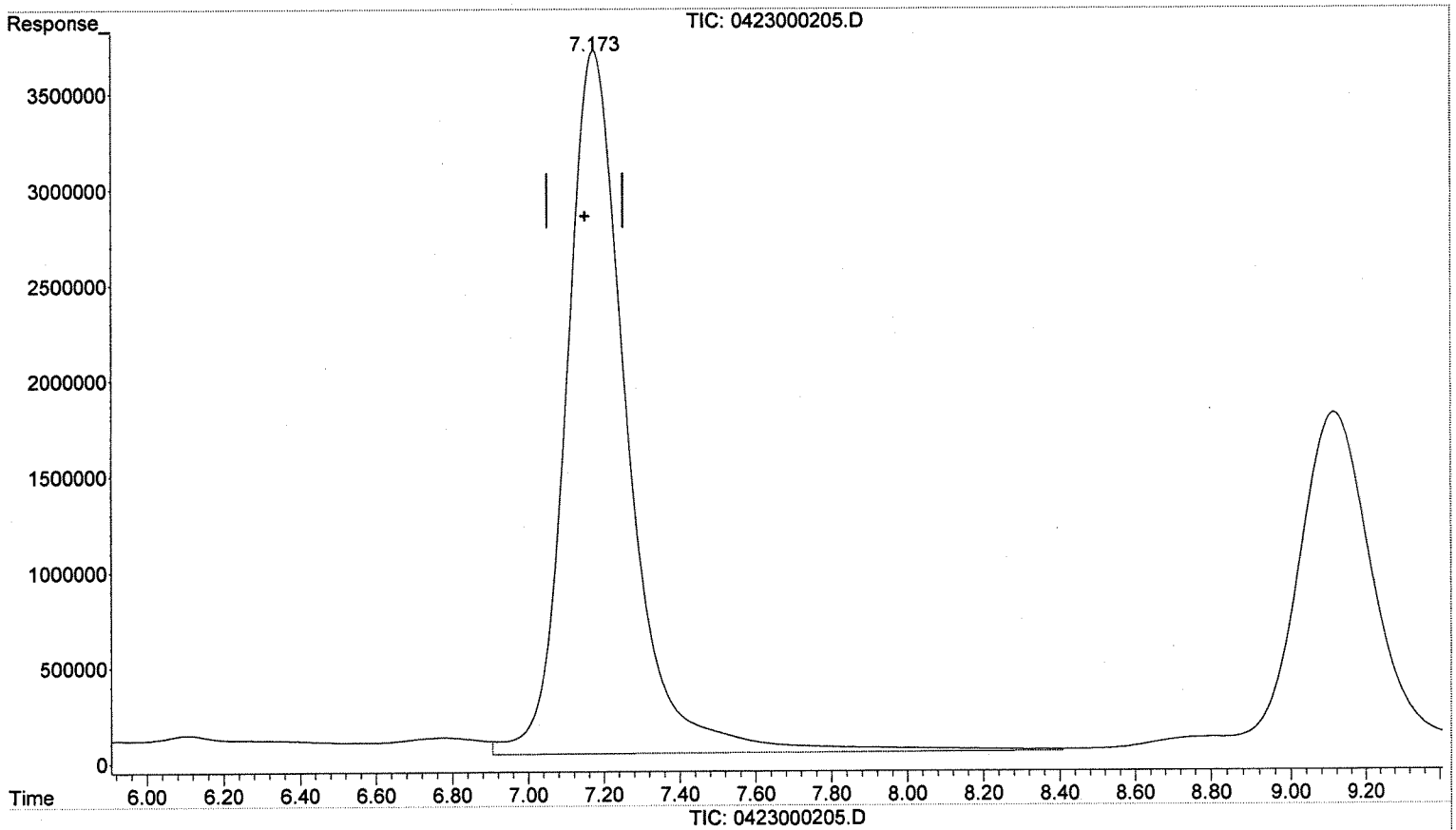
(1) HMX (T)  
4.346min 2044.828 ug/L m  
response 31528397

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000205.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 23:52:03  
Operator : CFS  
Sample : KWG1503332-3 LCS  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:45 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.173min 2055.802 ug/L  
response 41387326

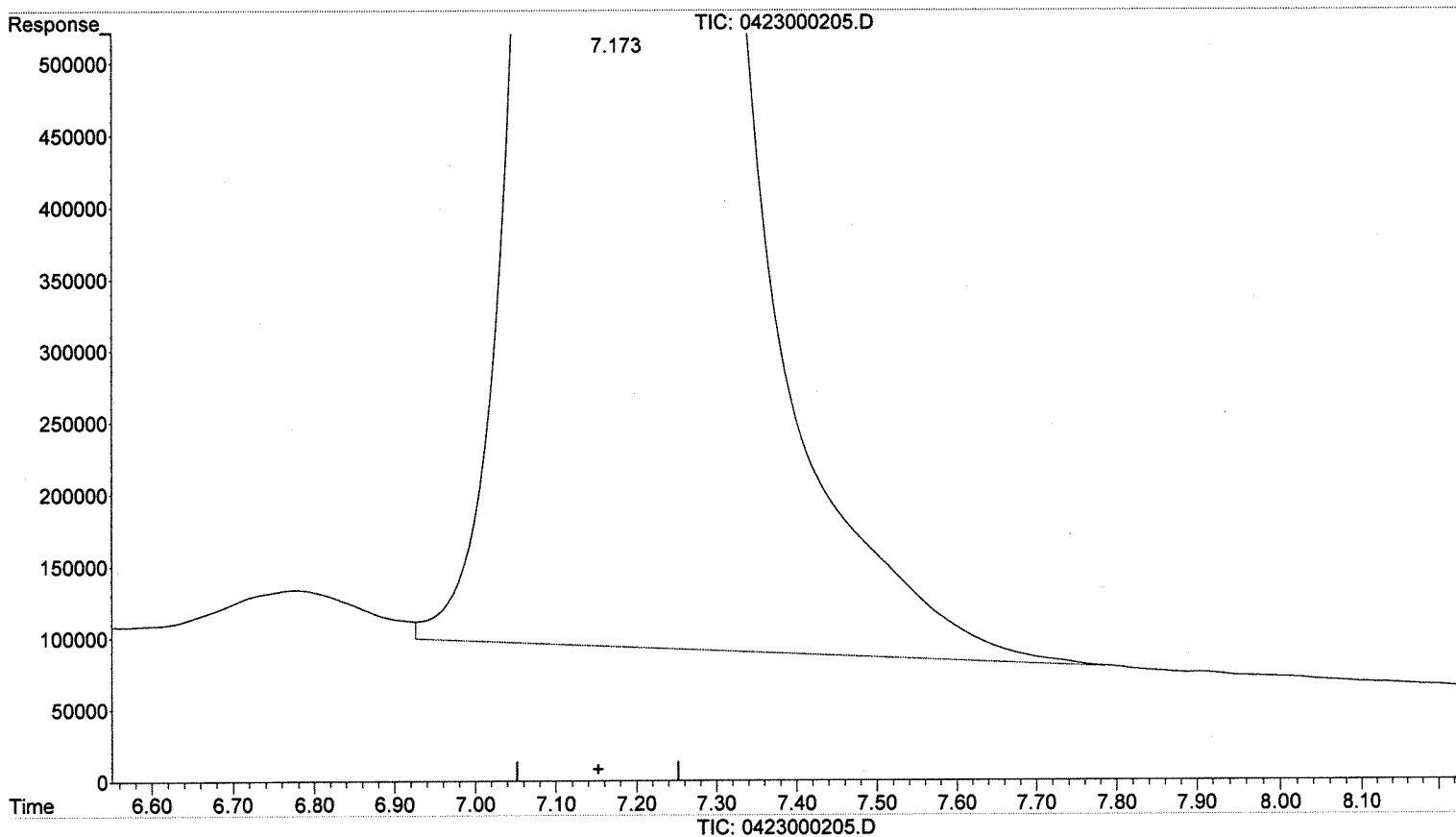
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000205.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 23:52:03  
Operator : CFS  
Sample : KWG1503332-3 LCS  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:45 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.173min 1913.986 ug/L m  
response 38532116

Manual Integration:

After

BLC

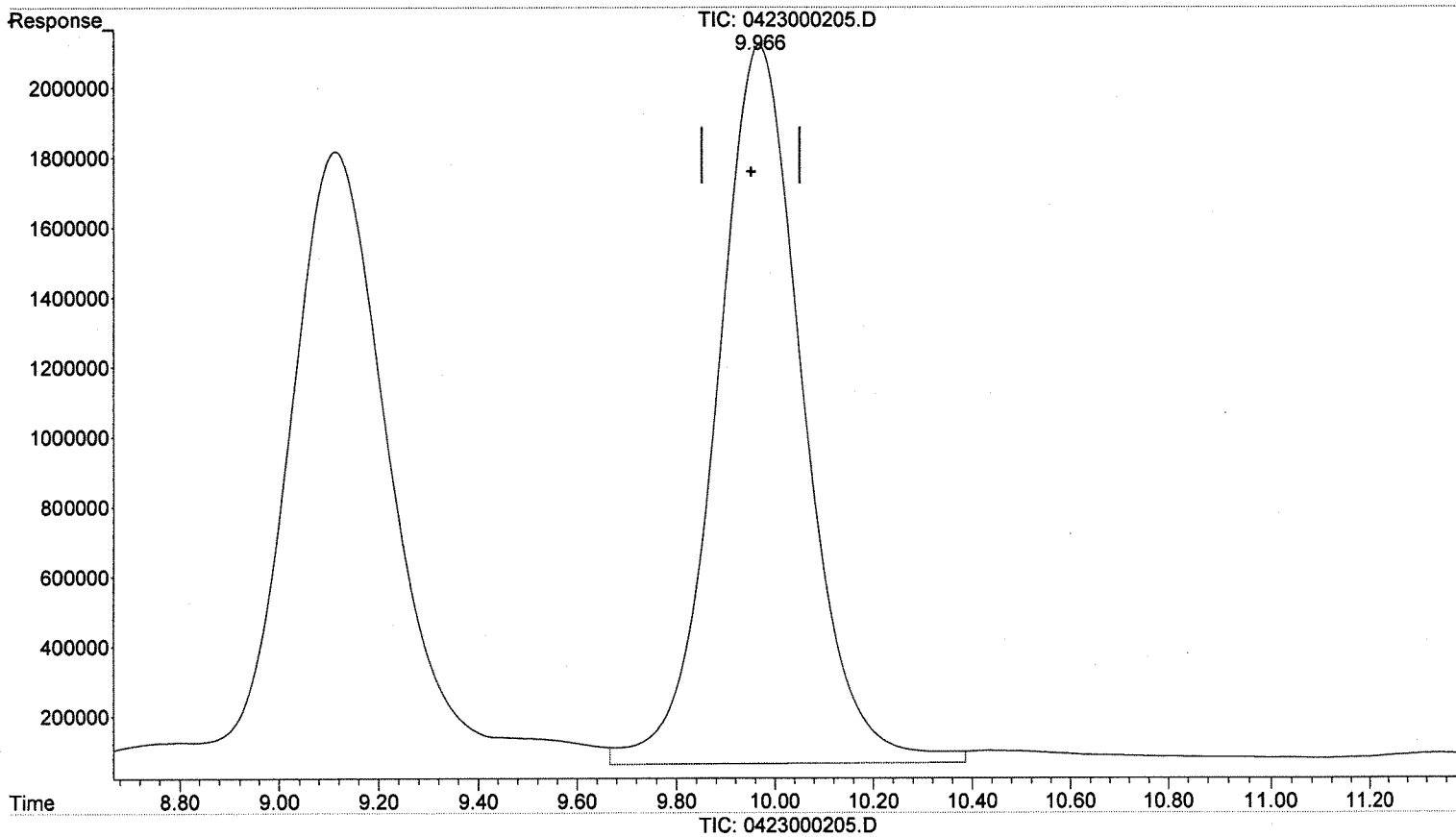
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000205.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 23:52:03  
Operator : CFS  
Sample : KWG1503332-3 LCS  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:45 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.966min 555.821 ug/L  
response 25173656

Manual Integration:

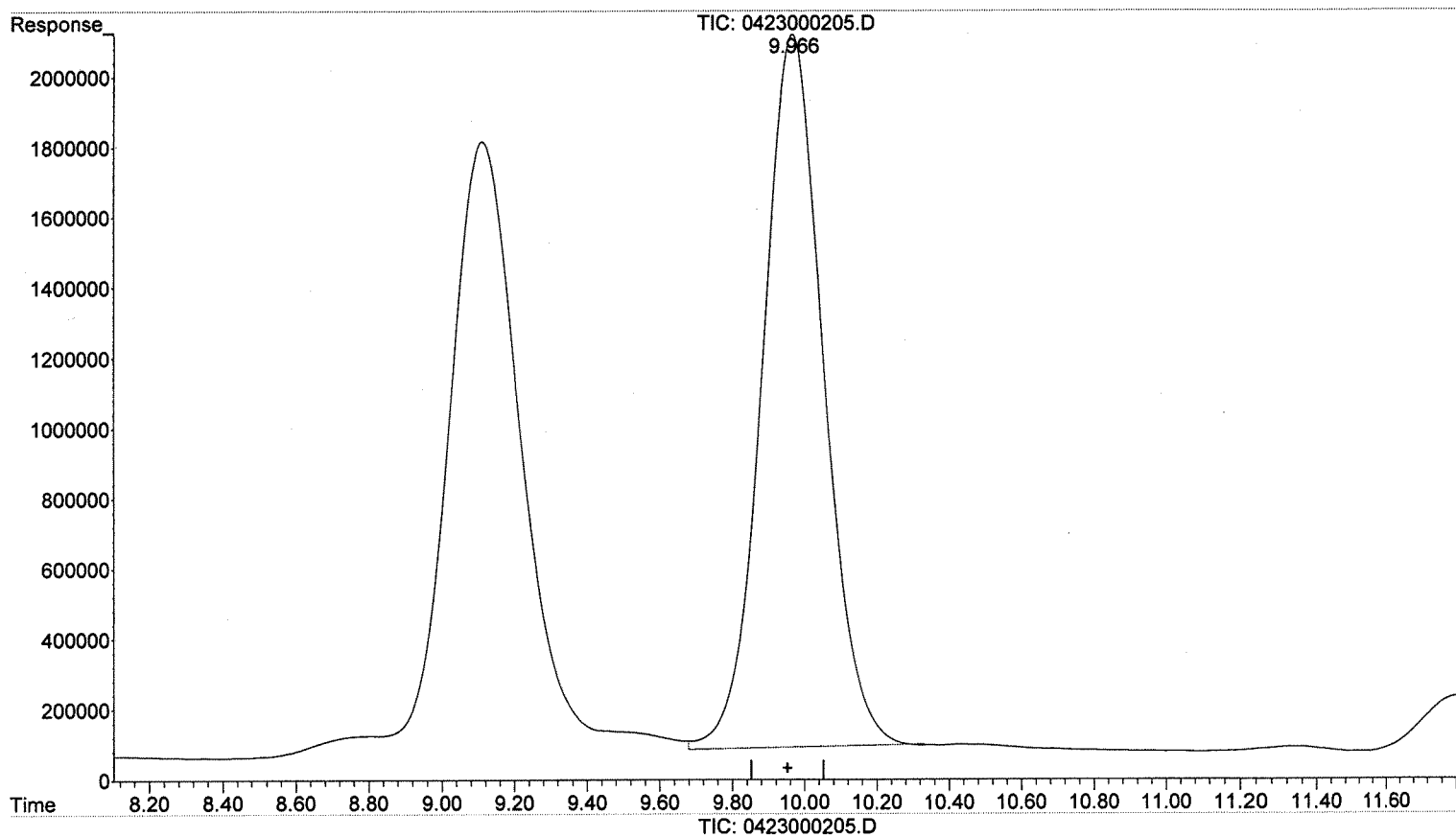
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000205.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 23:52:03  
Operator : CFS  
Sample : KWG1503332-3 LCS  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:45 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



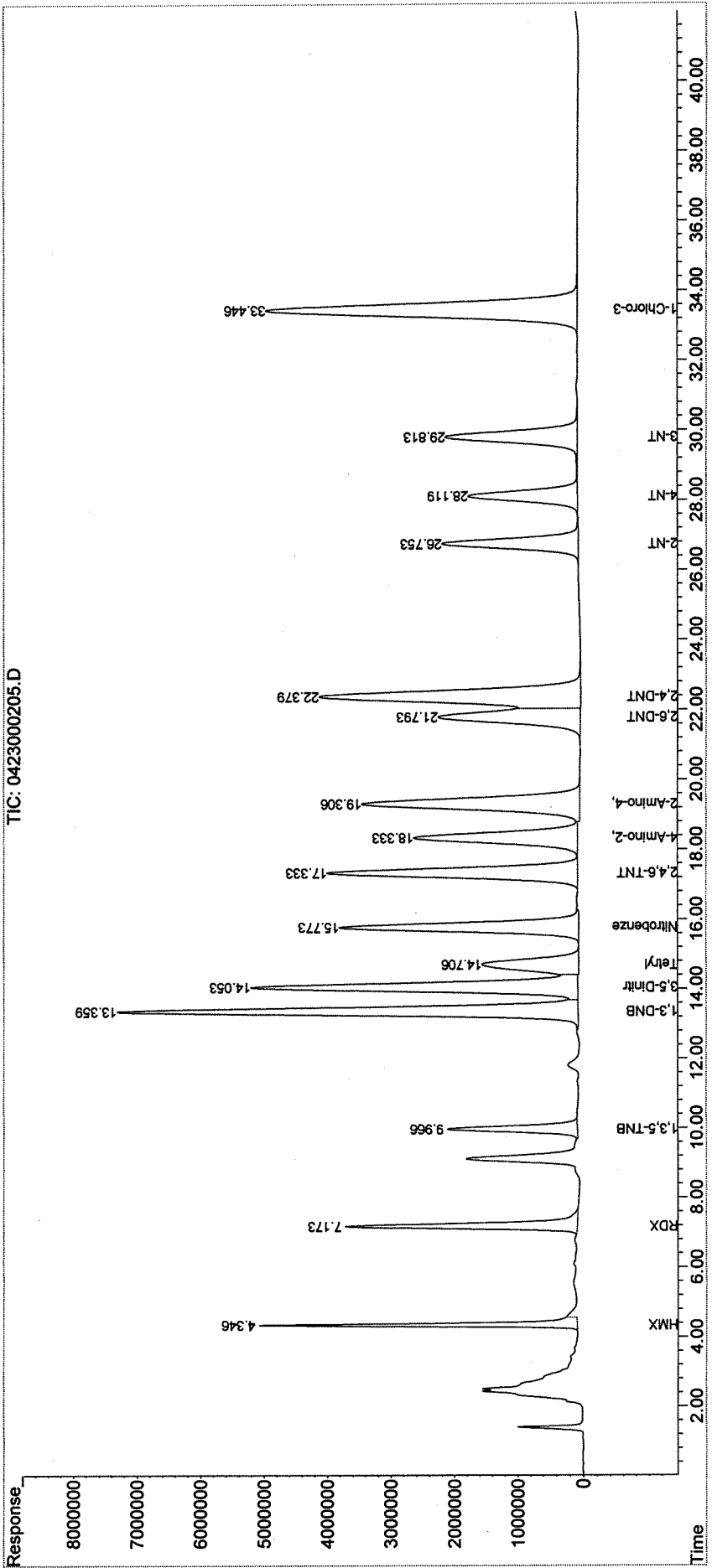
(3) 1,3,5-TNB (T)  
9.966min 527.030 ug/L m  
response 23869691

Manual Integration:  
After  
BLC  
05/01/15 *[Signature]*

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000205.D  
 Signal(s) : DAD1A.ch  
 Acq On : 23-Apr-2015, 23:52:03  
 Operator : CFS  
 Sample : KWG1503332-3 LCS  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 10:35:22 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CALL3891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000205.D  
**Lab ID:** KWG1503332-3  
**RunType:** LCS  
**Matrix:** WATER

**Date Acquired:** 04/23/2015 23:52  
**Date Quantitated:** 05/12/2015 09:03  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: lu 5/12/15

Secondary Review: QA 5/12/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\210\0423000205.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/23/2015 23:52	<b>Quant Date:</b>	05/12/2015 09:03
<b>Run Type:</b>	LCS	<b>Vial:</b>	52
<b>Lab ID:</b>	KWG1503332-3	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>		<b>Tier:</b>		<b>Matrix:</b>	WATER
<b>Prod Code:</b>	8330B NitramAro	<b>Collect Date:</b>		<b>Receive Date:</b>	04/20/2015

<b>Analysis Lot:</b>	KWG1503922	<b>Prep Lot:</b>	KWG1503332	<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>	METHOD		
<b>Prep Ref:</b>	1427797	<b>Prep Date:</b>	04/20/2015		

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13892
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>	J:\LC10\DATA\042315X\210\0423000204.D	<b>Quant based on Method</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Q	Rpt?
1-Chloro-3-nitrobenzene	33.45	0.01	329621667	3,972	79	23-98	OK	NR

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
Nitroglycerin	15.77		69457952	1,677	6.71		
Pentaerythritol Tetranitrate	29.81	0.01	99347394	1,698	6.79		

**Prep Amount:** 1000 ml      **Dilution:** 1.0  
**Prep Final Vol:** 4.0 ml      **Unit Factor:** 1

**Final Concentration** = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000205.D  
 Signal(s) : DAD1B.ch  
 Acq On : 23-Apr-2015, 23:52:03  
 Operator : CFS  
 Sample : KWG1503332-3 LCS  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:03:34 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.446f	329621667	3972.224 ug/L
Target Compounds			
1) T Nitroglycerin	15.773	69457952	1676.711 ug/L
2) T PETN	29.813	99347394	1697.537 ug/L
-----			

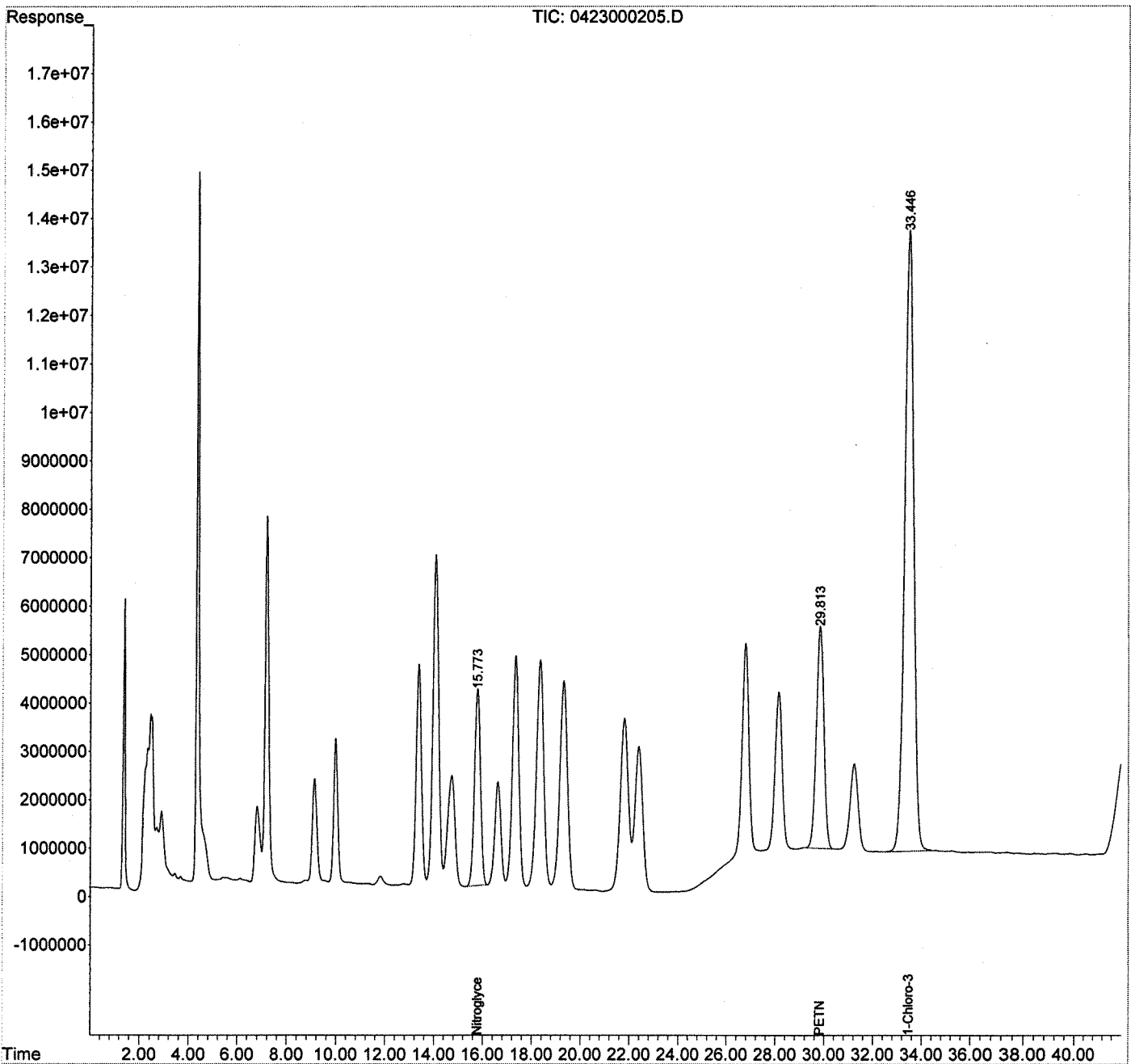
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000205.D  
Signal(s) : DAD1B.ch  
Acq On : 23-Apr-2015, 23:52:03  
Operator : CFS  
Sample : KWG1503332-3 LCS  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:03:34 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



**Date:** 3/12/2015

**Columbia Analytical Services, Inc.**

**ICAL Date:** 3/12/2015

**By:** SJ

**Injection Log**

CAL 13892 (210)  
**ICAL ID:** CAL 13891 (254)

**Stealth ID:** NA

**LC10 - Agilent 1260**

**LIMS ID:** NA

**2nd Review:** M/24/15

**Column:** Phenomenex Synergi Hydro-RP 80A SN 691775-15 **Current BP:** 180

**Mobile Phases A:** MeOH Lot#: 54212 **B:** ACN Lot#: 54164 **C:** H<sub>2</sub>O Lot#: 54220 **D:** NA

	Sample Name	File Name	Method	Dilution	R	Comments
1	PRIMER	0312000101	8330BX.M	NA		
2	IB	0312000102	8330BX.M	NA		
3	14-OLC-01-52A 20ppb	0312000103	8330BX.M	NA	X	NR was replaced
4	14-OLC-01-52B 50ppb	0312000104	8330BX.M	NA	X	
5	14-OLC-01-52C 100ppb	0312000105	8330BX.M	NA	X	
6	14-OLC-01-52D 200ppb	0312000106	8330BX.M	NA	X	
7	14-OLC-01-52E 500ppb	0312000107	8330BX.M	NA	X	NR suspected dilution error.
8	14-OLC-01-52F 1000ppb	0312000108	8330BX.M	NA	X	
9	14-OLC-01-52G 2000ppb	0312000109	8330BX.M	NA	X	
10	14-OLC-01-52H 5000ppb	0312000110	8330BX.M	NA	X	
11	14-OLC-01-52I 10000ppb	0312000111	8330BX.M	NA	X	
12	14-OLC-01-52J 20000ppb	0312000112	8330BX.M	NA	X	
13	IB	0312000113	8330BX.M	NA		
14	14-OLC-01-52K 1000ppb ICV	0312000114	8330BX.M	NA	X	NR rerun after a re-run of the 10ppb point.
15	IB	0312000115	8330BX.M	NA		
16	IB	0312000116	8330BX.M	NA		
17	CLEAN	0312000117	8330BX.M	NA		
18	CLEAN	0312000118	8330Cleanup.M	NA		

Q = RT update



**Date:** 3/16/2015

**Columbia Analytical Services, Inc.**

**ICAL Date:** 3/12/2015

**By:** SJ

# Injection Log

CAL 13892 (210)  
ICAL ID: CAL 13891 (254)

**Stealth ID:** NA

## LC10 - Agilent 1260

**LIMS ID:** NA

**2nd Review:** M/L 3/24/15

**Column:** Phenomenex Synergi Hydro-RP 80A SN 691775-15

**Current BP:** 180

**Mobile Phases** **A:** MeOH Lot#: 54212 **B:** ACN Lot#: 54164 **C:** H<sub>2</sub>O Lot#: 54220 **D:** NA

	Sample Name	File Name	Method	Dilution	R	Comments
1	PRIMER	0316000101	8330BX.M	NA		
2	PRIMER	0312000102	8330BX.M	NA		
3	IB	0312000103	8330BX.M	NA	X	NR
4	14-OLC-01-52L 20PPB	0312000104	8330BX.M	NA	X	
5	IB	0312000105	8330BX.M	NA	X	
6	IB	0312000106	8330BX.M	NA	X	
7	CLEAN	0312000107	8330Cleanup.M	NA	X	
8	CLEAN	0312000108	8330Cleanup.M	NA	X	

Q = RT update



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000102.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 18:04:45  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 14:17:15 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Mon Mar 16 13:56:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L d
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

(f)=RT Delta > 1/2 Window

(m)=manual int.

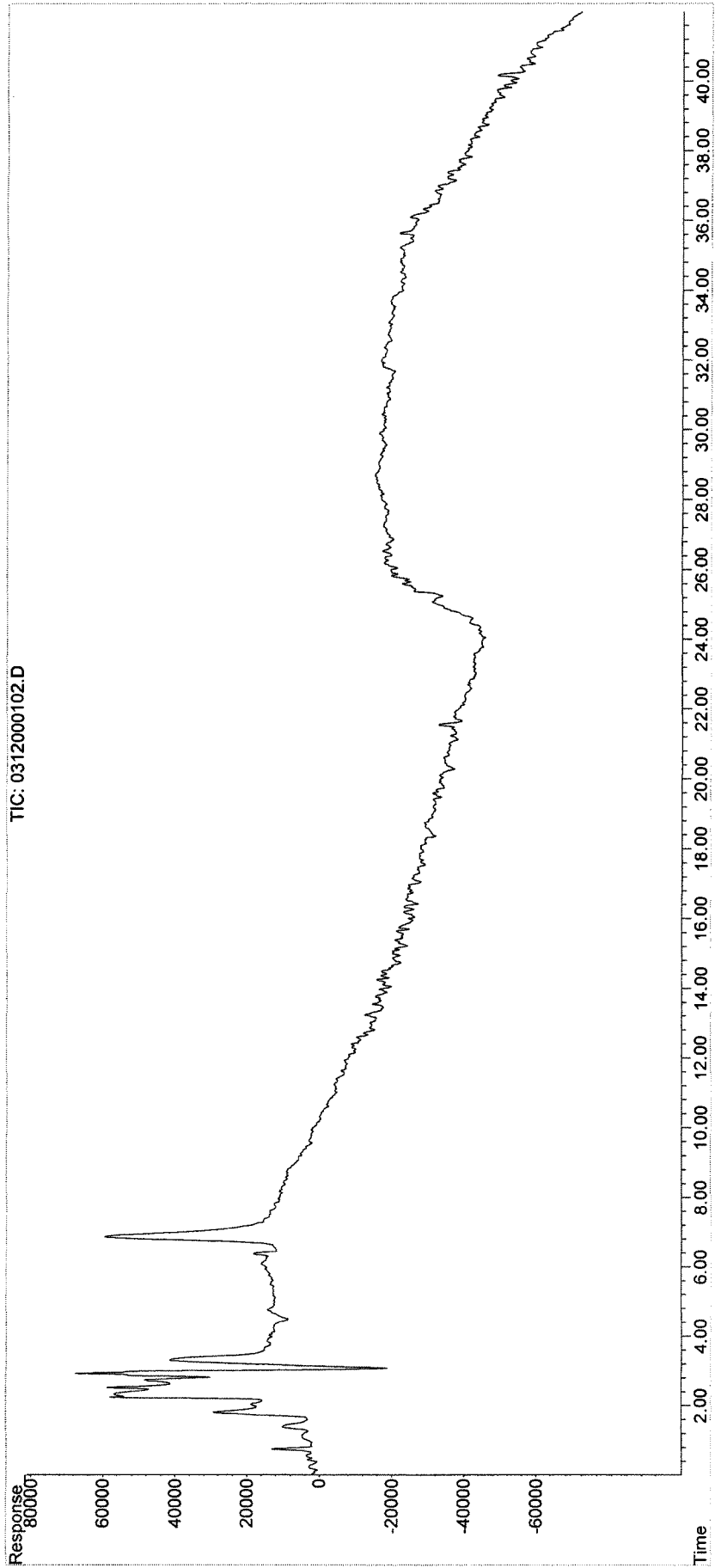
*SJ 3-17-15*

*M/3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000102.D  
Signal(s) : DADIA.ch  
Acq On : 12-Mar-2015, 18:04:45  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 14:17:15 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Mon Mar 16 13:56:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000104.D  
 Signal(s) : DAD1A.ch  
 Acq On : 12-Mar-2015, 19:37:16  
 Operator : SJ  
 Sample : 14-OLC-01-52B 50PPB  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 12:39:30 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 QLast Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.194	1565433	51.983 ug/L m
Target Compounds			
1) T HMX	4.274	774960	50.473 ug/L m
2) T RDX	7.074	1351272	67.189 ug/L m
3) T 1,3,5-TNB	9.914	2230884	50.255 ug/L m
4) T 1,3-DNB	13.288	3132932	51.528 ug/L m
5) T 3,5-Dinitroaniline	13.888	2551110	52.564 ug/L m
6) T Tetryl	14.674	1922490	59.060 ug/L m
7) T Nitrobenzene	15.688	2081287	56.140 ug/L m
8) T 2,4,6-TNT	17.261	2149398	52.093 ug/L m
9) T 4-Amino-2,6-DNT	18.108	1597671	54.157 ug/L m
10) T 2-Amino-4,6-DNT	19.094	1999644	49.803 ug/L m
11) T 2,6-DNT	21.654	1405096	48.182 ug/L m
12) T 2,4-DNT	22.241	2829061	52.067 ug/L m
13) T 2-NT	26.548	1191819	48.986 ug/L m
14) T 4-NT	27.868	1034182	49.618 ug/L m
15) T 3-NT	29.561	1375204	51.474 ug/L m
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

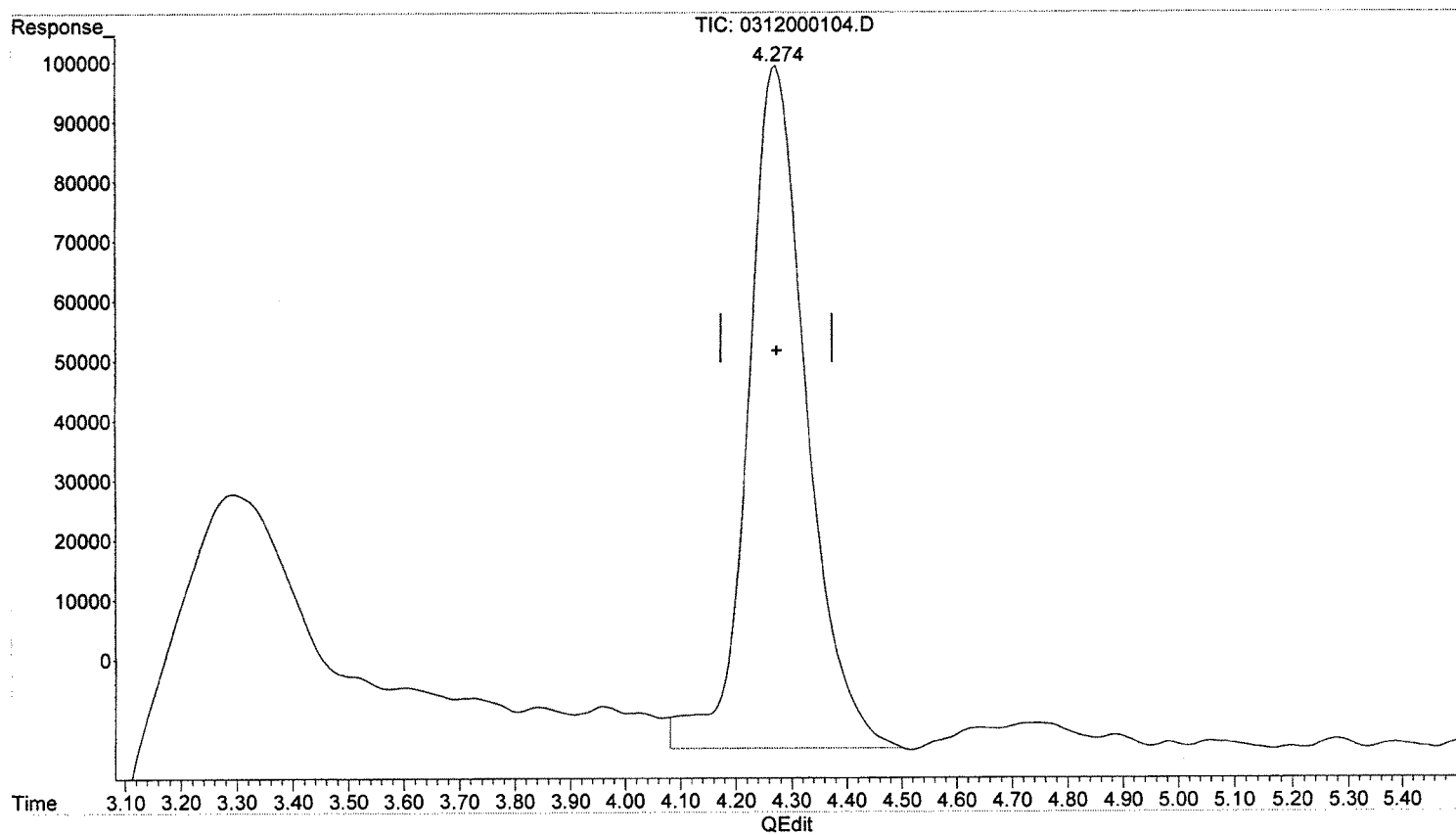
*SJ 3-17-15*

*M 3/14/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



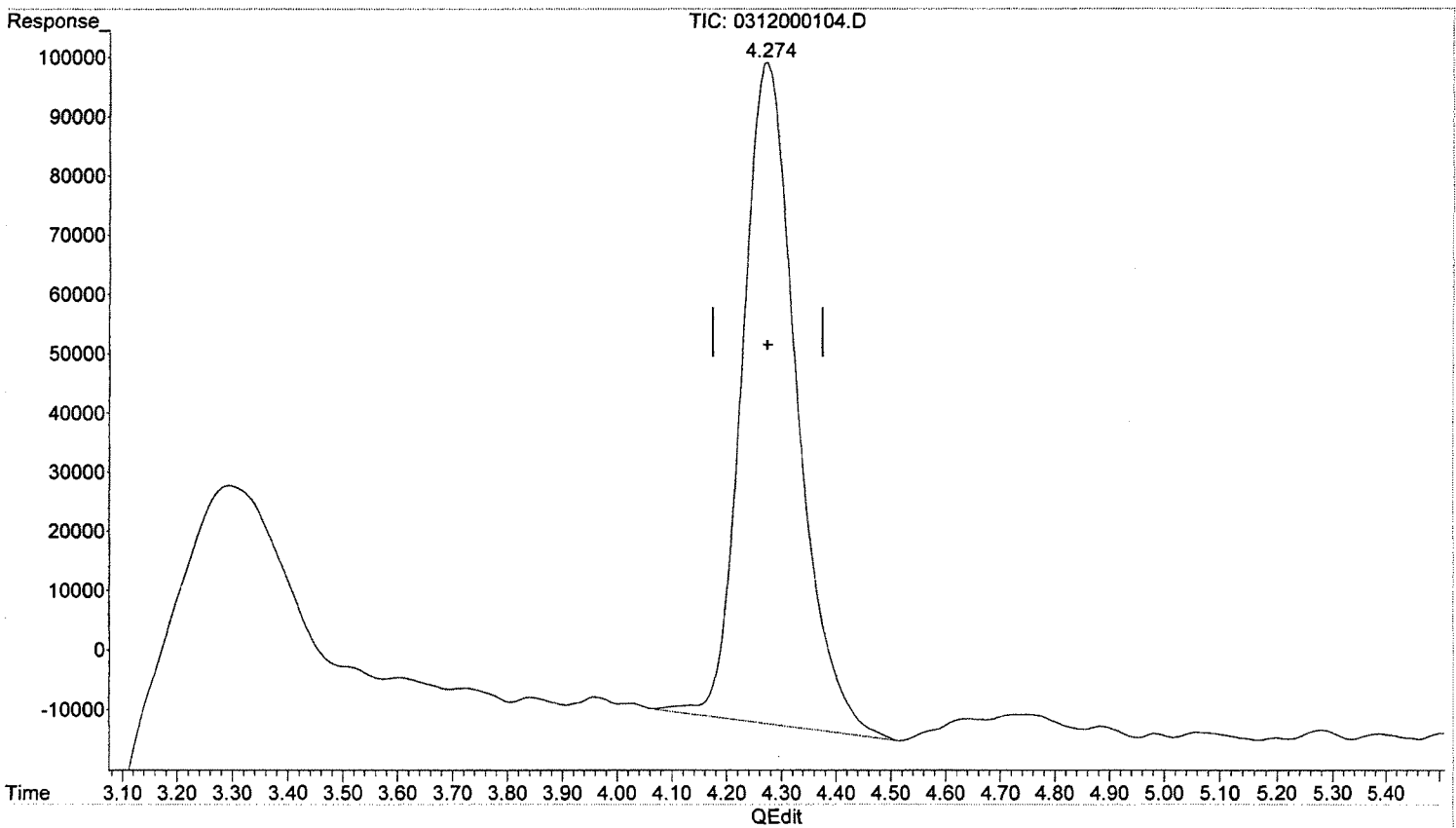
(1) HMX (T)  
4.274min 54.262 ug/L  
response 833133

*SJ 3-17-15*  
*M/L 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.274min 50.473 ug/L m  
response 774960

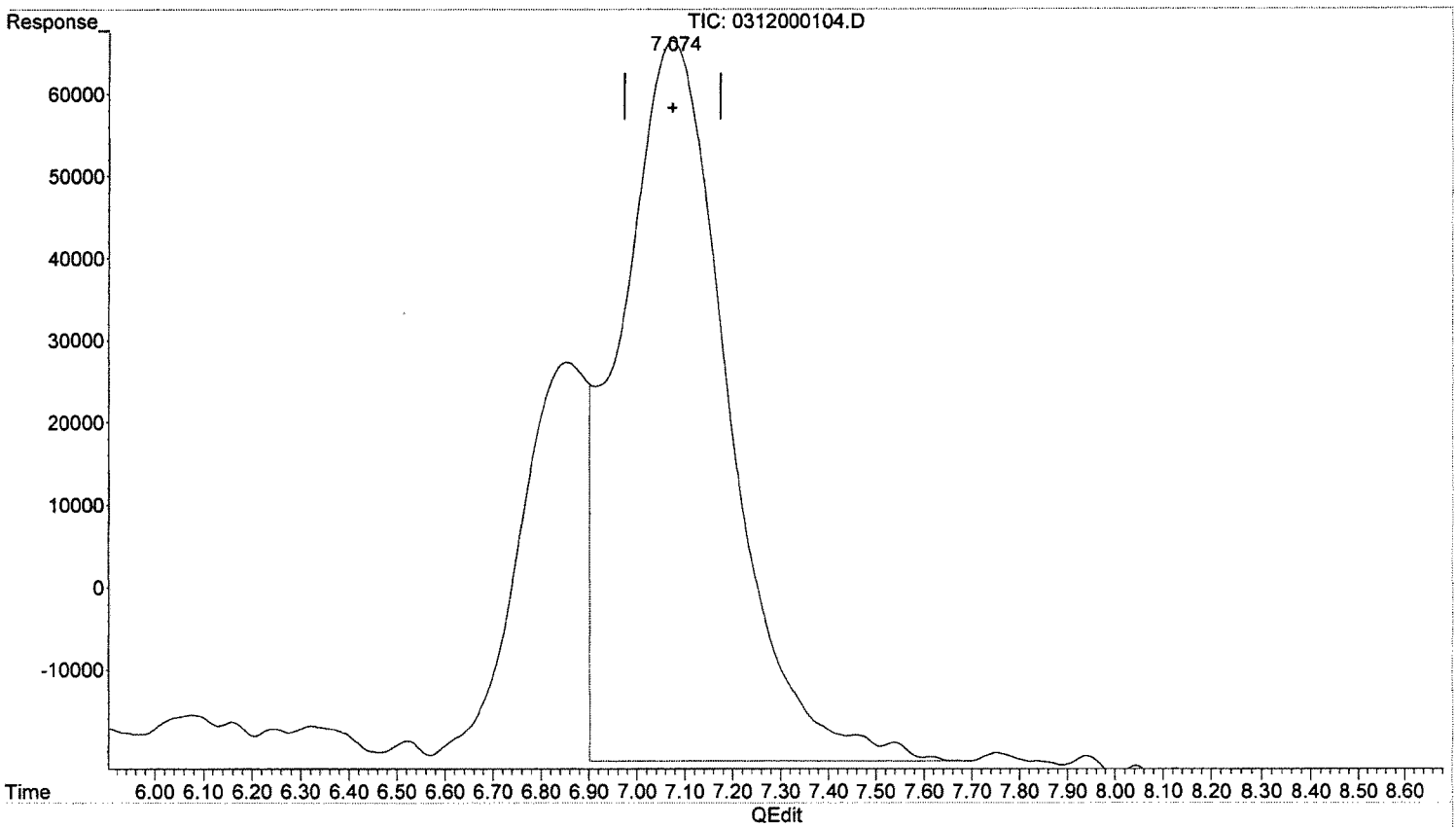
*3/3-17-15*  
*BL*

*3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.074min 68.354 ug/L  
response 1374717

*3-17-15*

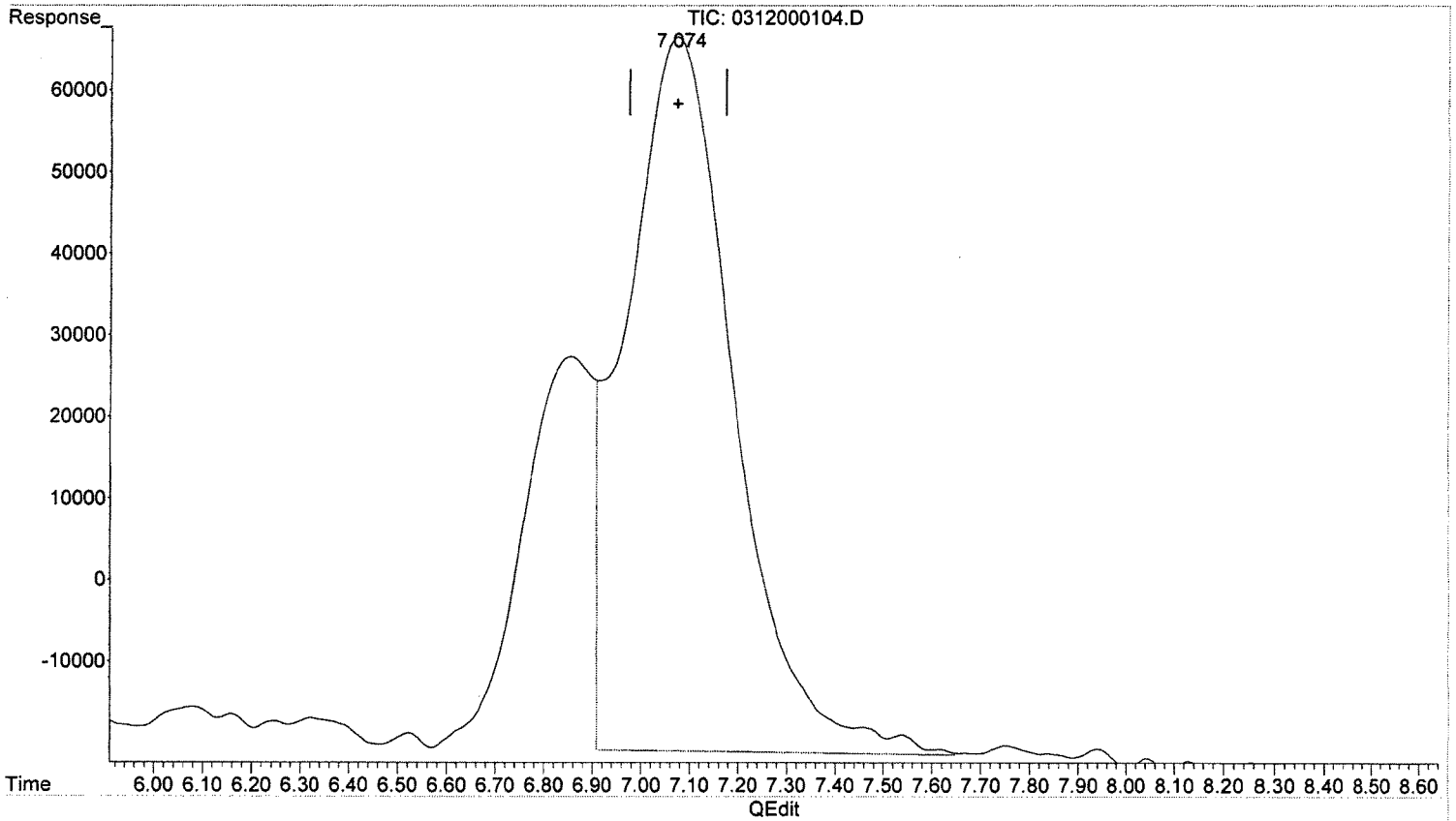
*ML 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.074min 67.189 ug/L m  
response 1351272

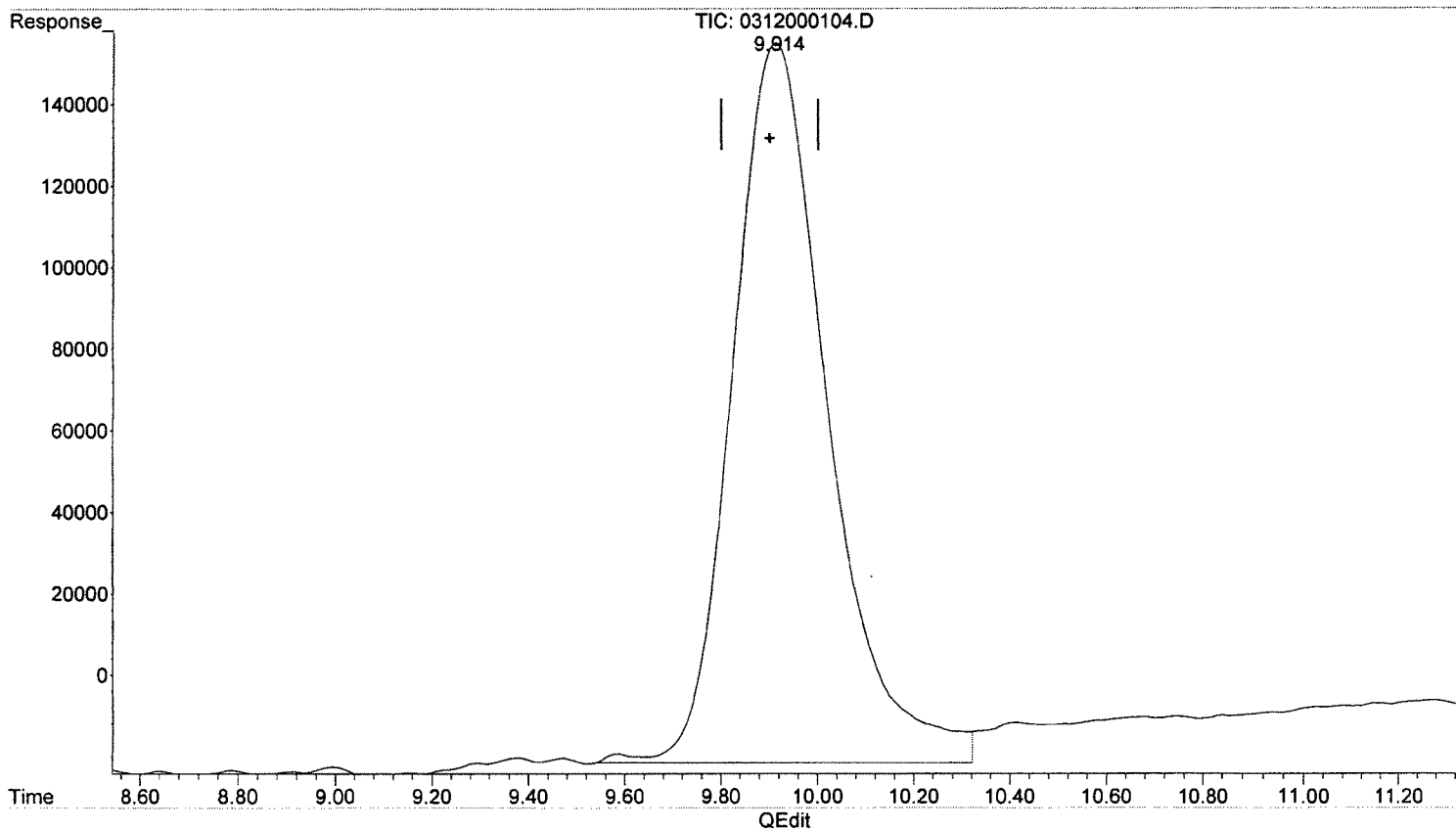
*83-17-15*  
*OB*

*3/12/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.914min 54.390 ug/L  
response 2414422

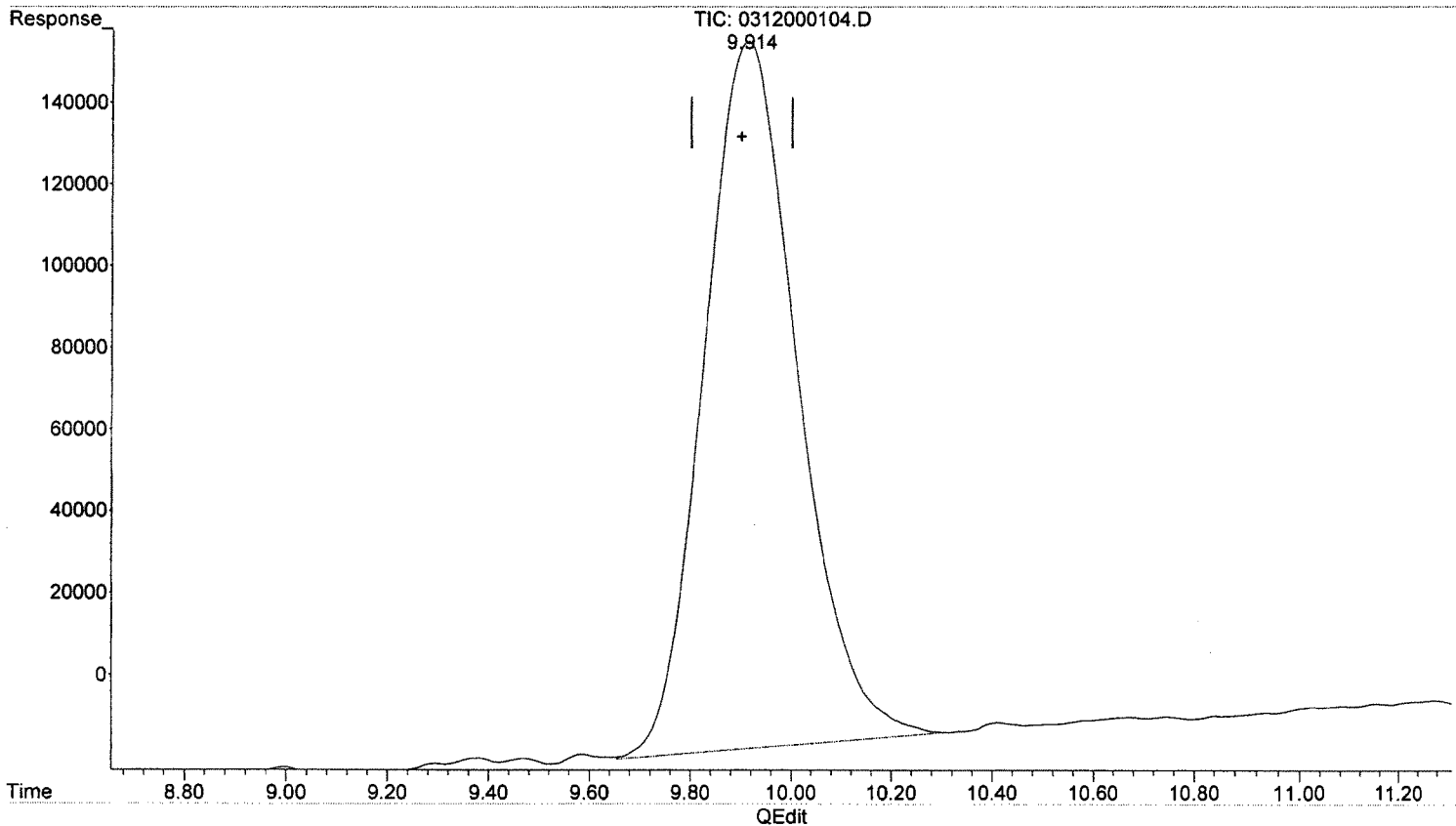
*Sf 3-17-15*

*ML 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.914min 50.255 ug/L m  
response 2230884

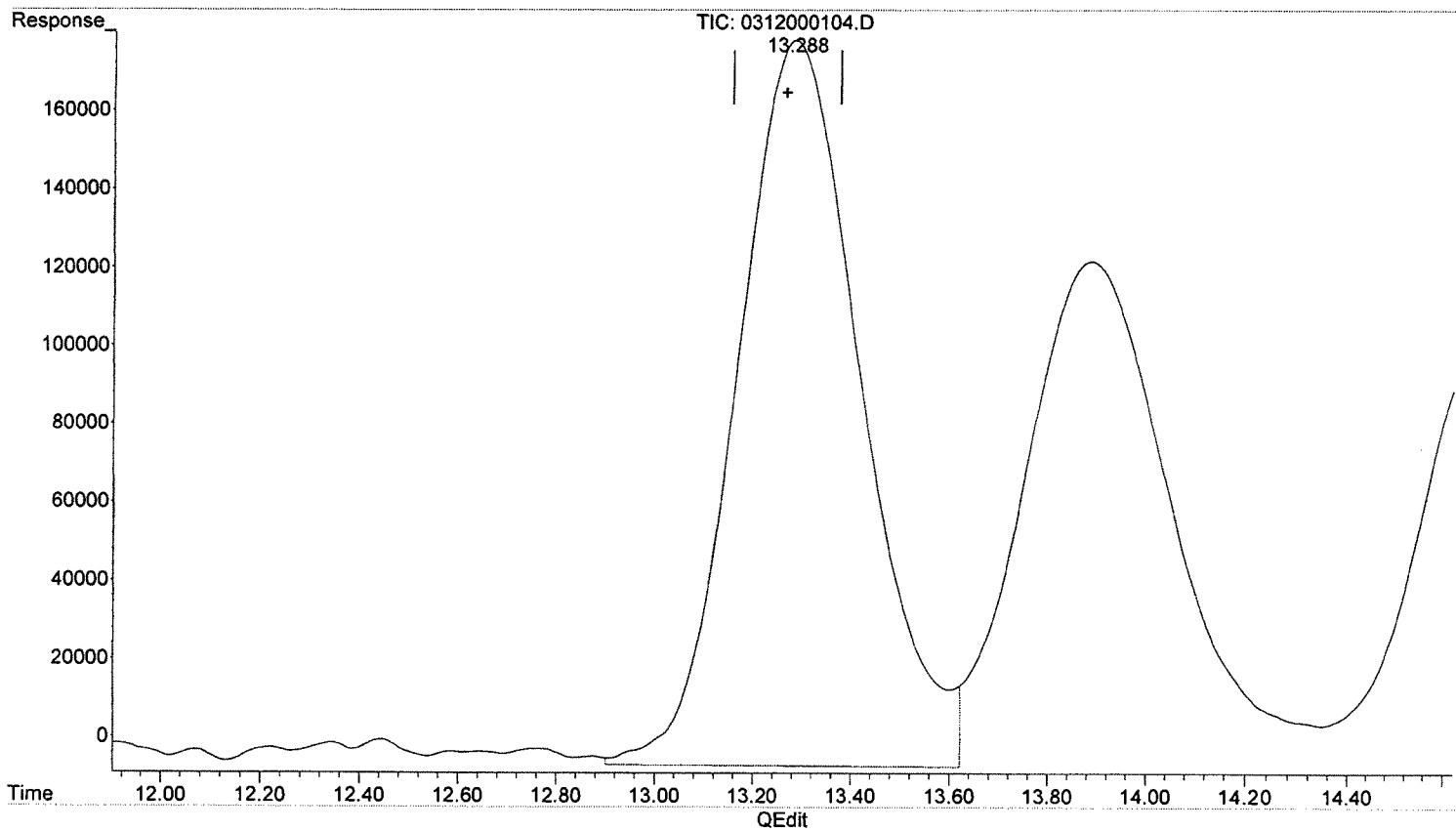
*SJ 3-17-15*  
*BL*

*MH 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.288min 53.404 ug/L  
response 3246984

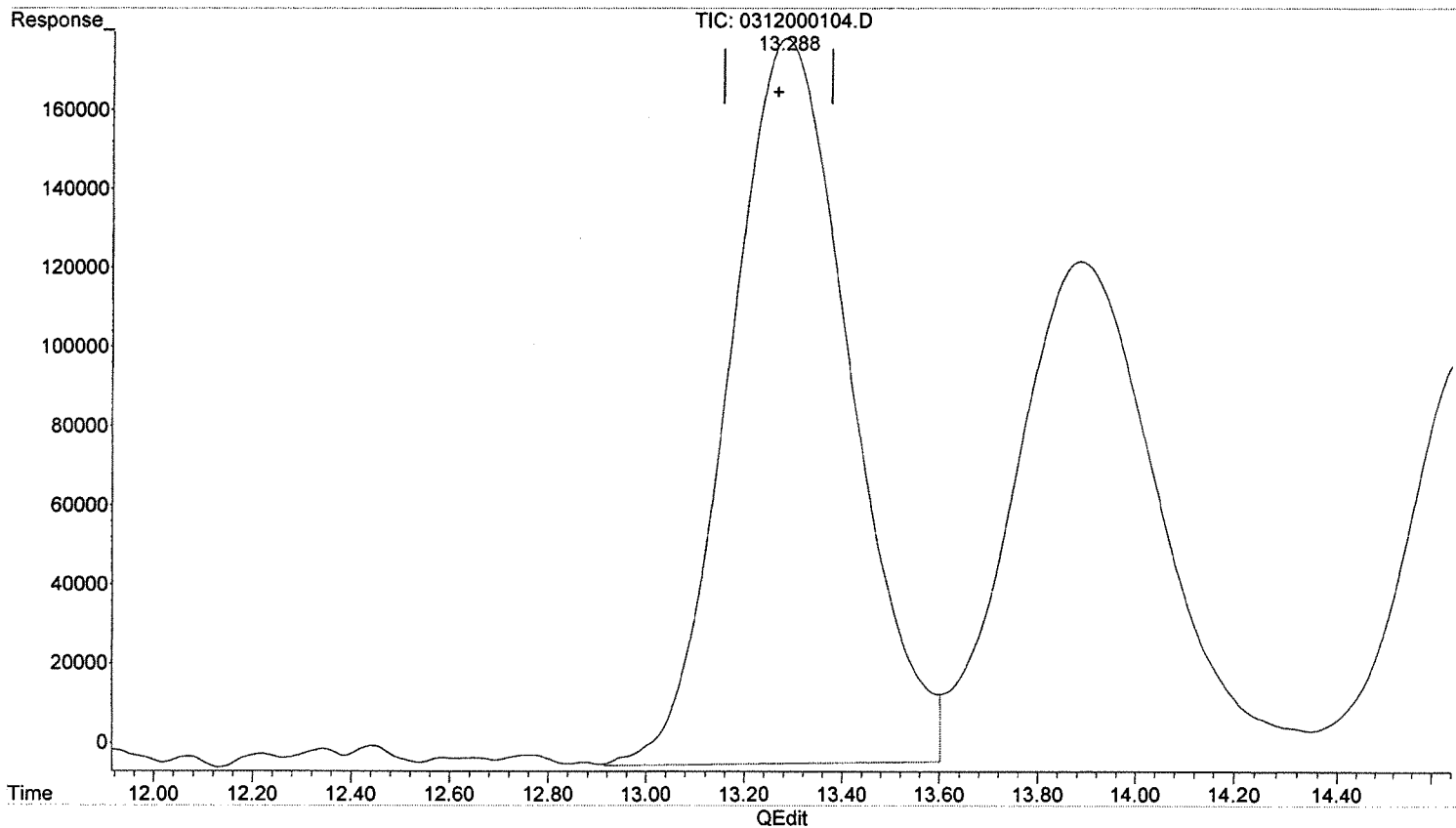
*SJ 3.17.15*

*ref 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.288min 51.528 ug/L m  
response 3132932

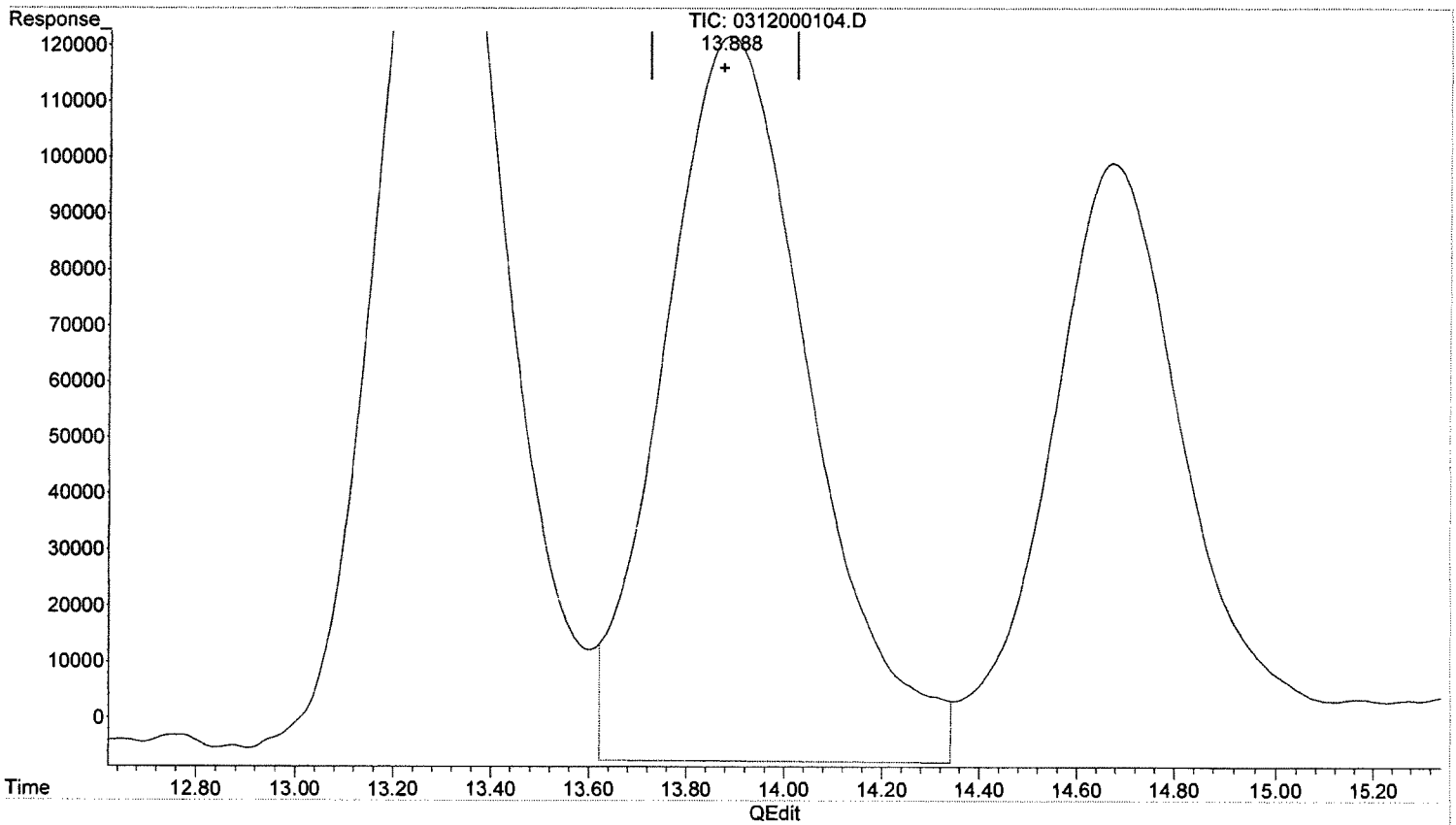
*SJ 3-17-15  
BL*

*upl 3/14/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.888min 55.623 ug/L  
response 2699546

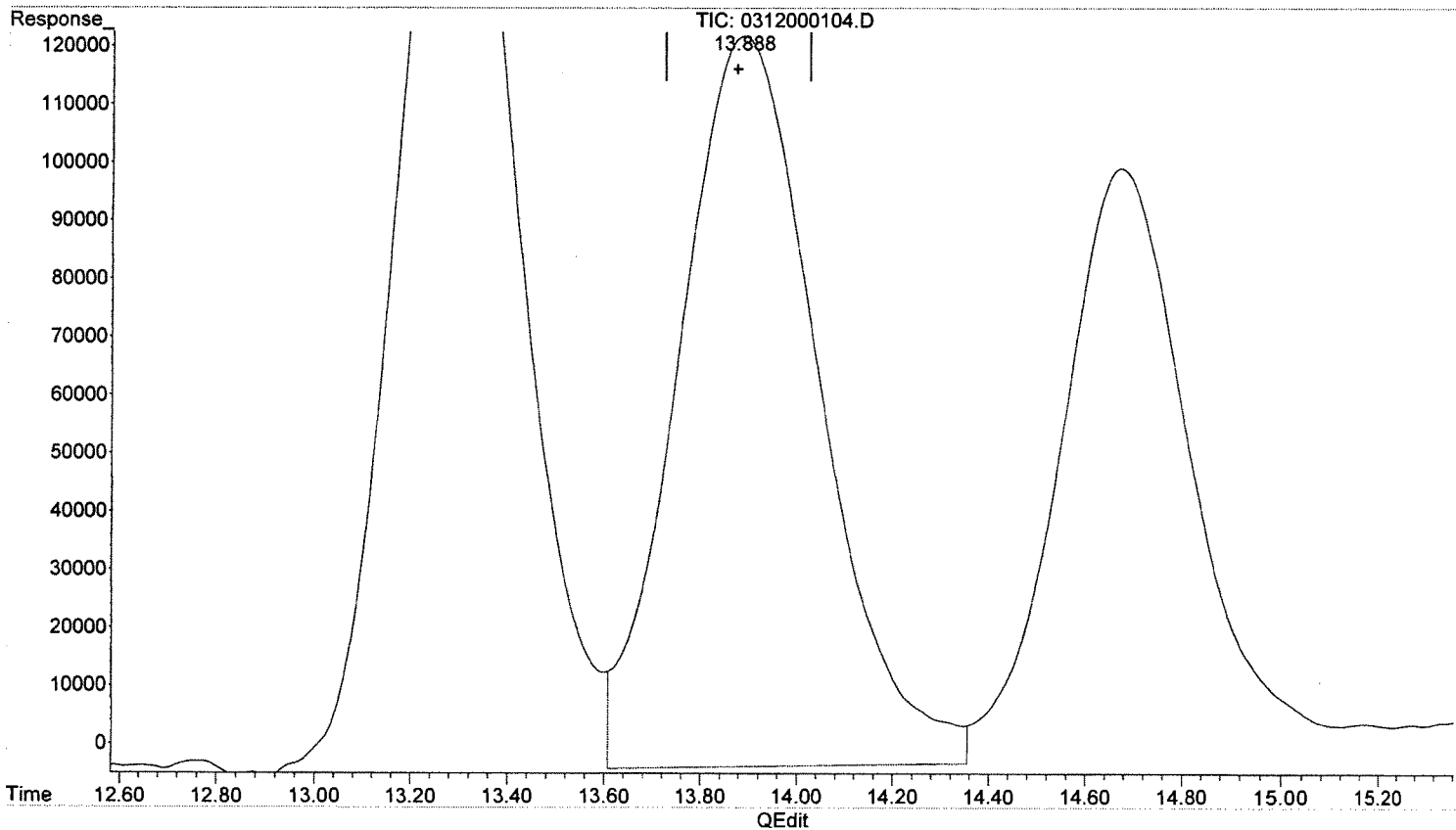
*SJ 3-17-15*  
*BC*  
*3/31/15*  
*EE*

*all 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.888min 52.564 ug/L m  
response 2551110

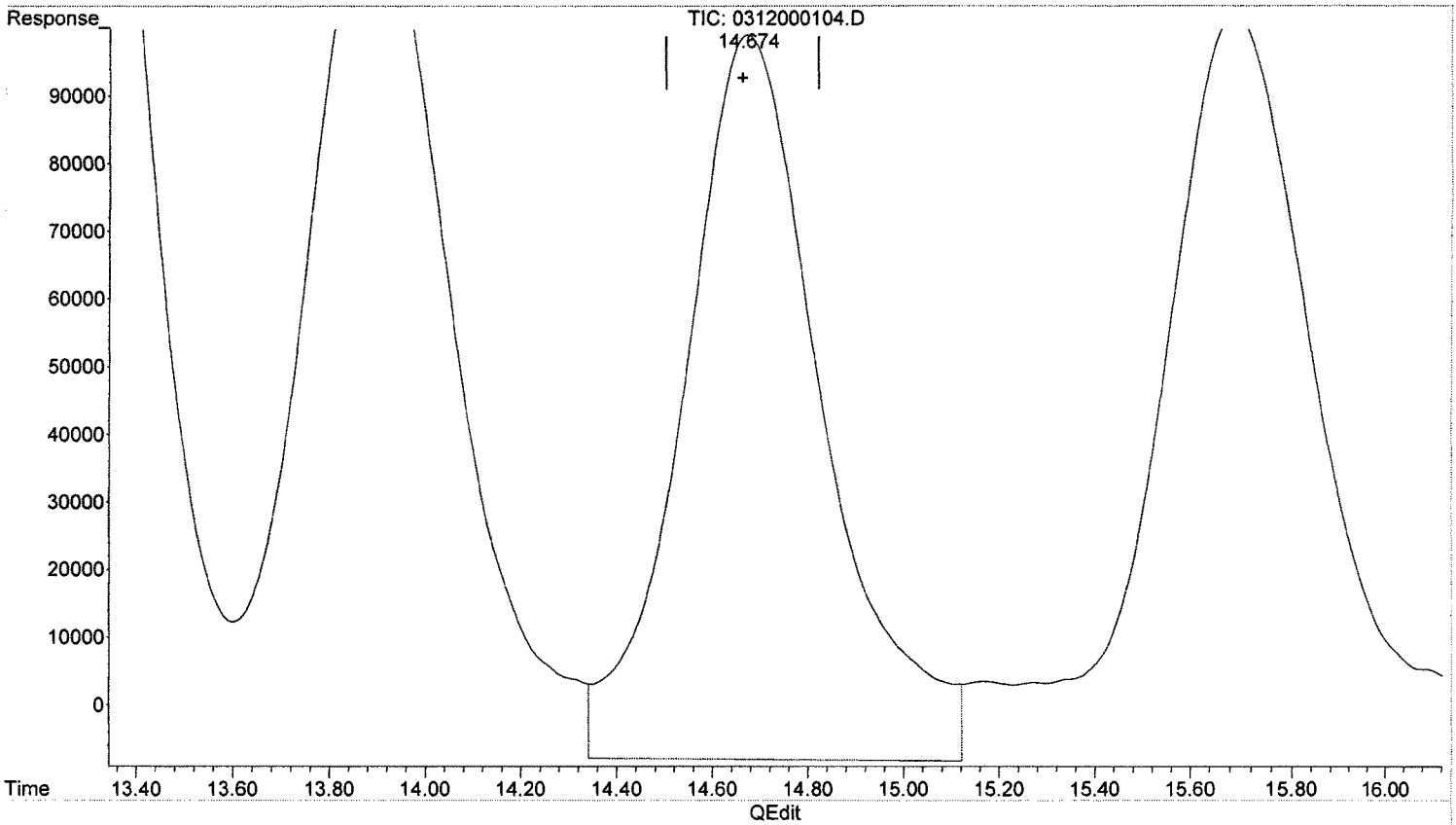
*SJ 3-17-15  
BL*

*ML 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.674min 66.661 ug/L  
response 2169936

*3-17-15*

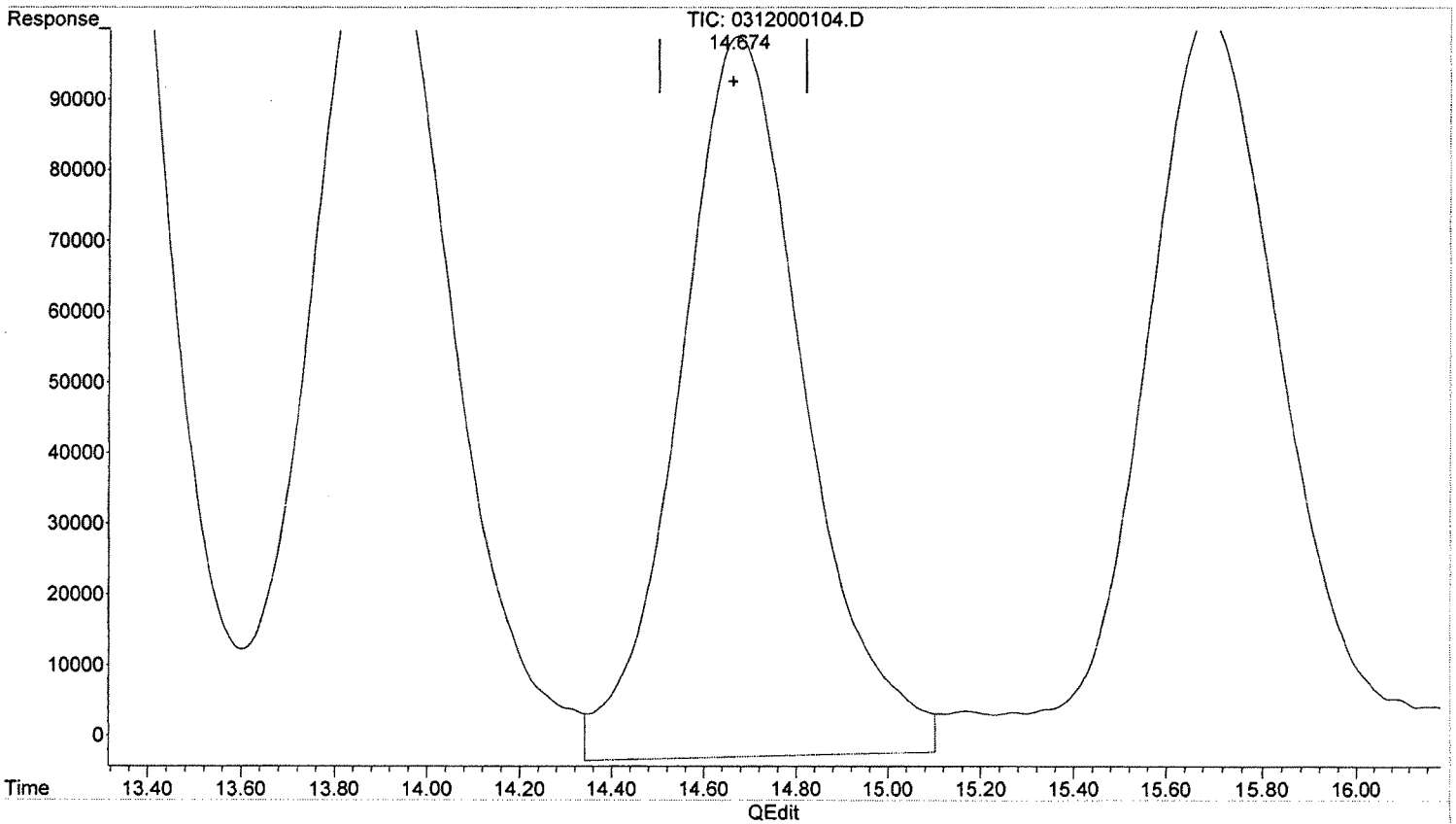
*3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.674min 59.060 ug/L m  
response 1922490

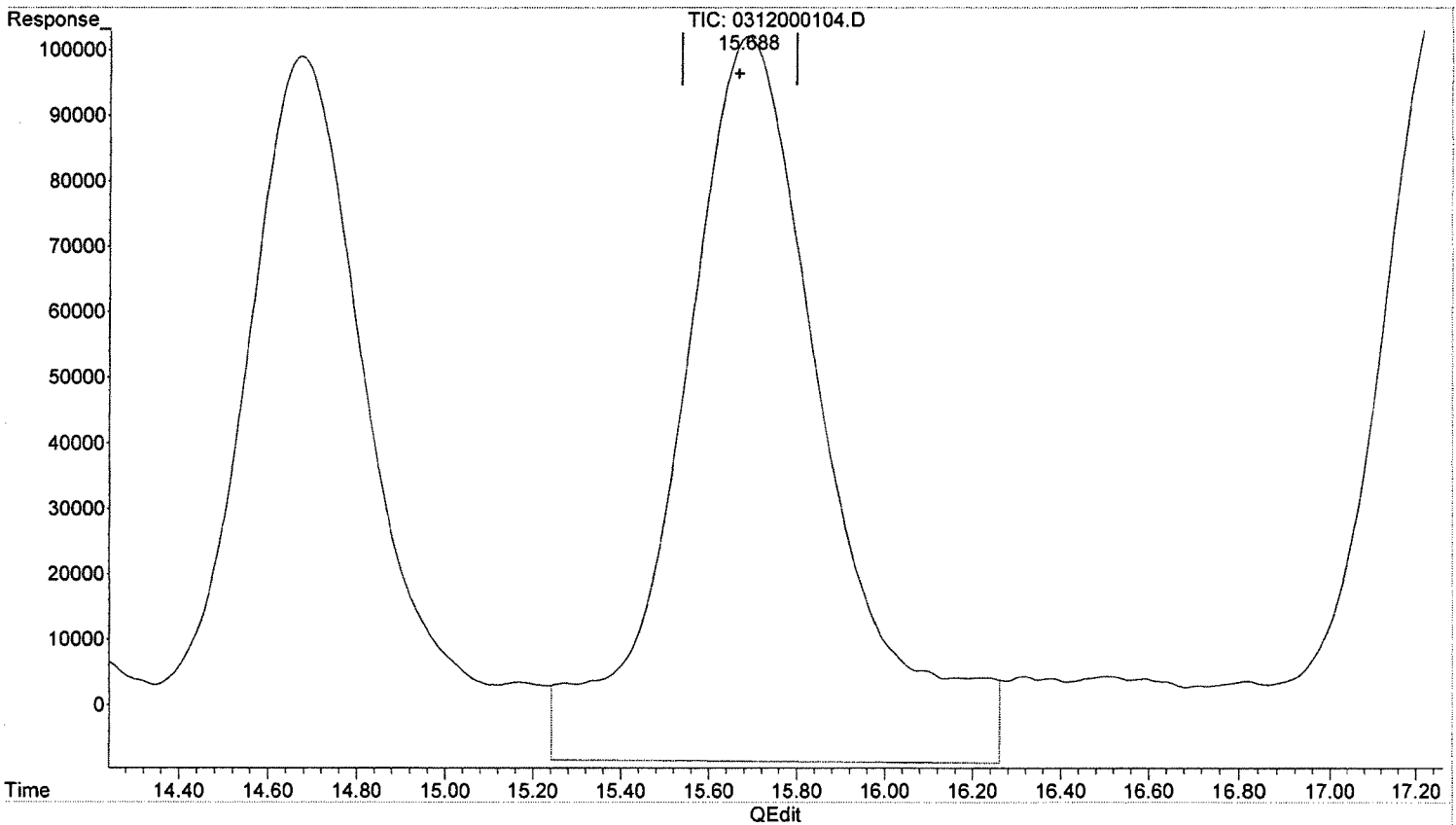
3-17-15  
BL

3/24/15

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.688min 68.652 ug/L  
response 2545143

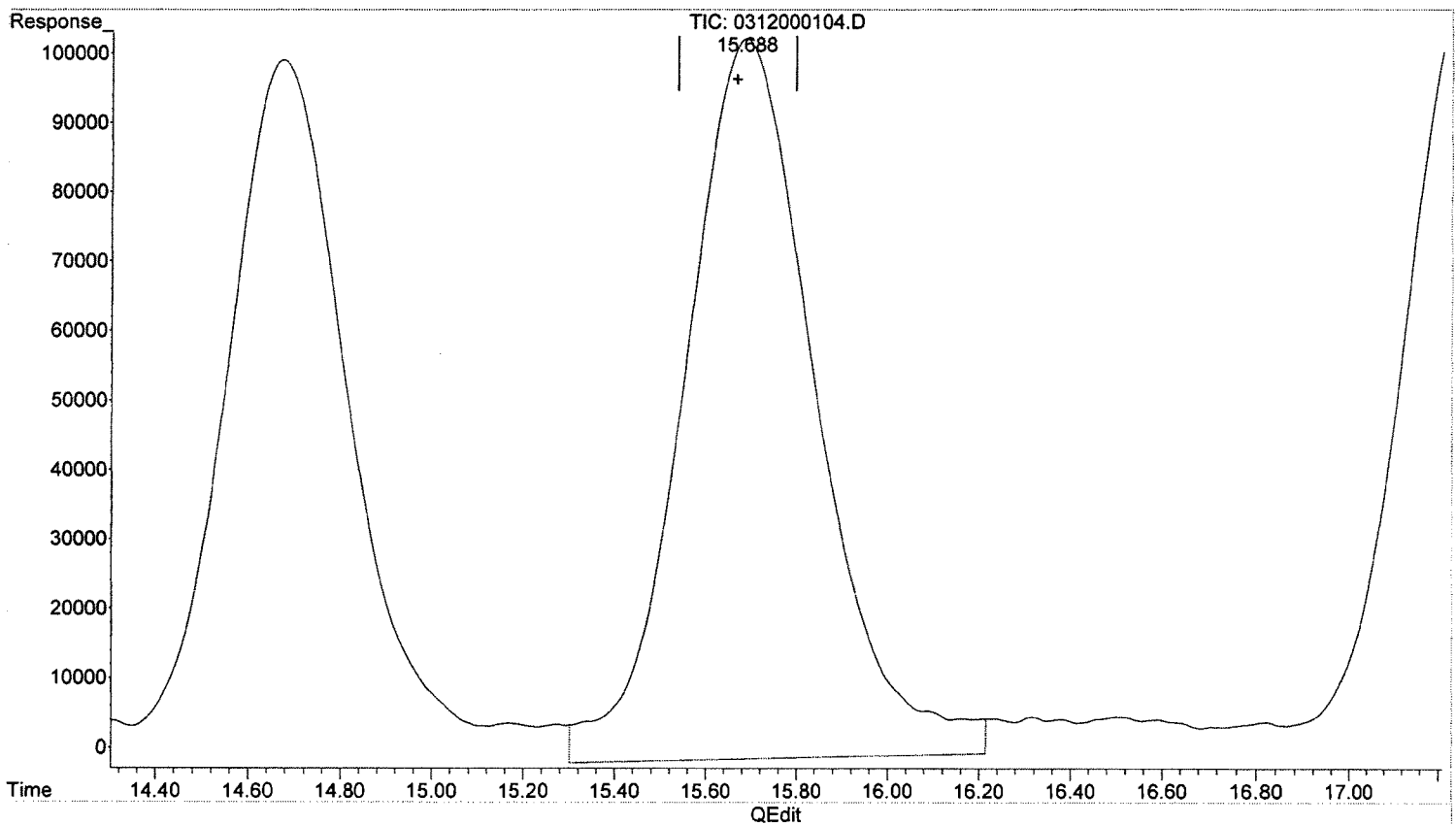
*SJ 3-17-15*

*03/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.688min 56.140 ug/L m  
response 2081287

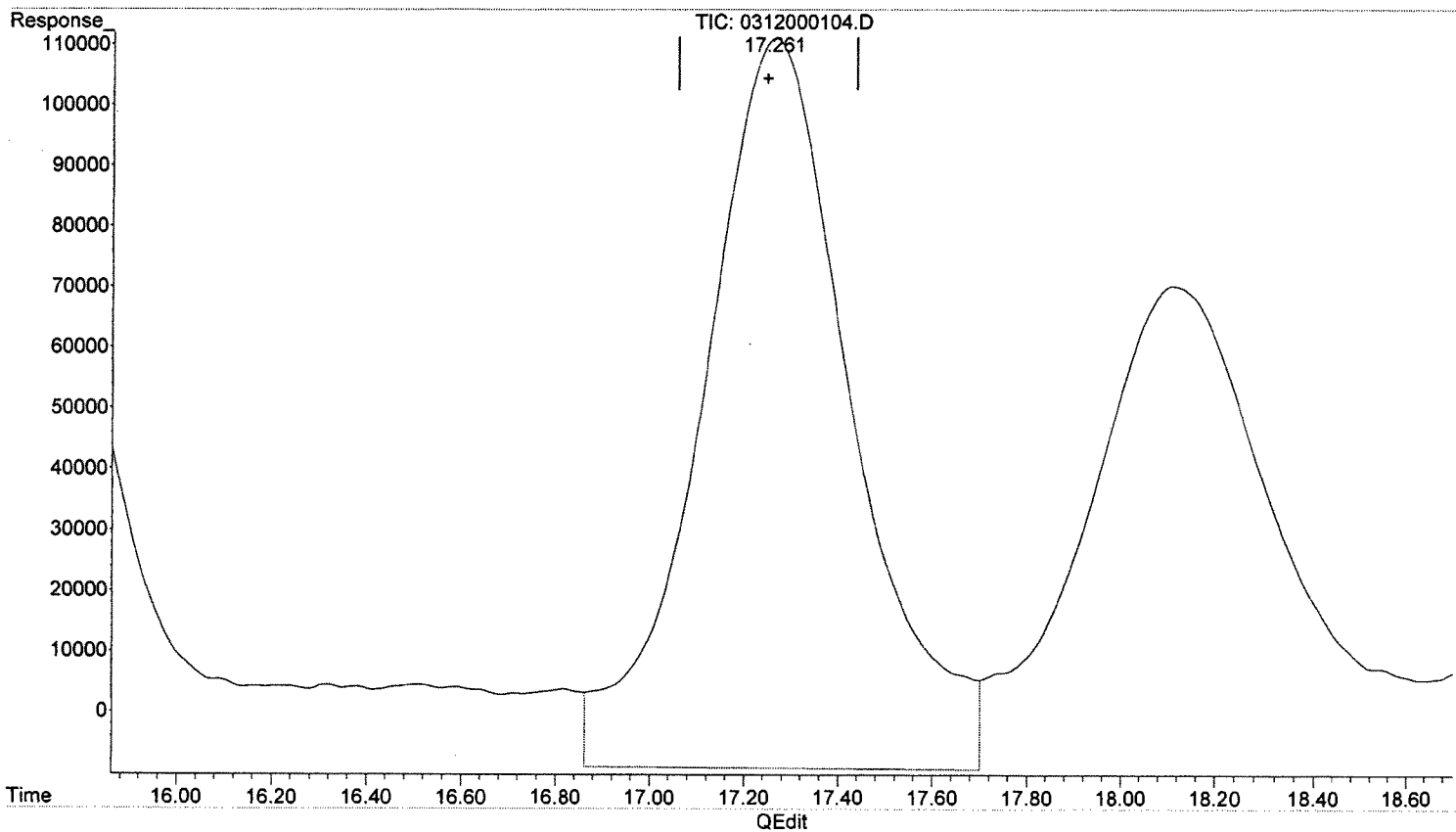
*4/3-17-15  
BL*

*4/3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.261min 64.580 ug/L  
response 2664580

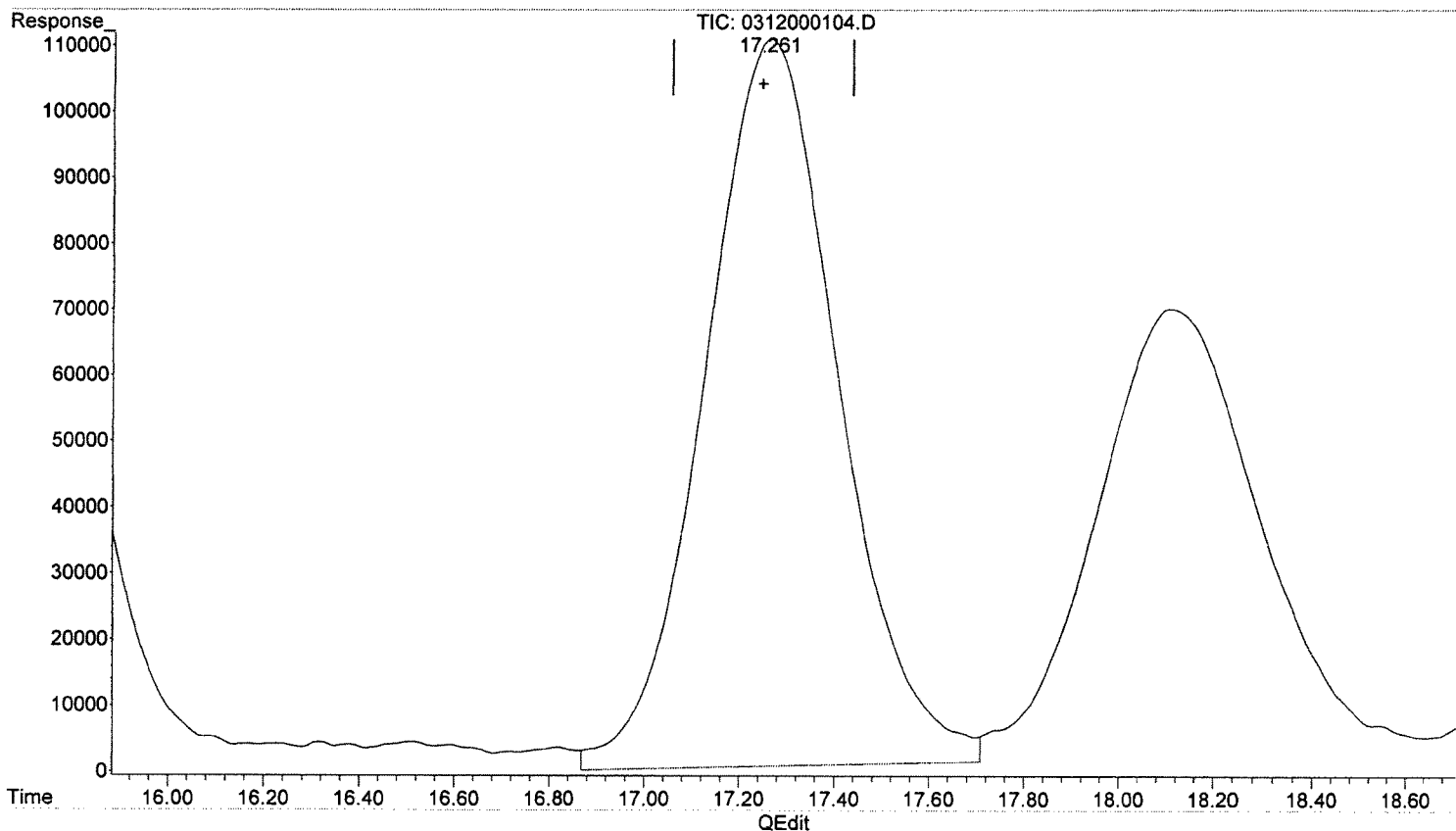
*SJ 3-17-15*

*M/L 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.261min 52.093 ug/L m  
response 2149398

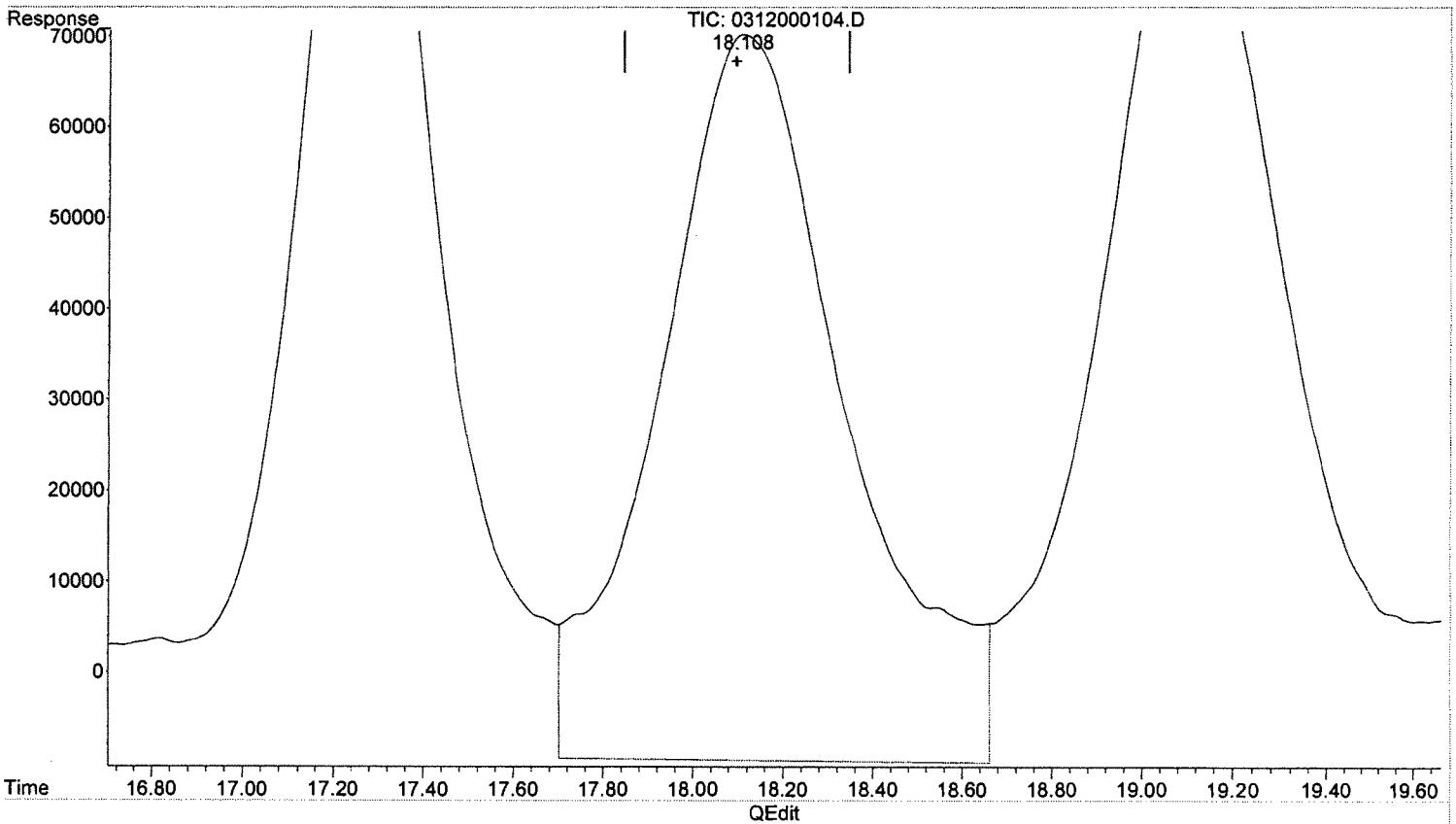
*SJ 3/17/15  
BL*

*M 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.108min 78.211 ug/L  
response 2307280

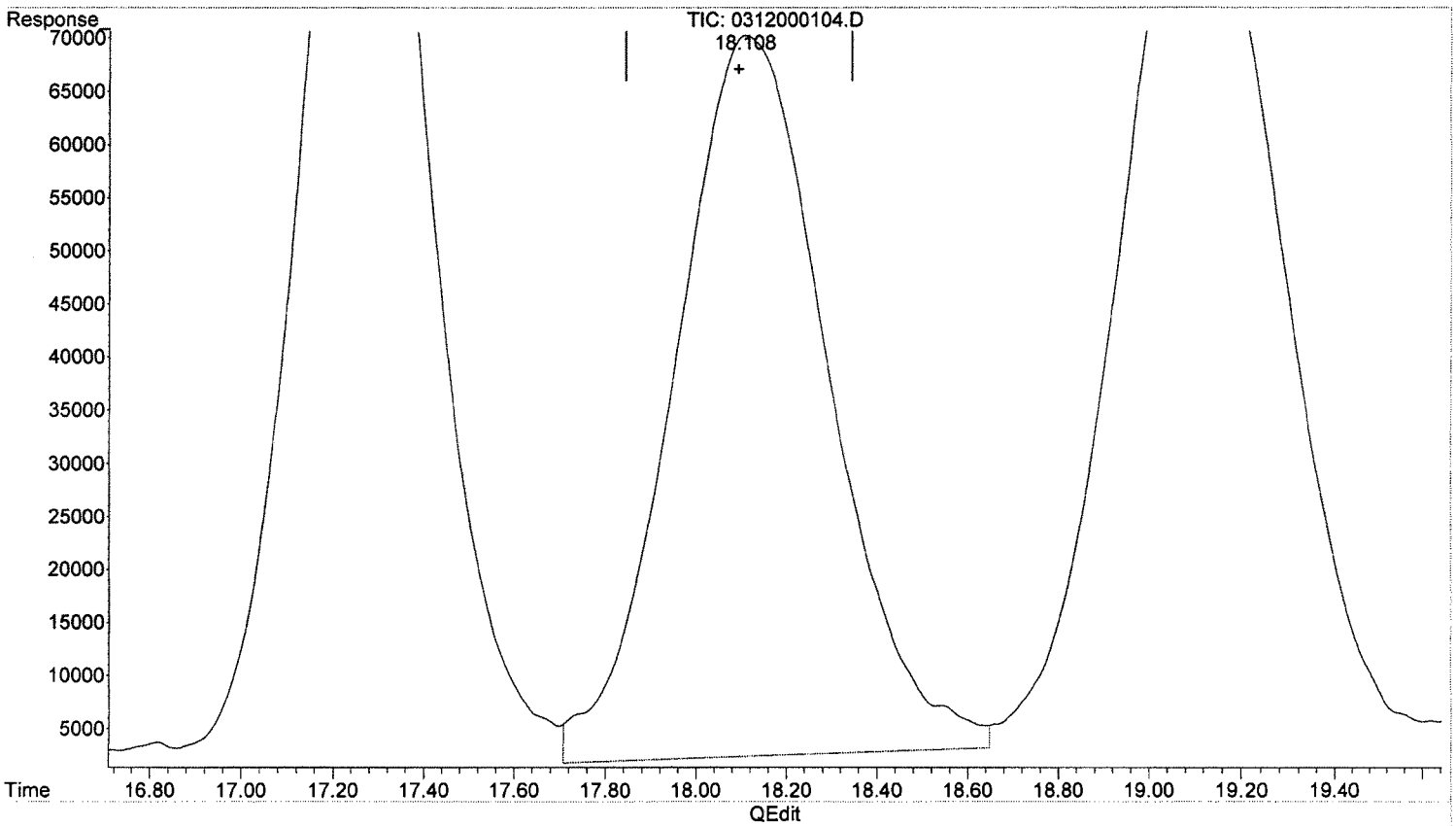
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.108min 54.157 ug/L m  
response 1597671

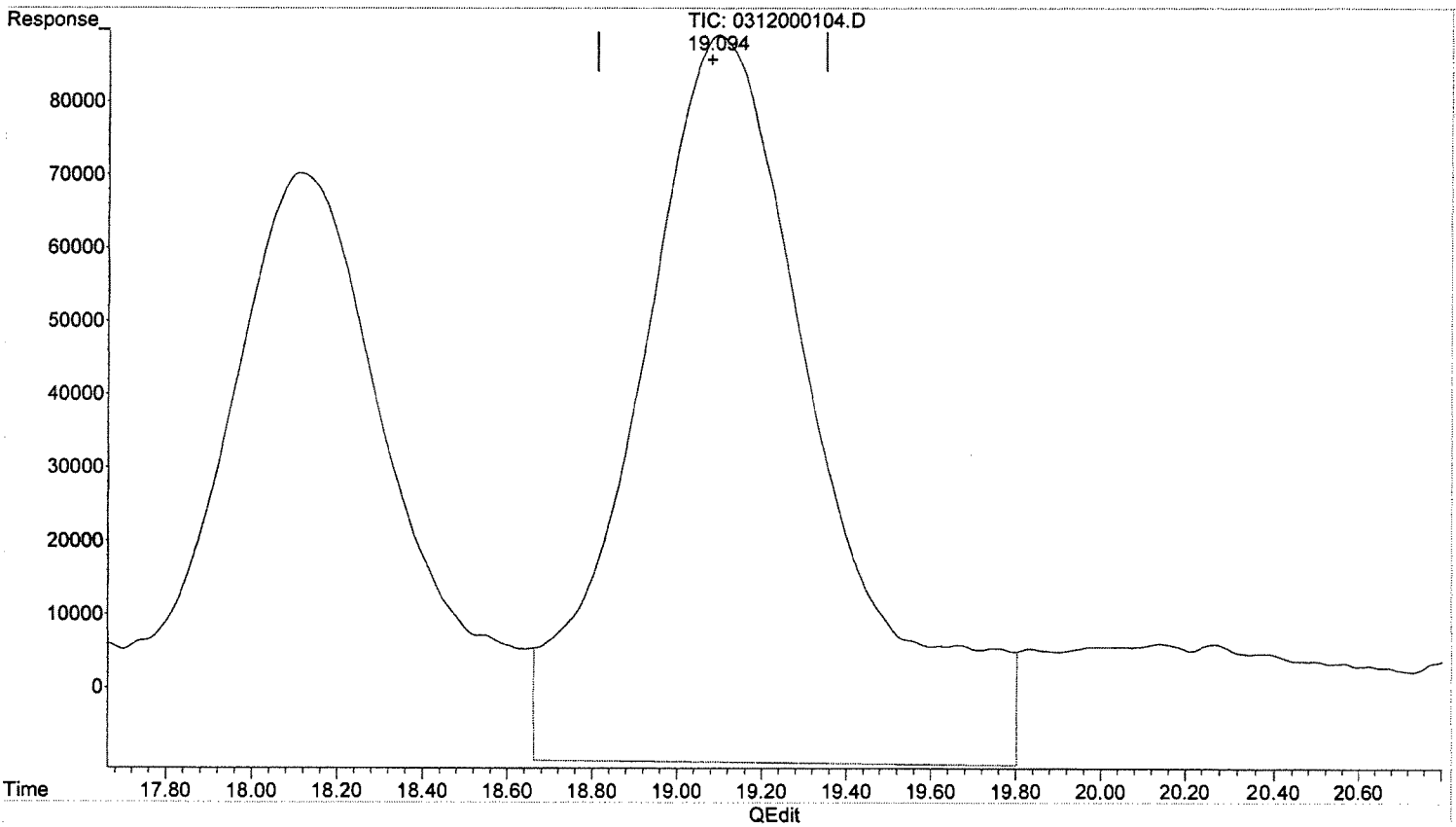
*SJ 3-17-15*  
*BL*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.094min 74.822 ug/L  
response 3004163

*3-17-15*

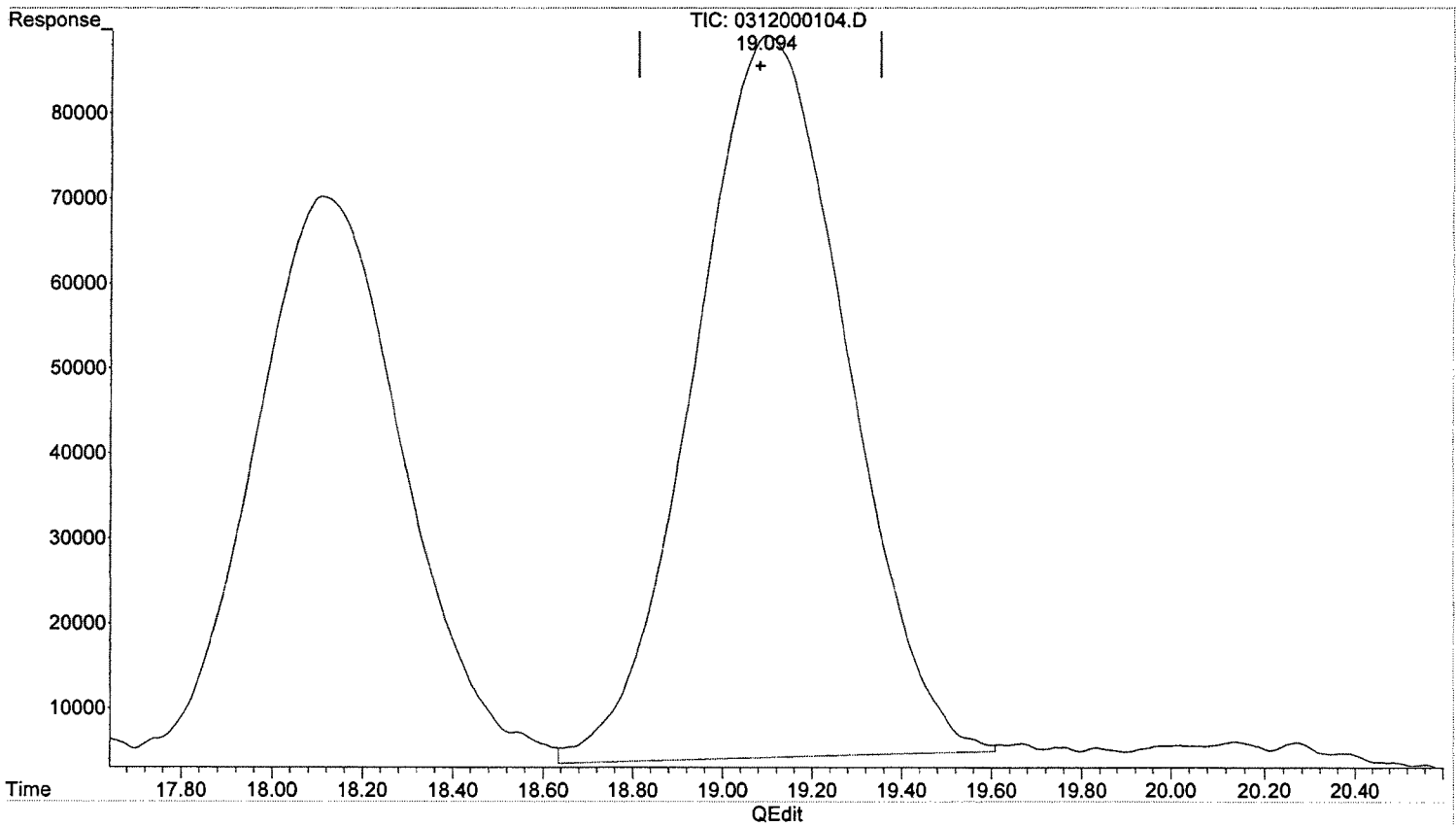
*13/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.094min 49.803 ug/L m  
response 1999644

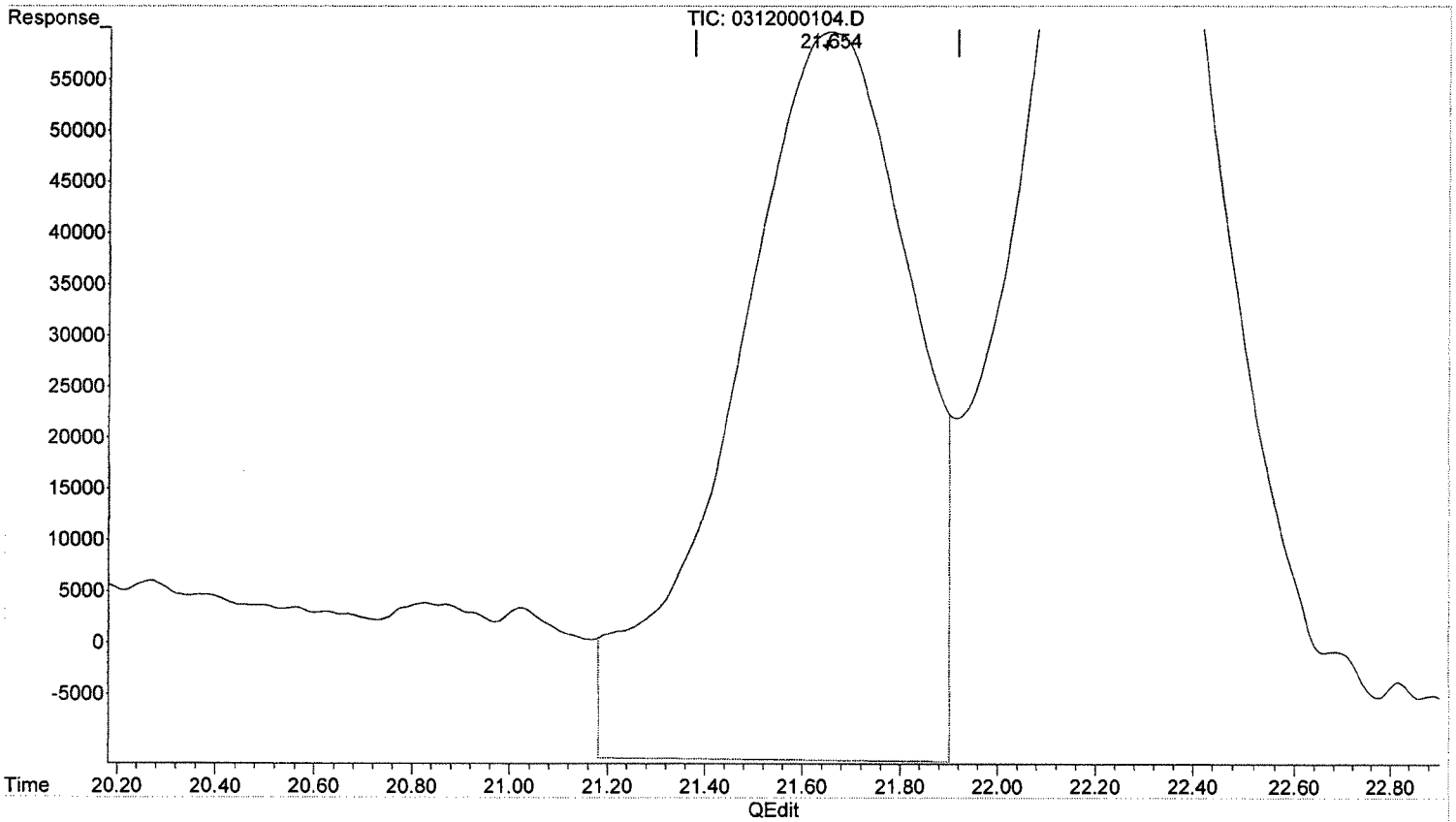
*SJ 3-17-15  
BL*

*MJ 2/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.654min 61.937 ug/L  
response 1806222

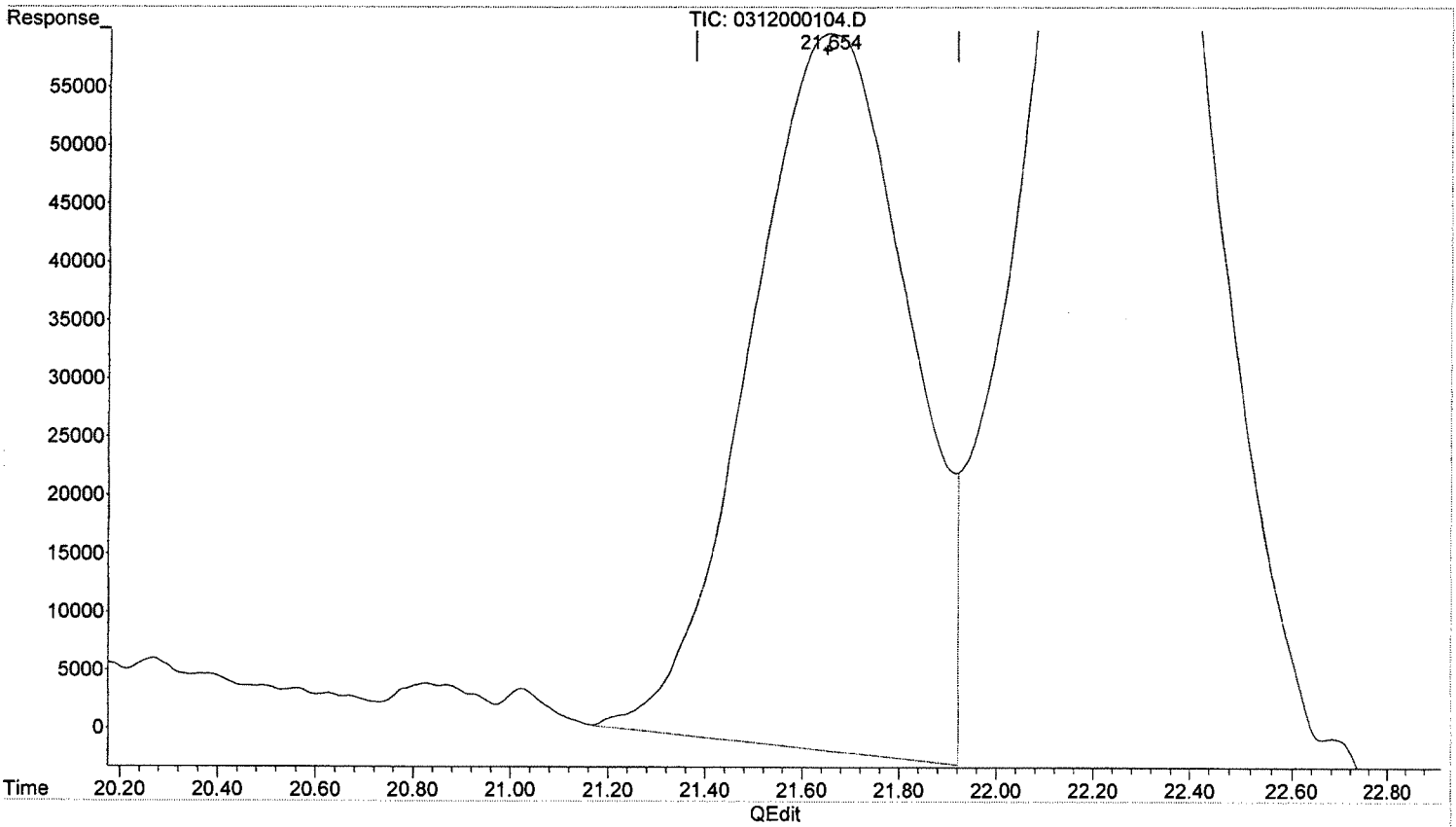
*SJ 3-17-15*

*MH 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.654min 48.182 ug/L m  
response 1405096

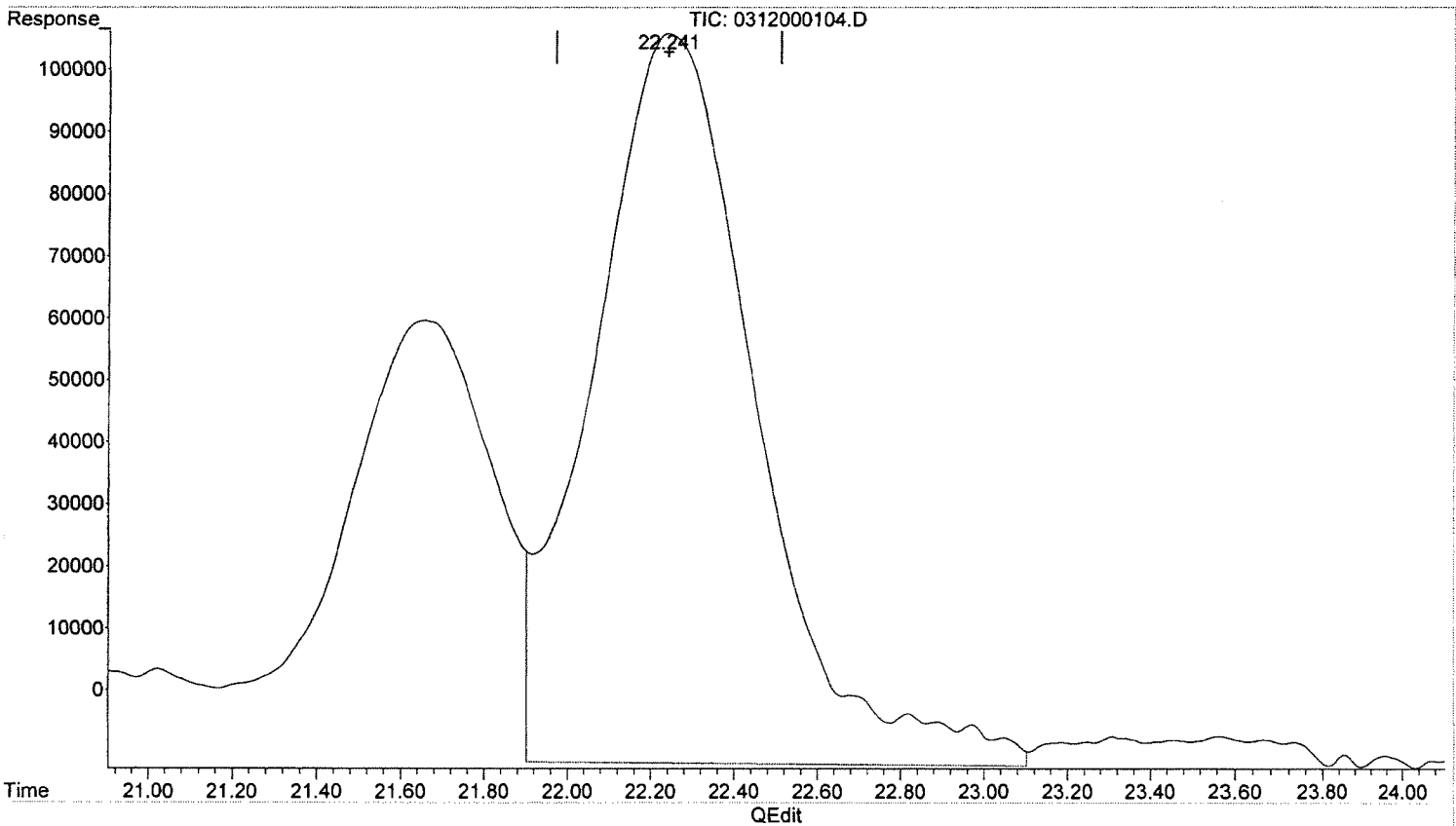
*3-17-15*  
*BL*

*3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.241min 58.961 ug/L  
response 3203641

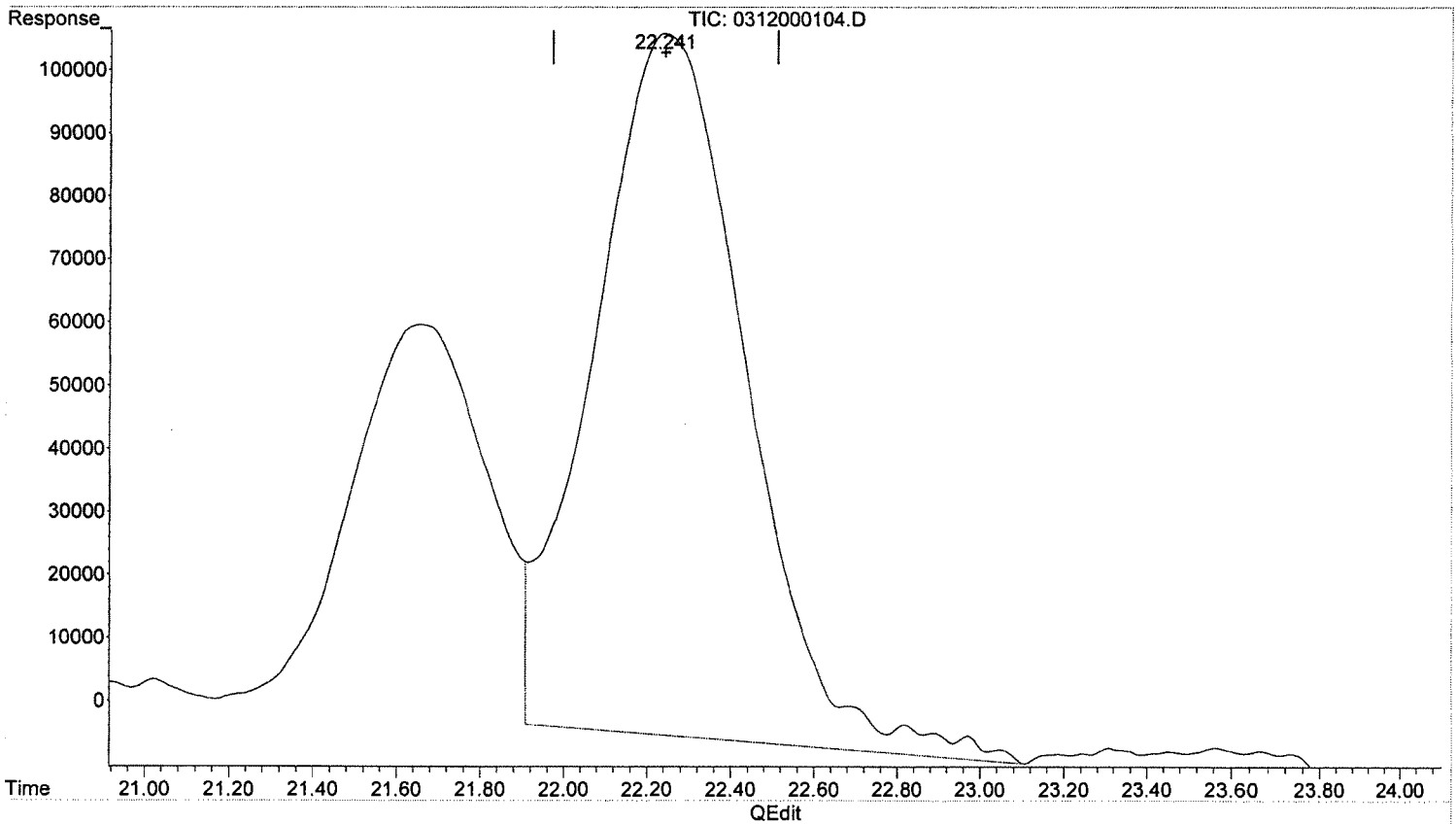
*SJ 3-17-15*

*MJL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.241min 52.067 ug/L m  
response 2829061

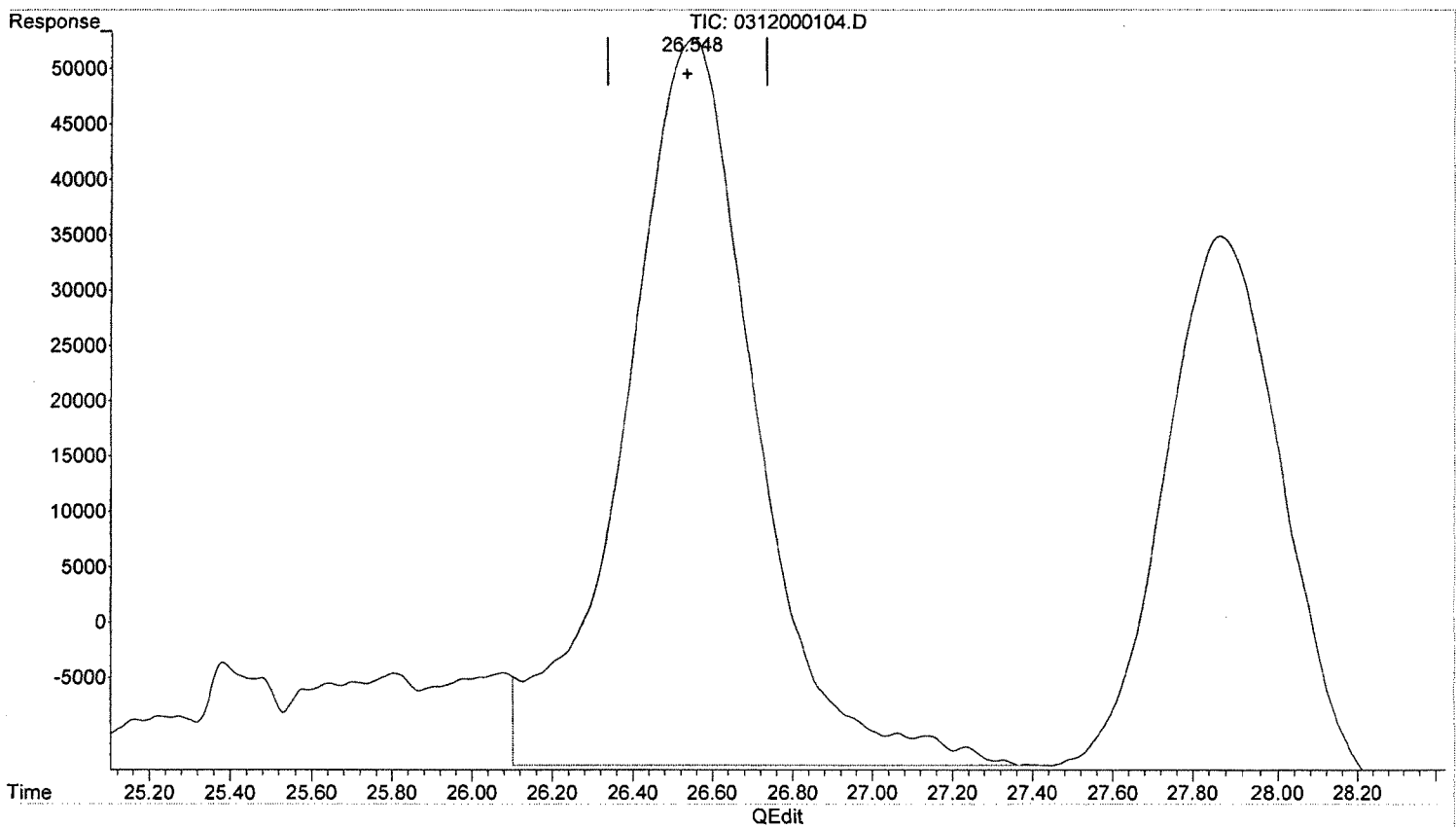
*SJ 3-17-15*  
*BL*

*SJ 3-24-15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.548min 61.412 ug/L  
response 1494141

*3-17-15*

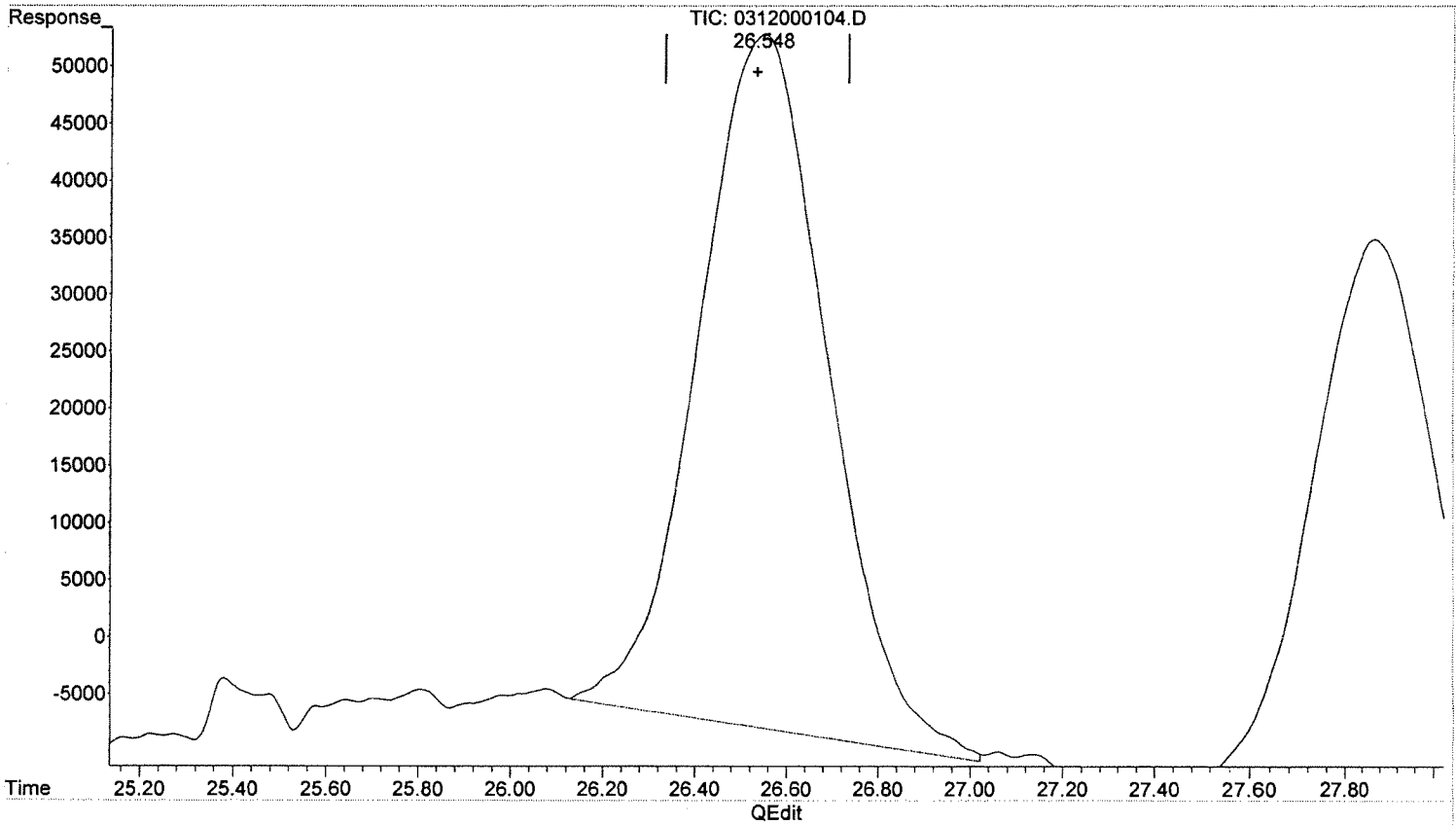
*3/24/15*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.548min 48.986 ug/L m  
response 1191819

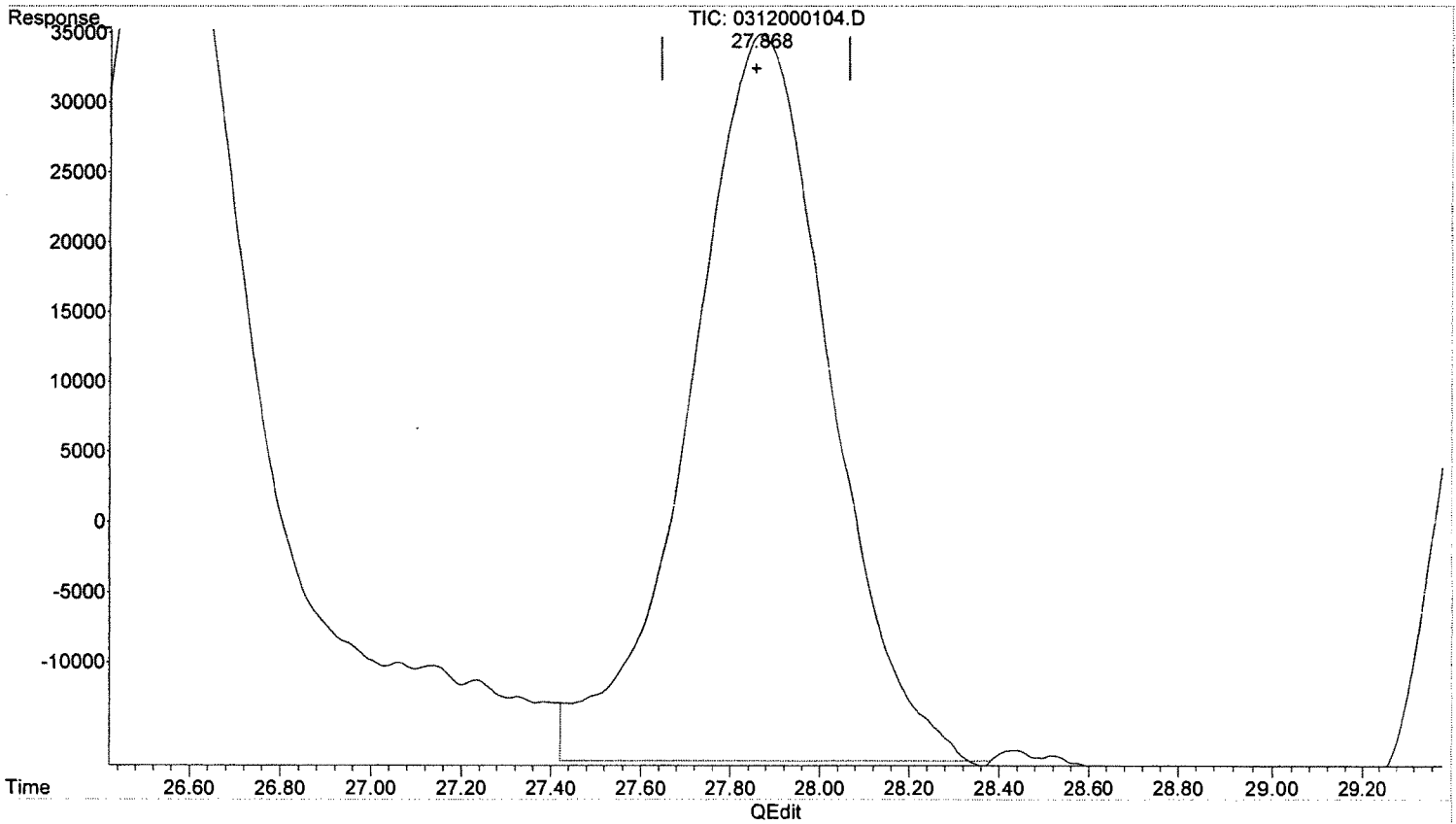
*SJ 3-17-15*  
*BL*

*WHL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
27.868min 53.751 ug/L  
response 1120317

*SJ 3-17-15*

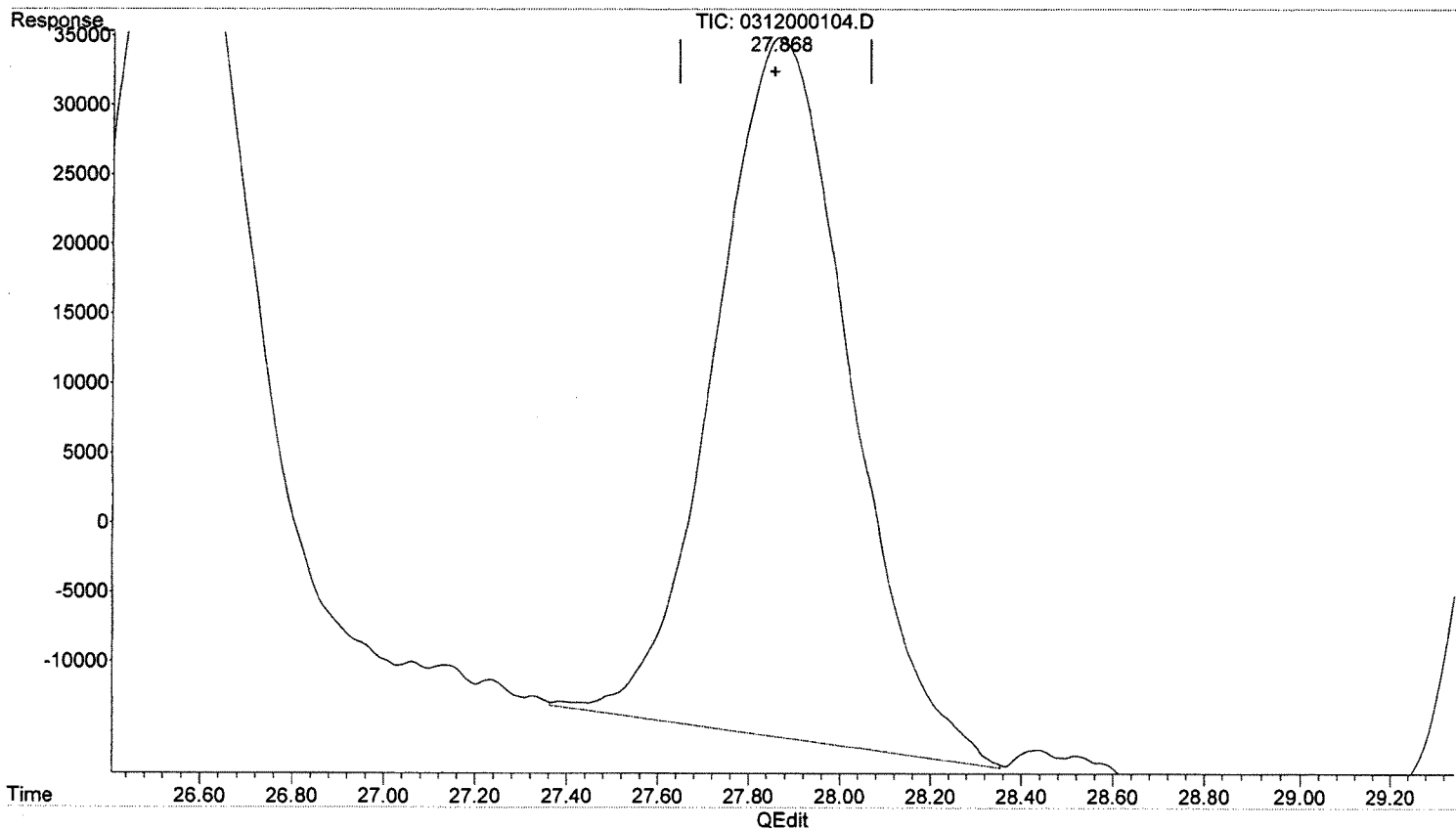
*MJ 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
27.868min 49.618 ug/L m  
response 1034182

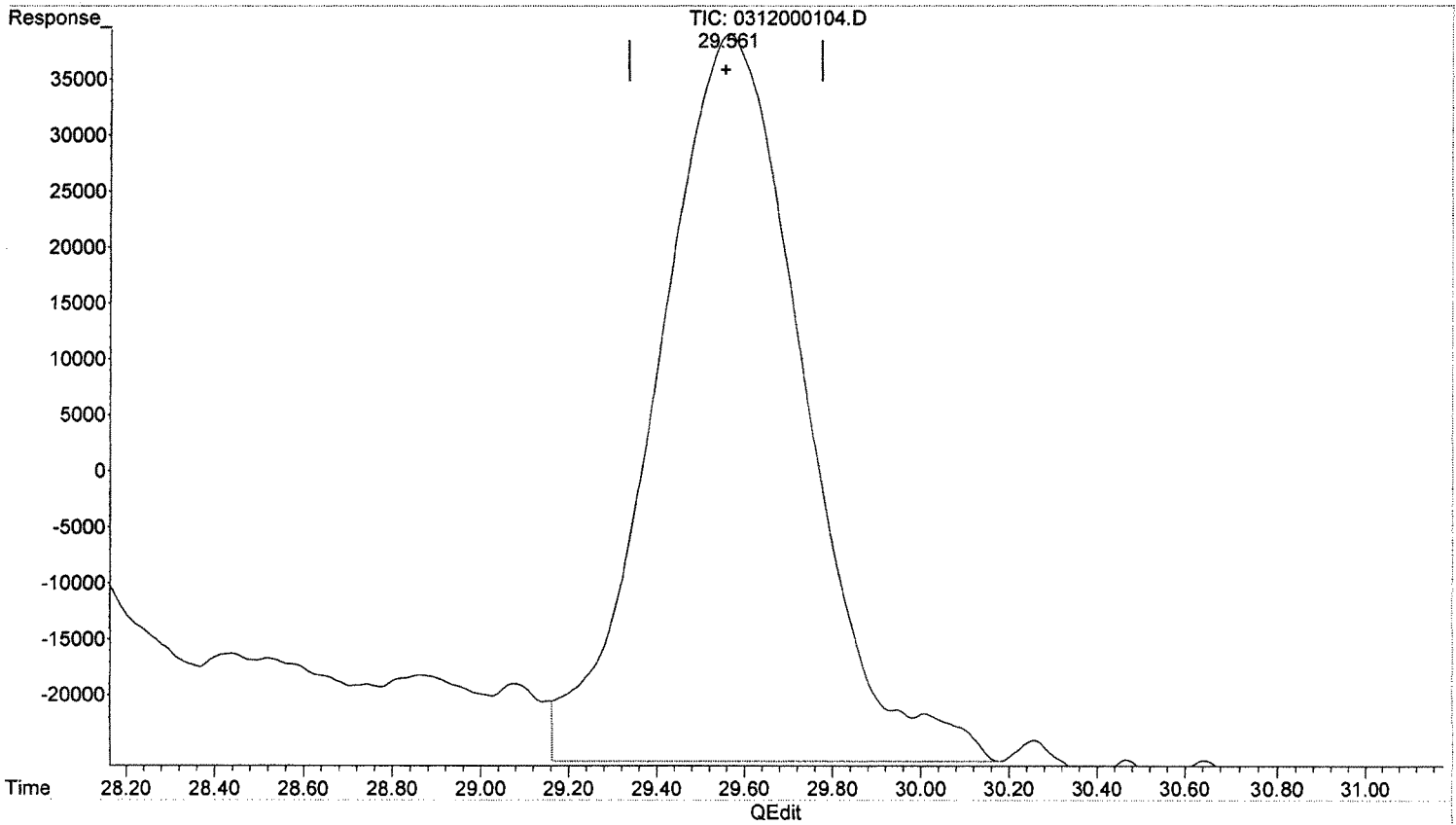
*SJ 3-17-15*  
*BL*

*MS/3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.561min 56.057 ug/L  
response 1497647

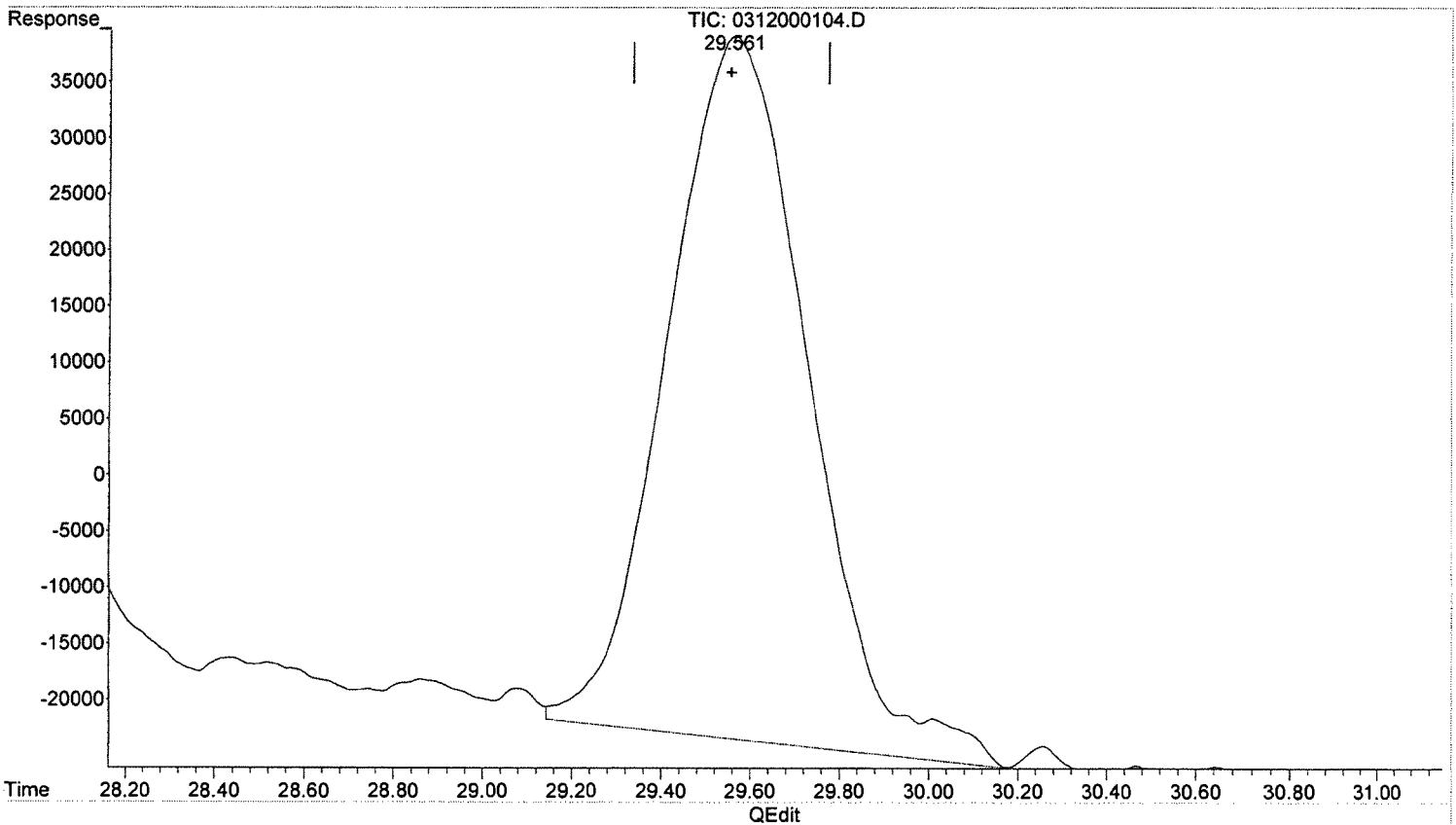
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.561min 51.474 ug/L m  
response 1375204

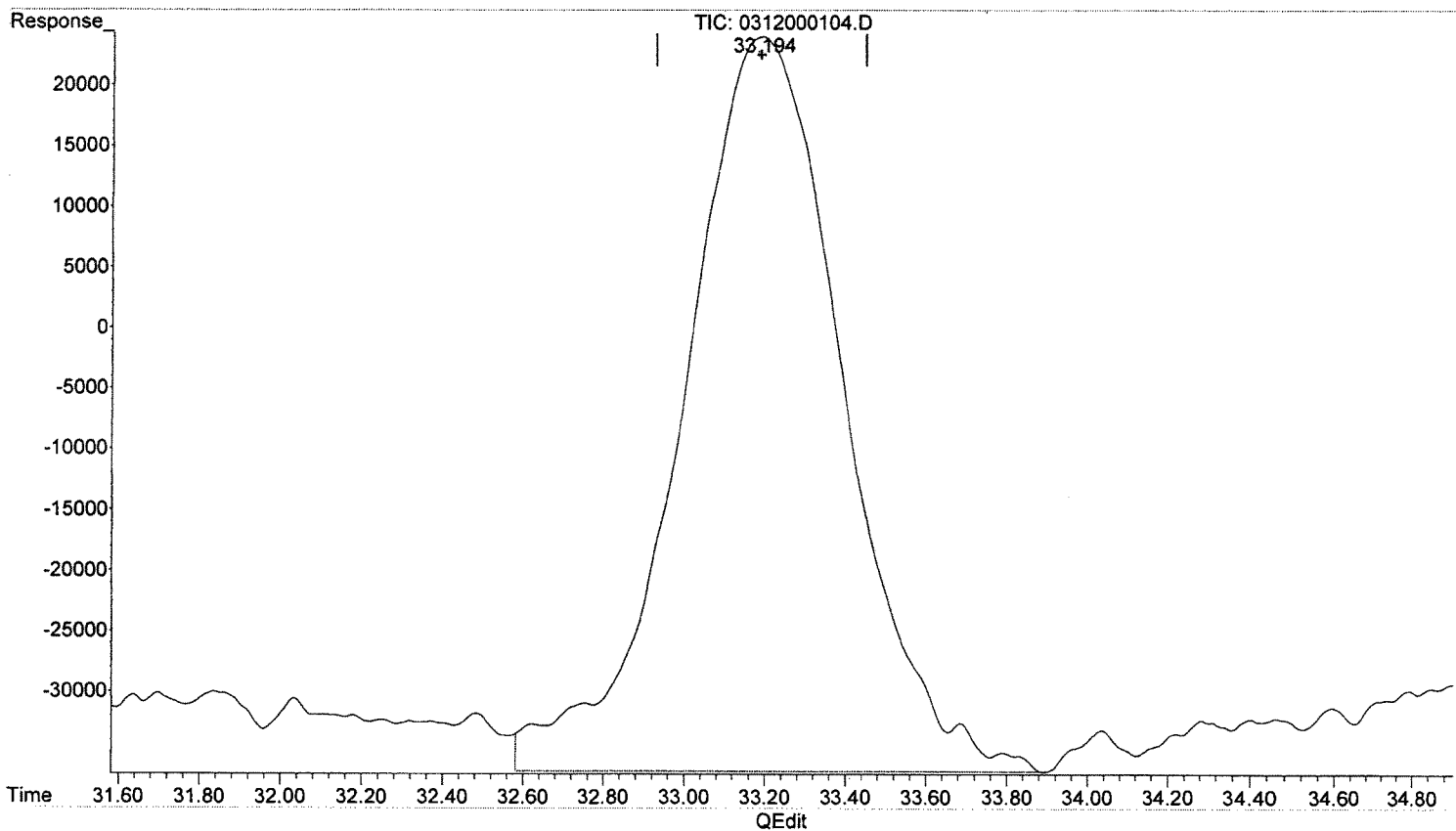
*SJ 3-17-15*  
*BL*

*03/16/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.194min 55.542 ug/L  
response 1672609

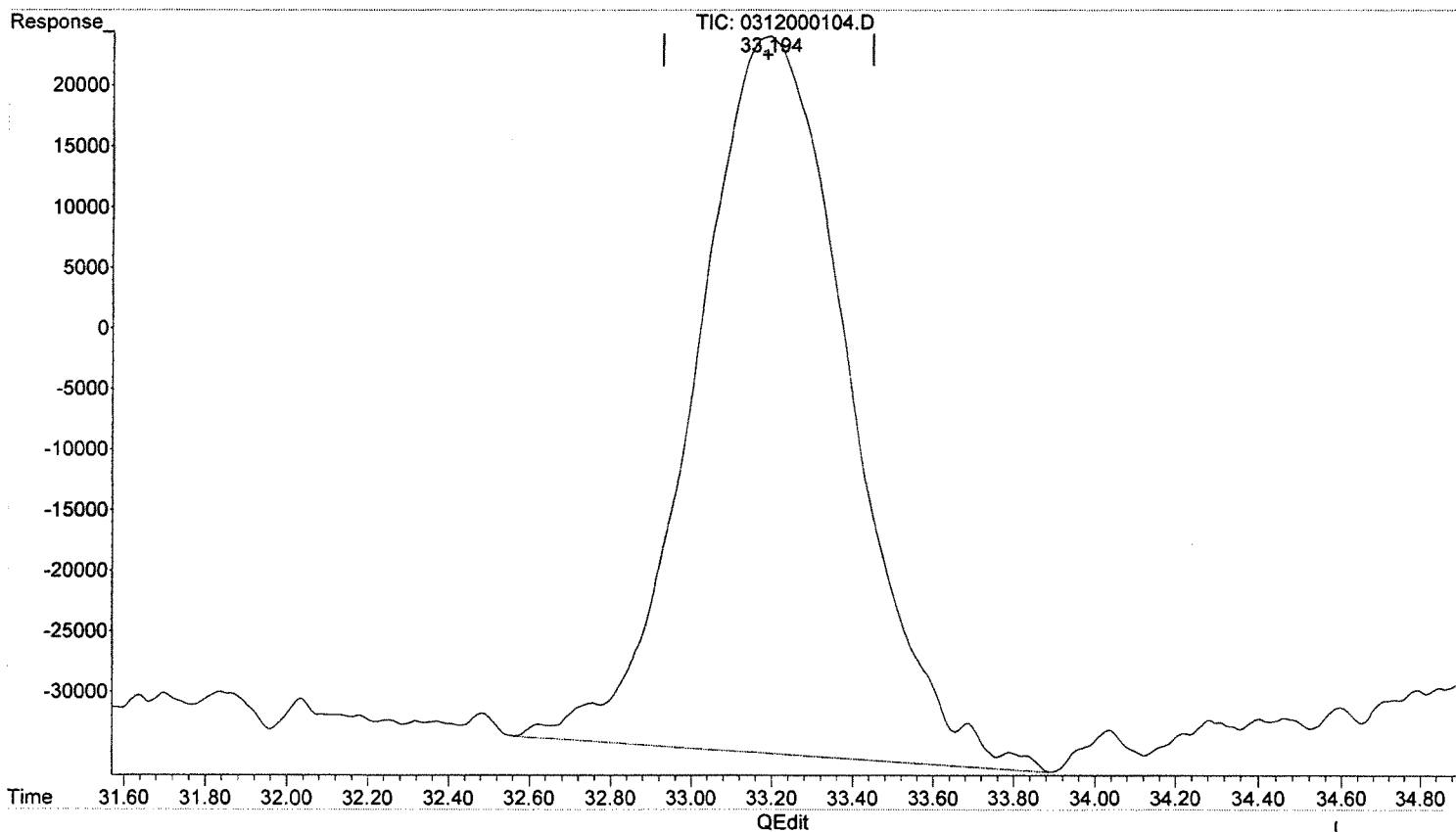
*SJ 3-17-15*

*[Handwritten signature]*  
*3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000104.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.194min 51.983 ug/L m  
response 1565433

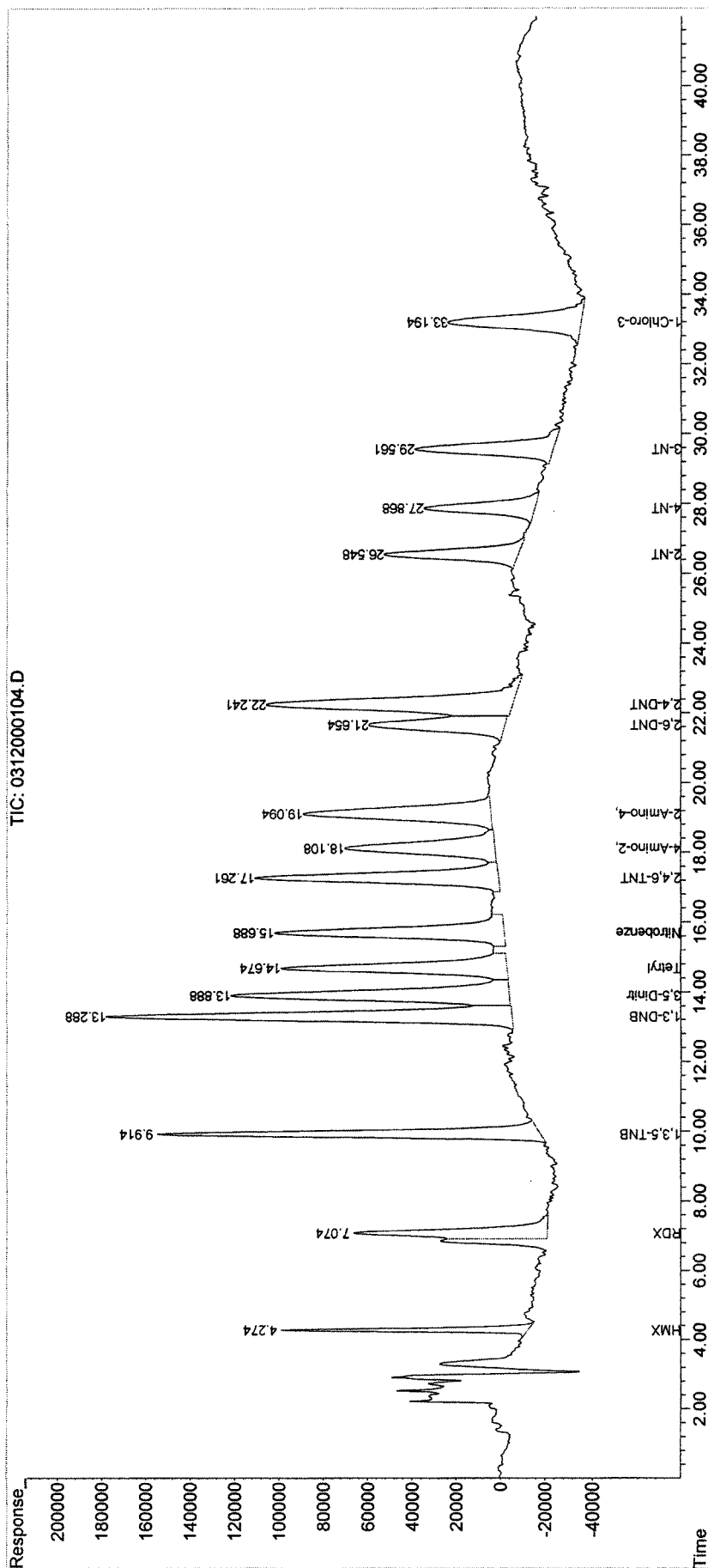
*SJ 3-17-15*  
*BL*

*수정 2월 15*

Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000104.D  
 Signal(s) : DAD1A.ch  
 Acq On : 12-Mar-2015, 19:37:16  
 Operator : SJ  
 Sample : 14-OLC-01-52B 50PPB  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 12:39:30 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 Quant Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000105.D  
 Signal(s) : DAD1A.ch  
 Acq On : 12-Mar-2015, 20:23:31  
 Operator : SJ  
 Sample : 14-OLC-01-52C 100PPB  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 12:54:22 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 QLast Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.188	3082479	102.359 ug/L m
Target Compounds			
1) T HMX	4.275	1555870	101.334 ug/L m
2) T RDX	7.075	2325886	115.649 ug/L m
3) T 1,3,5-TNB	9.901	4604168	103.718 ug/L m
4) T 1,3-DNB	13.268	6174285	101.549 ug/L m
5) T 3,5-Dinitroaniline	13.875	4997272	102.966 ug/L m
6) T Tetryl	14.661	3930764	120.754 ug/L m
7) T Nitrobenzene	15.668	4194985	113.154 ug/L m
8) T 2,4,6-TNT	17.248	4549378	110.260 ug/L m
9) T 4-Amino-2,6-DNT	18.095	3396957	115.148 ug/L m
10) T 2-Amino-4,6-DNT	19.081	4304010	107.196 ug/L m
11) T 2,6-DNT	21.648	2970524	101.862 ug/L m
12) T 2,4-DNT	22.241	5776771	106.318 ug/L
13) T 2-NT	26.535	2565258	105.437 ug/L m
14) T 4-NT	27.855	2148306	103.072 ug/L m
15) T 3-NT	29.555	2775291	103.879 ug/L m
-----			

(f)=RT Delta > 1/2 Window

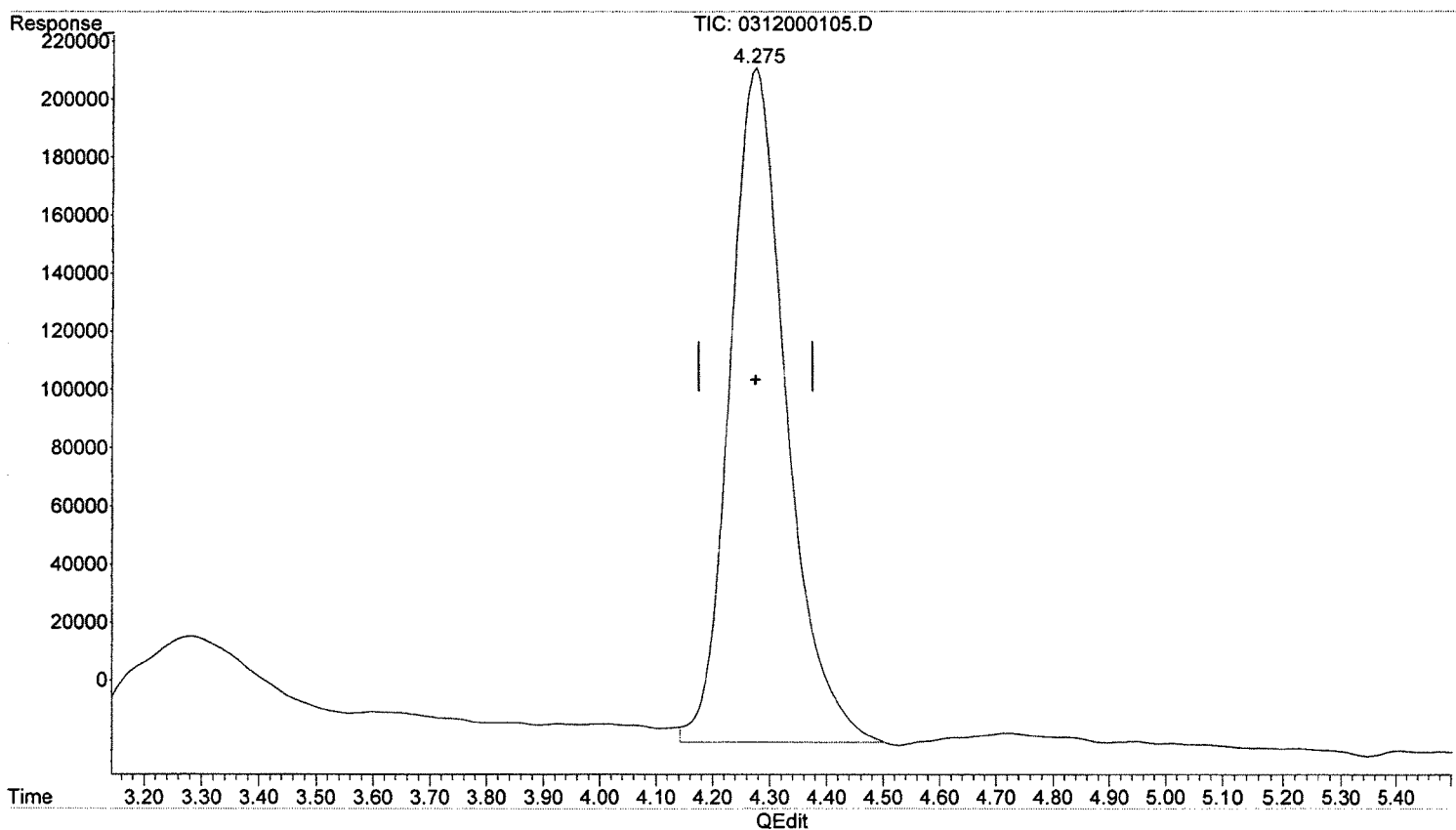
(m)=manual int.

*3/17-15*  
*3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.275min 103.552 ug/L  
response 1589926

*SJ 3-17-15*

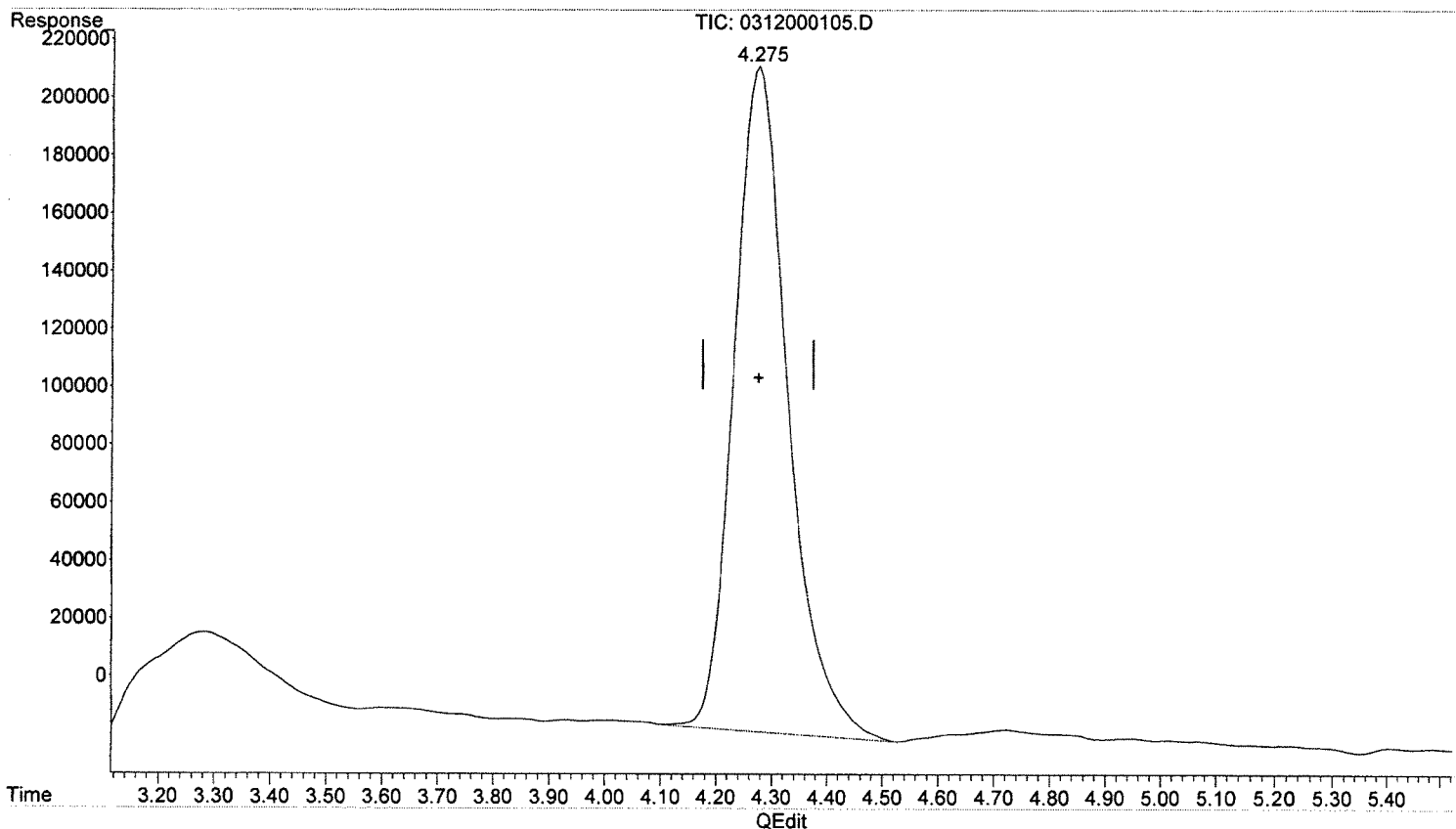
*MJ 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.275min 101.334 ug/L m  
response 1555870

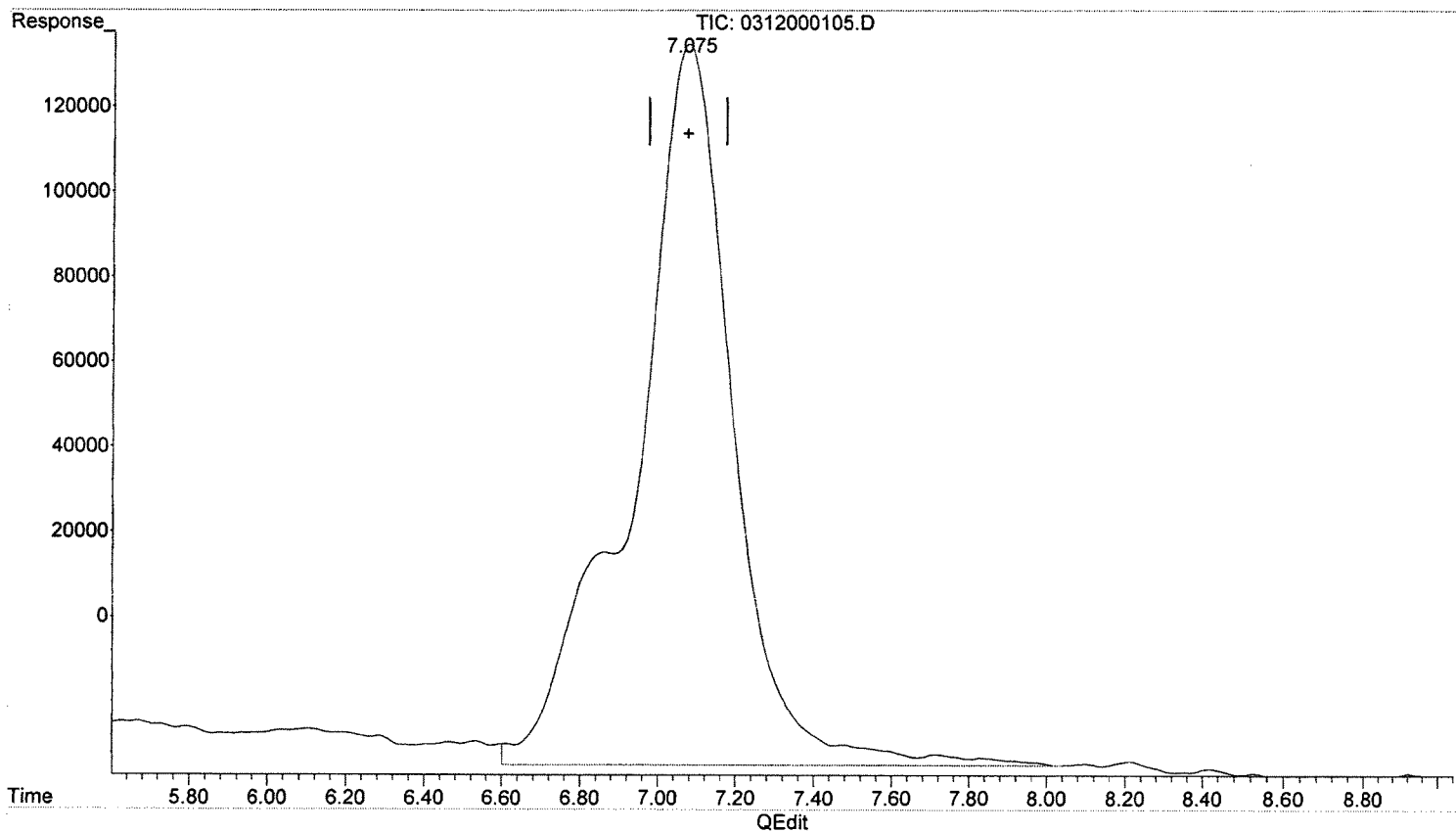
*sf 3-17-15*  
*BL*

*M/3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.075min 149.321 ug/L  
response 3003086

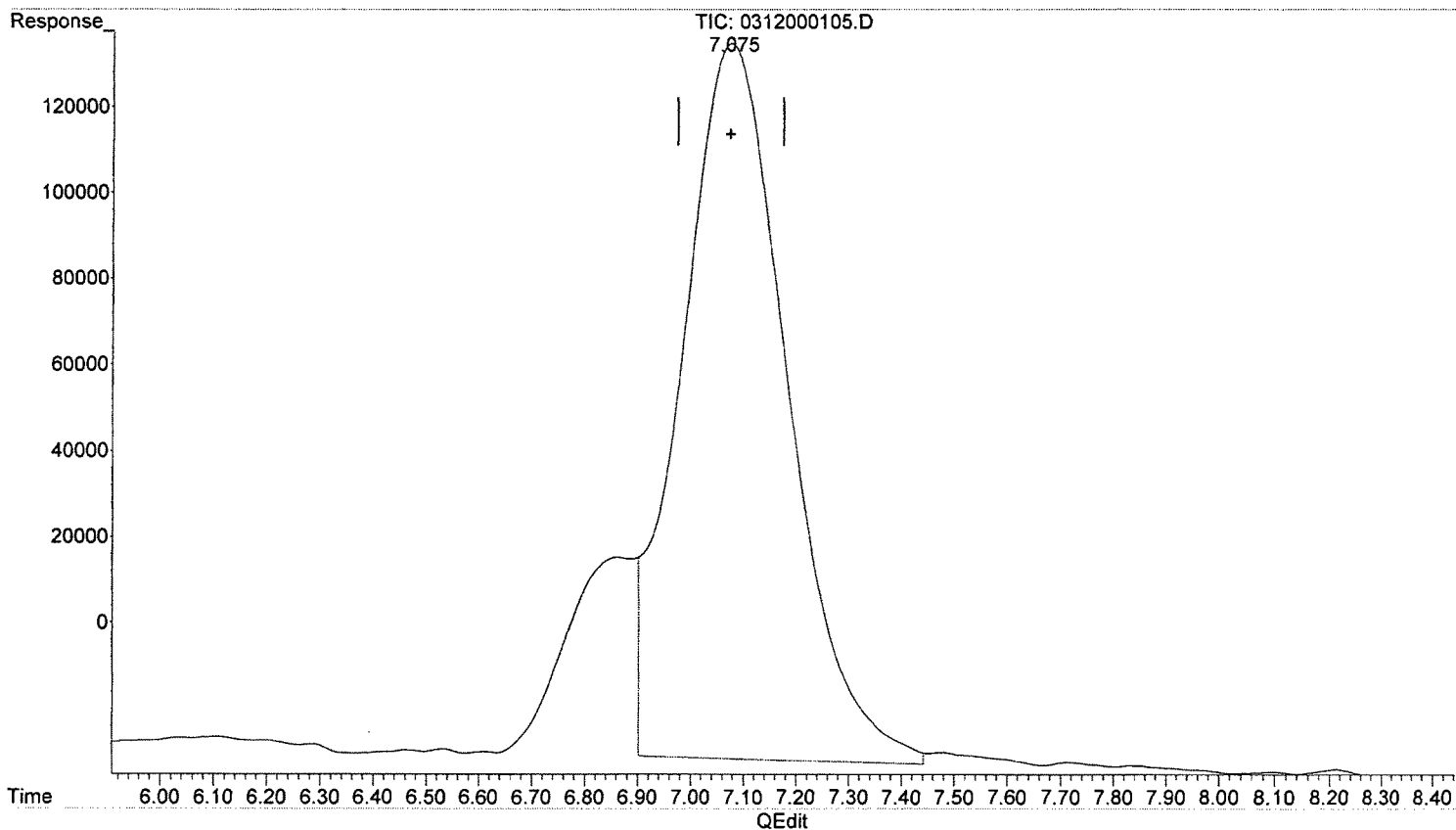
*SJ-17-15*

*M/3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.075min 115.649 ug/L m  
response 2325886

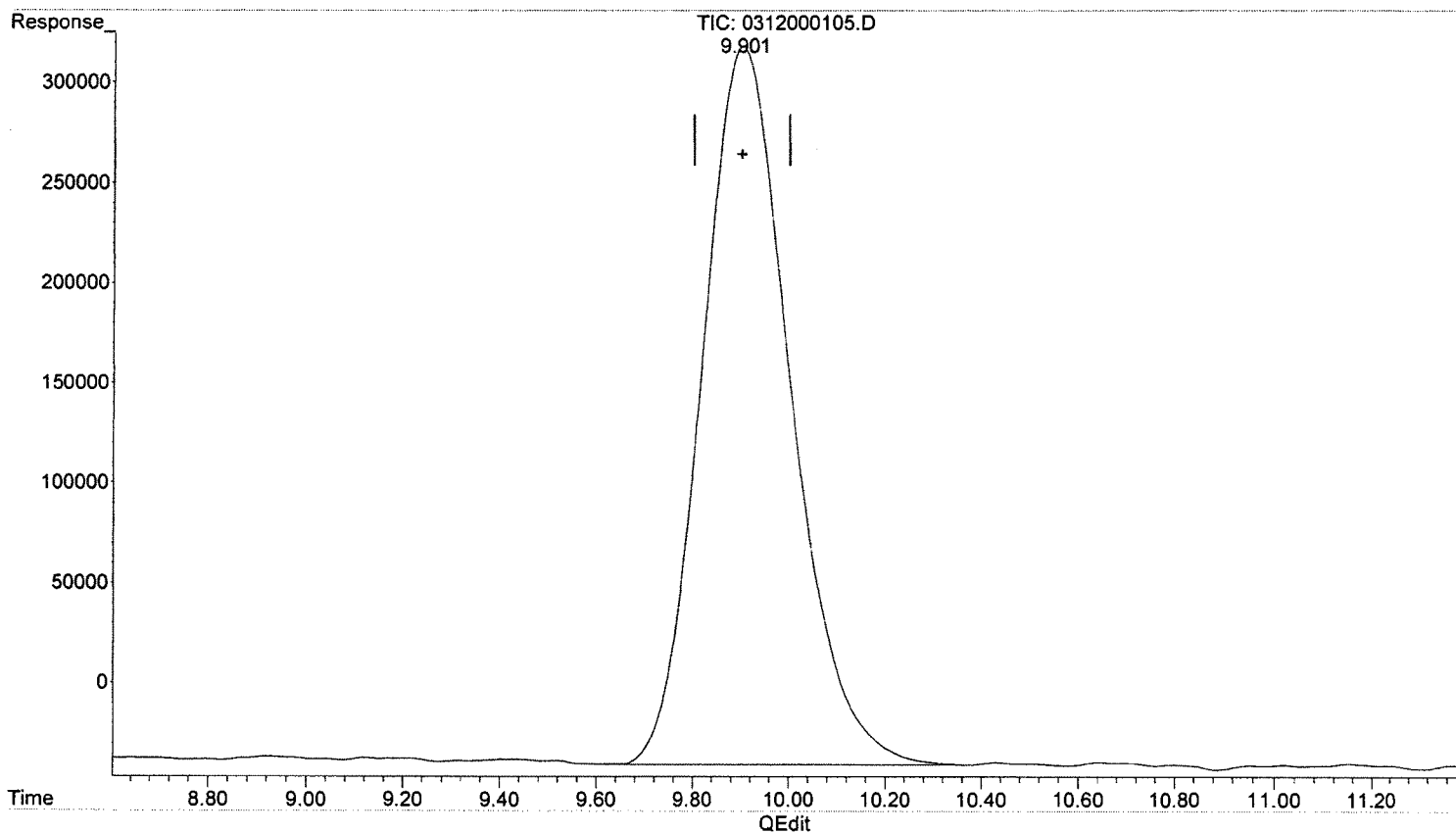
*SJ 3-17-15*  
*BR*

*WJF 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.901min 103.692 ug/L  
response 4602978

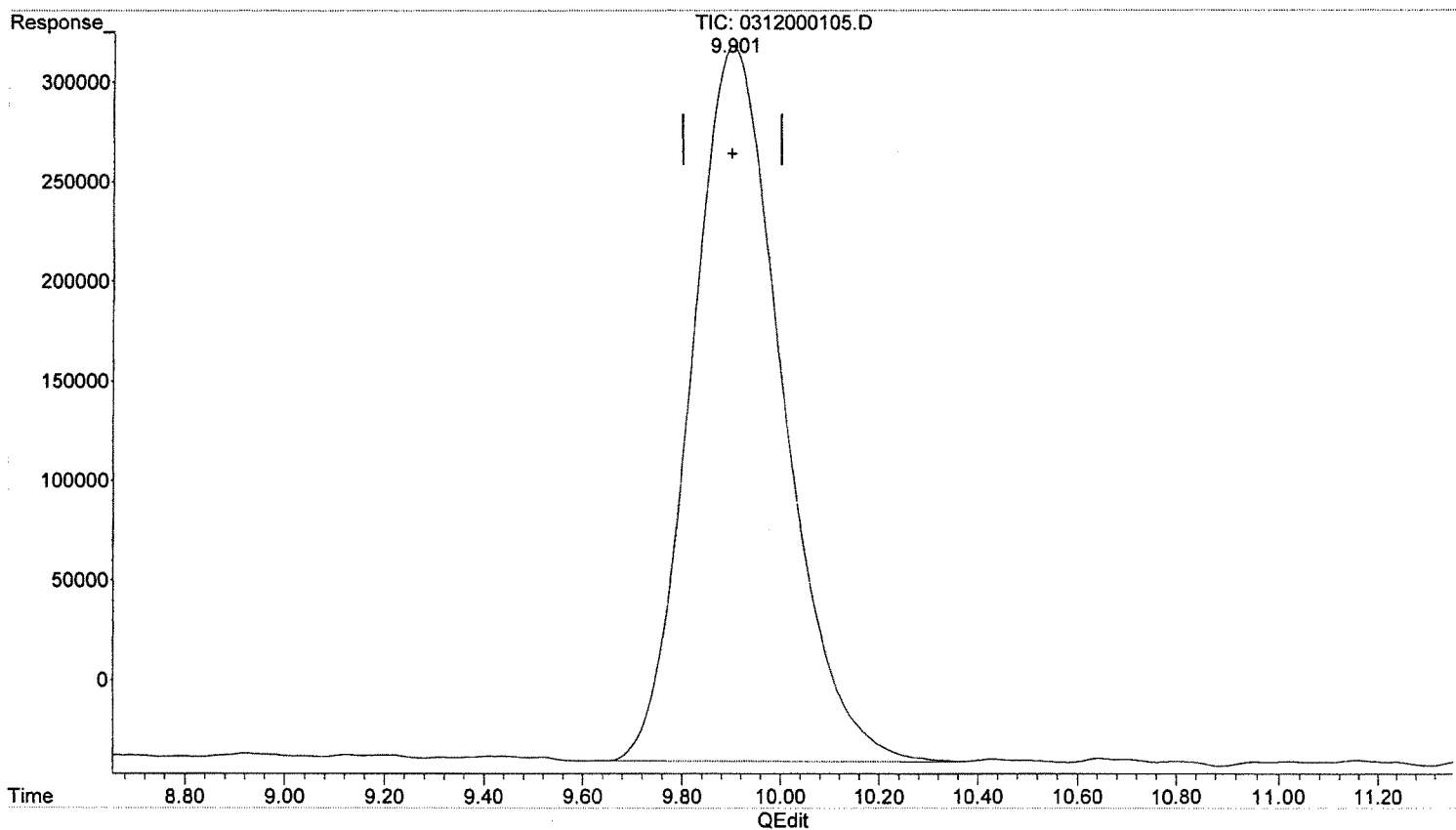
*SJS-17-15*

*ml 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.901min 103.718 ug/L m  
response 4604168

*SJ 3-17-15*  
*BL*

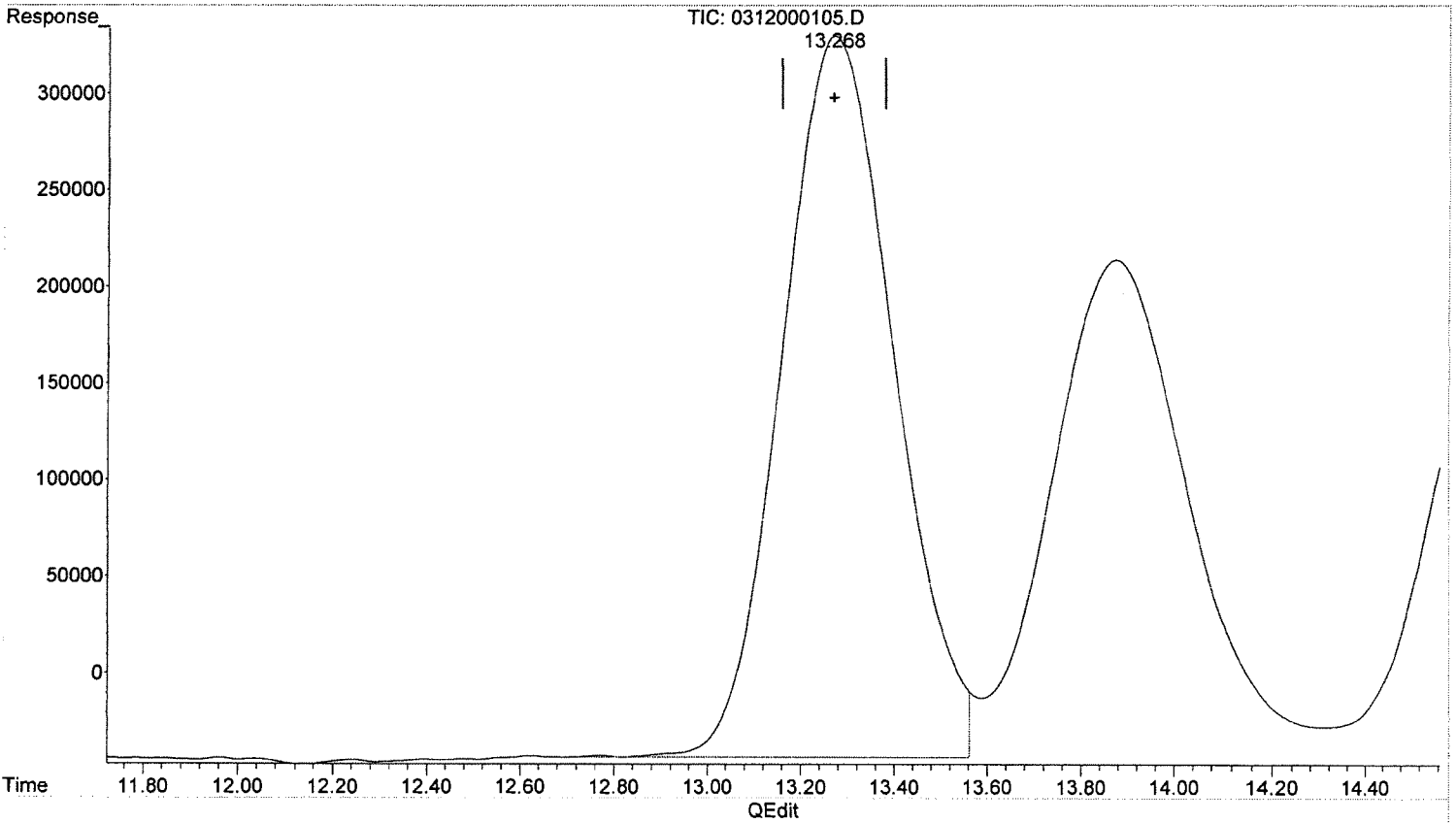
*MJD 3/24/15*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.268min 102.030 ug/L  
response 6203542

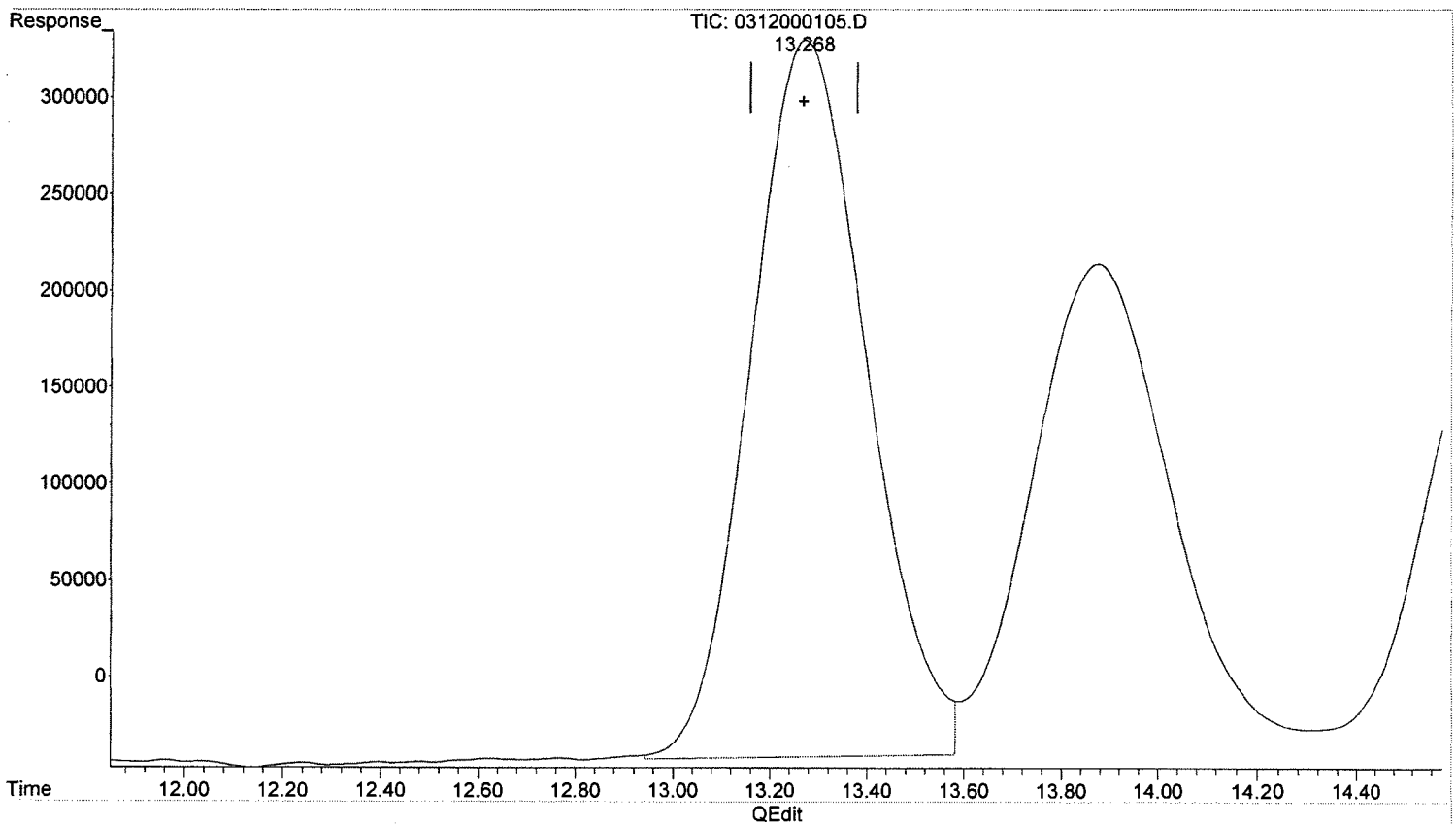
*SJ 3-17-15*

*14/3/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.268min 101.549 ug/L m  
response 6174285

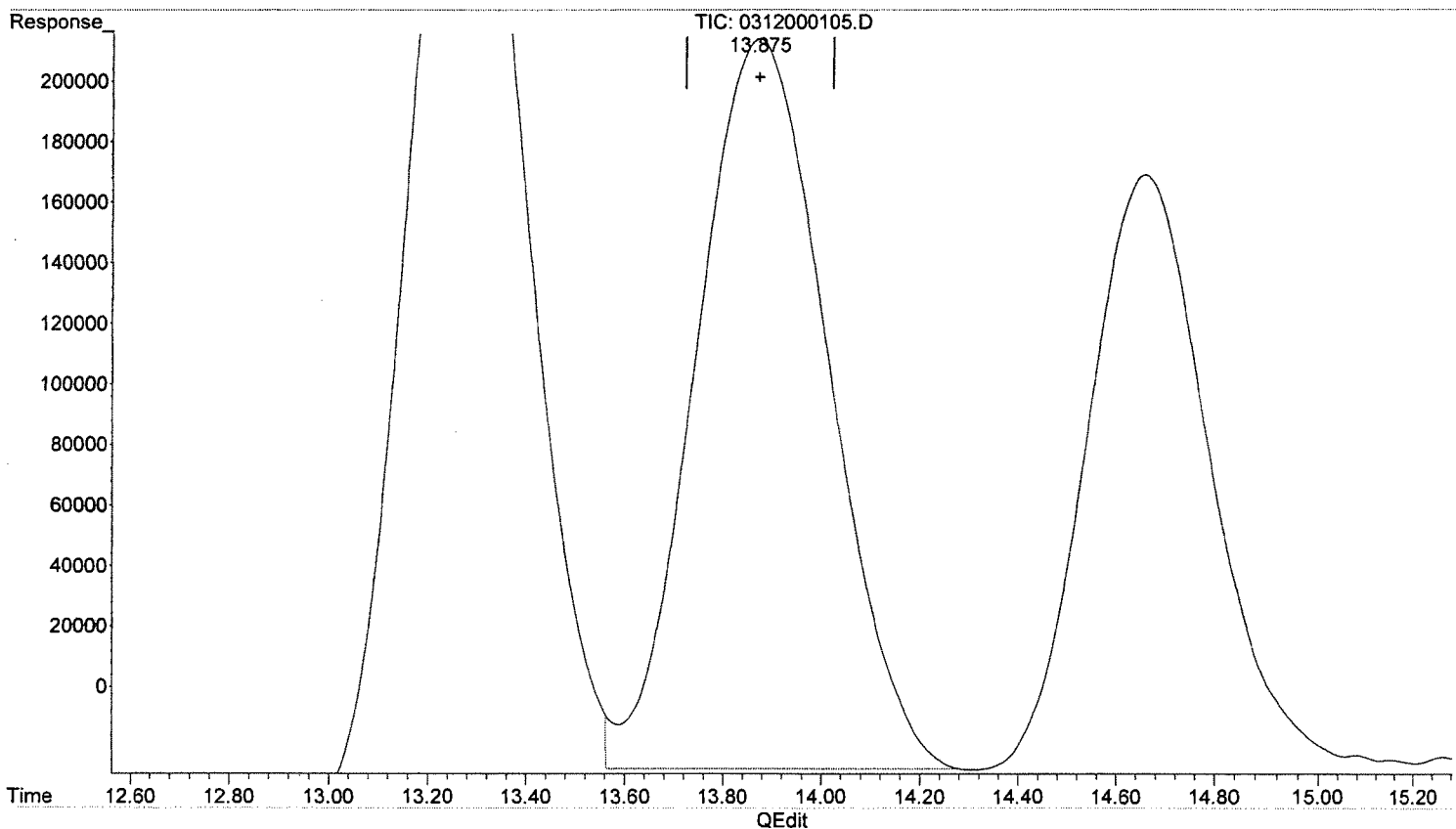
*SJ 3-17-15*  
*BL*

*mpl 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.875min 92.665 ug/L  
response 4497323

*SJ 3-17-15*

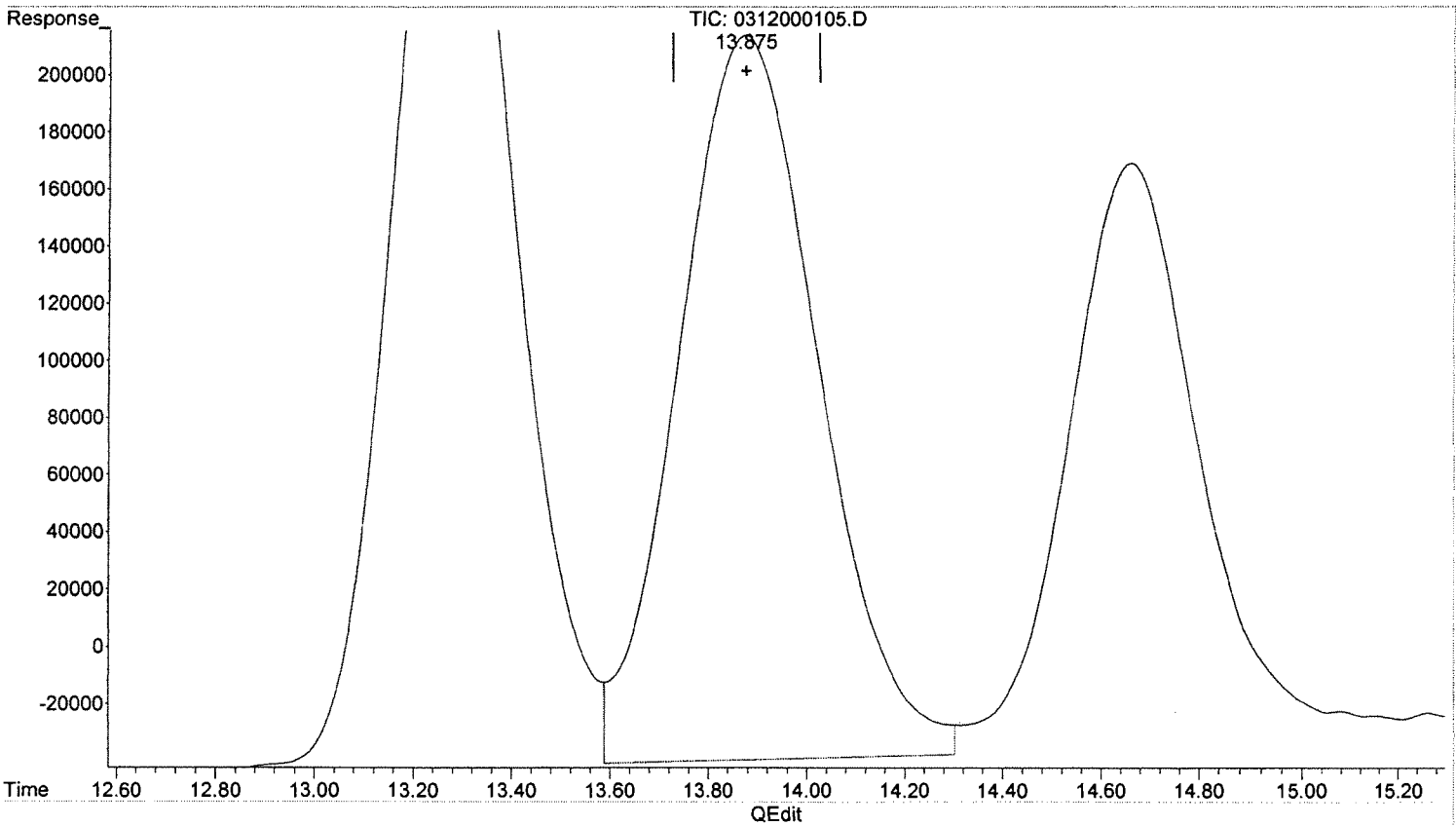
*MAL 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.875min 102.966 ug/L m  
response 4997272

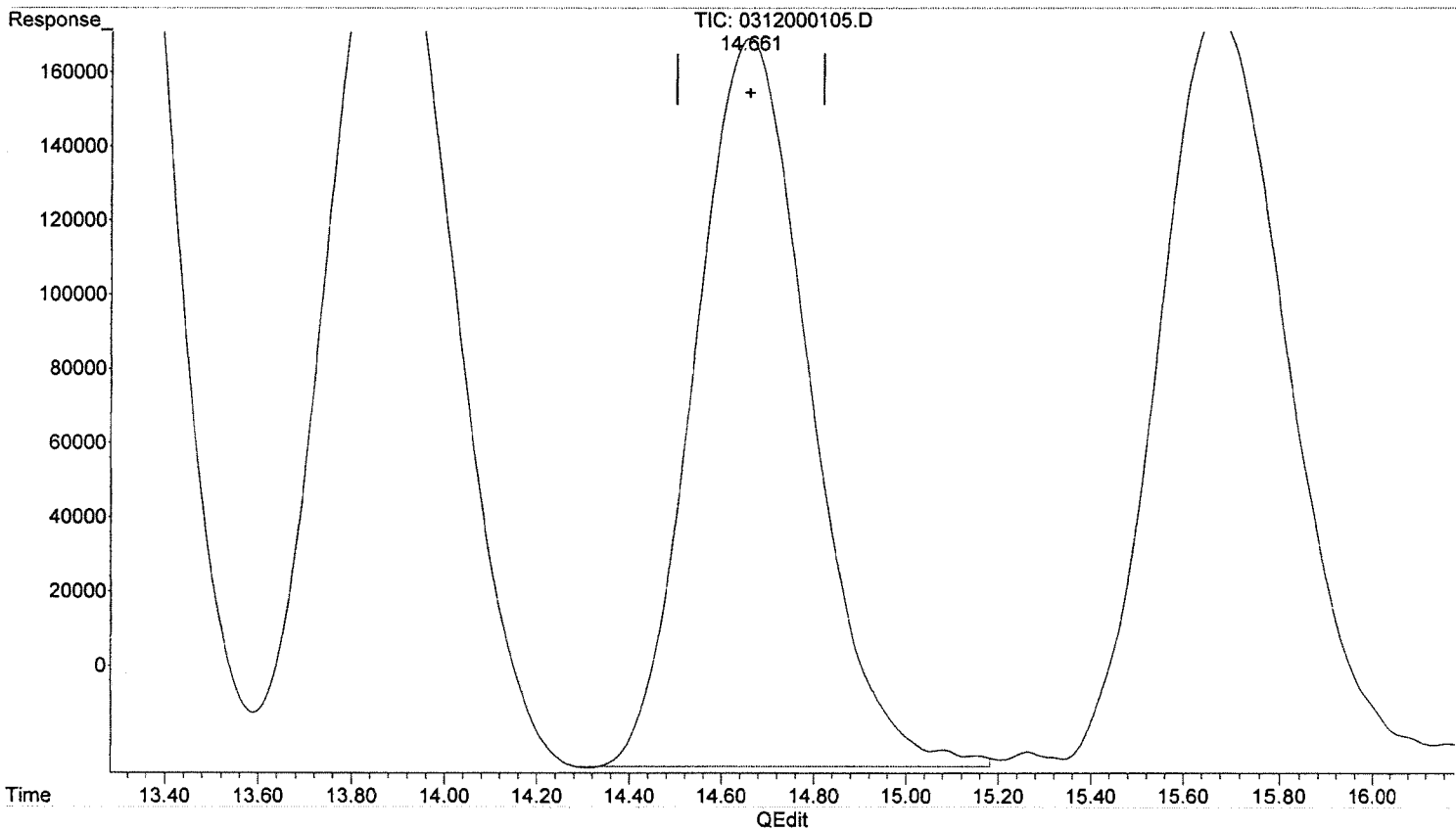
*SJ 3-17-15  
BL*

*M/S/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.661min 103.993 ug/L  
response 3385142

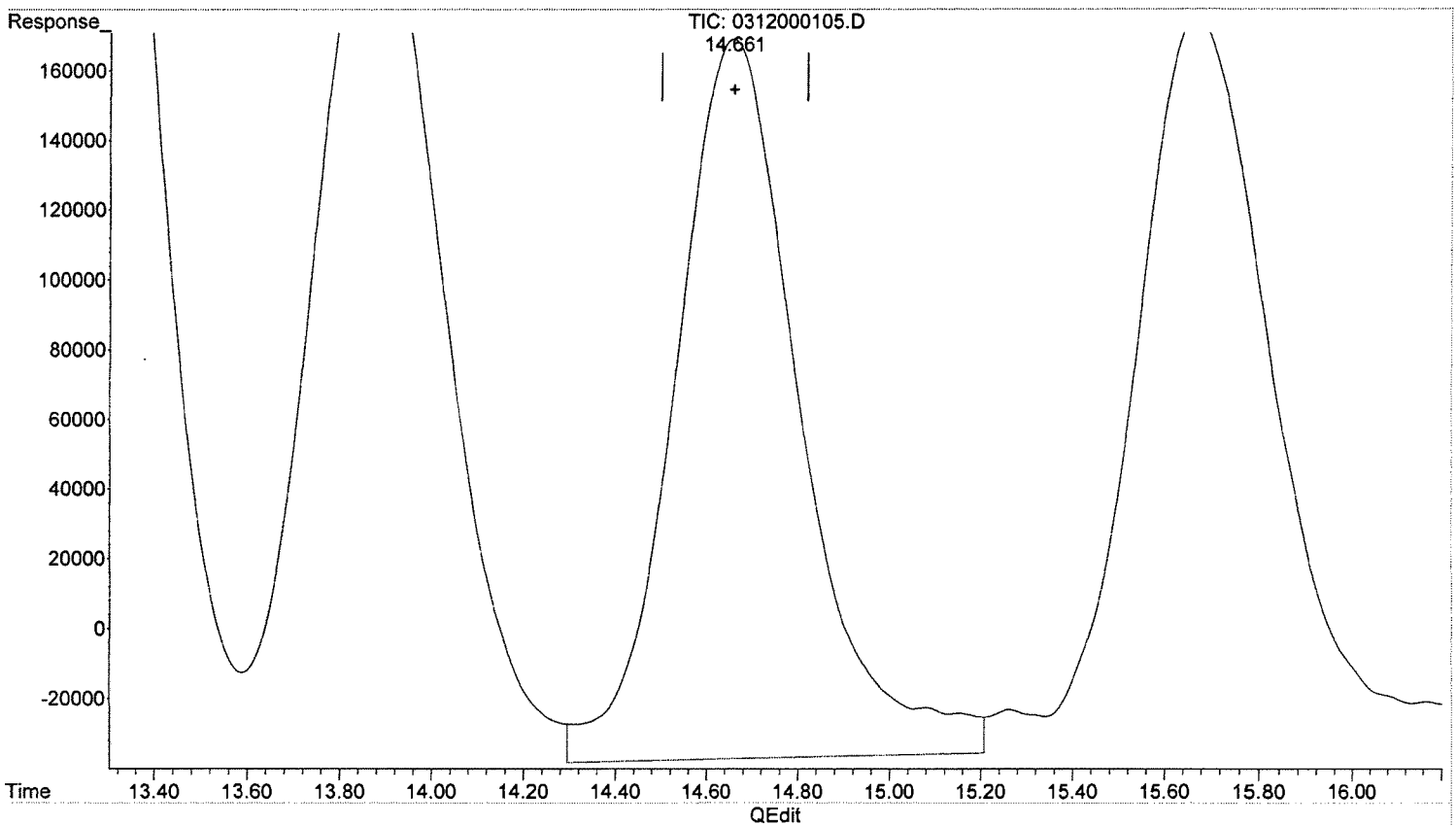
*SJ 3-17-15*

*M/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.661min 120.754 ug/L m  
response 3930764

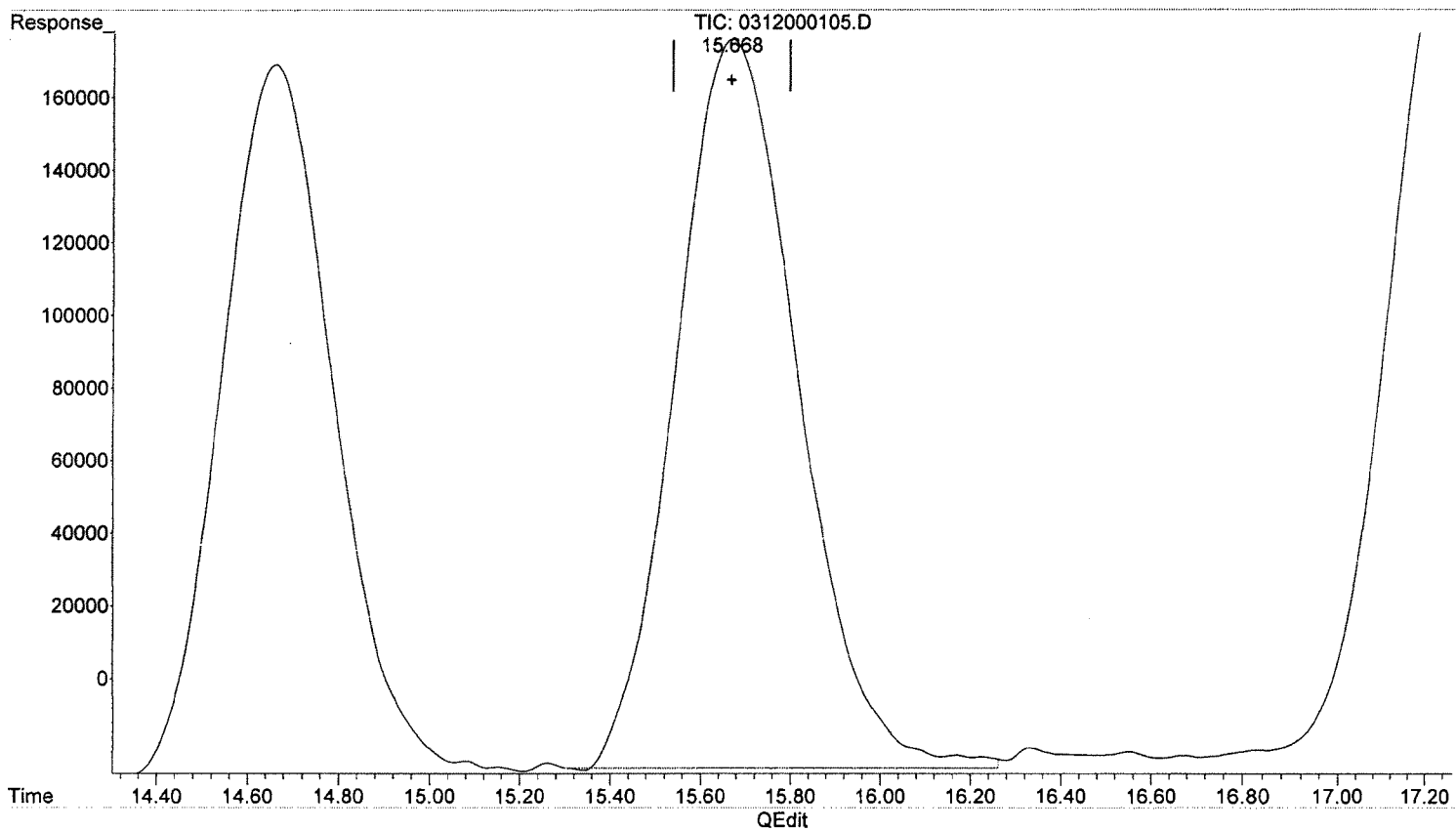
*SJ 3-17-15*  
*BL*

*ml 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.668min 101.697 ug/L  
response 3770257

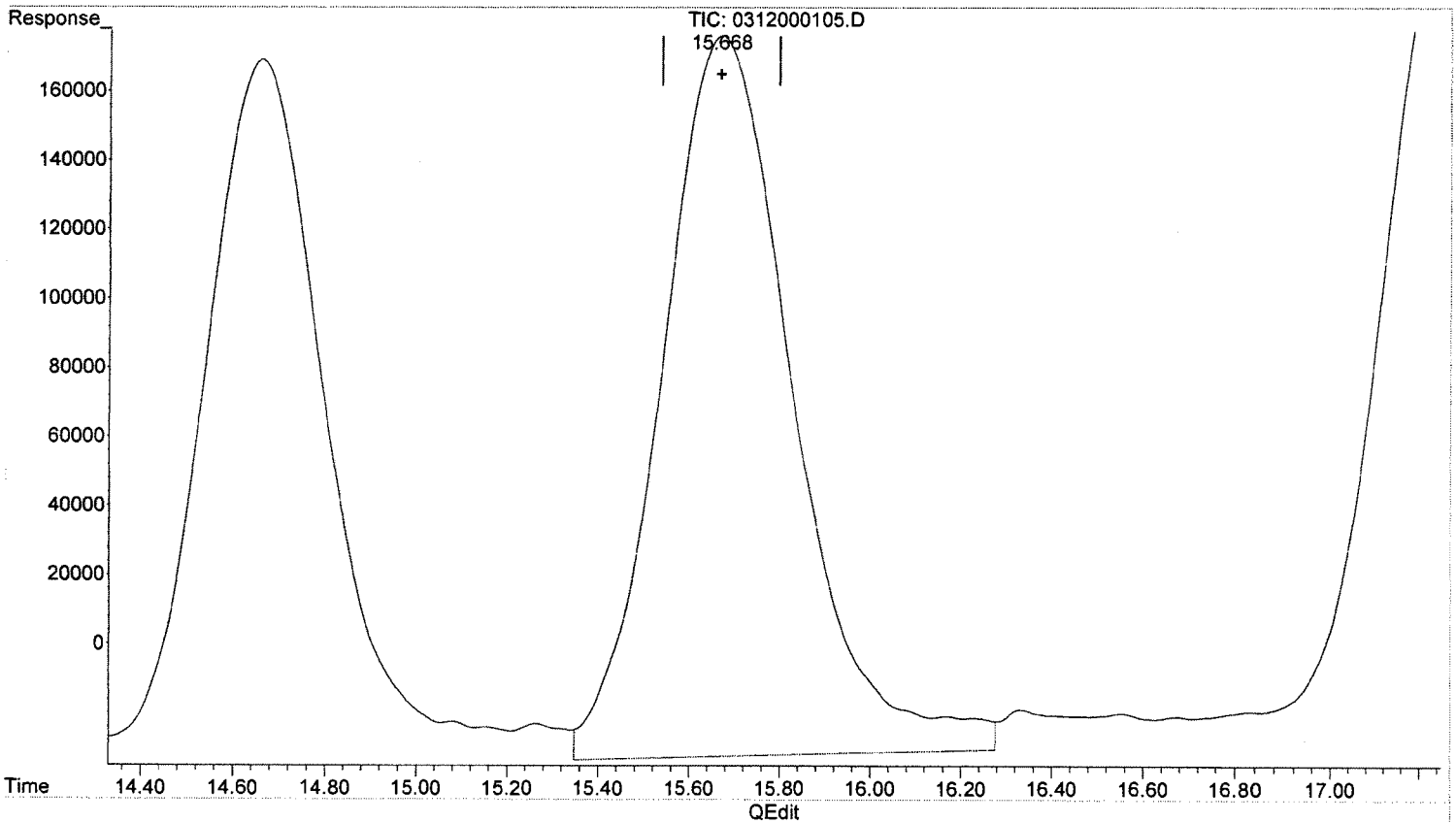
*SJ* 3-17-15

*M/S/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.668min 113.154 ug/L m  
response 4194985

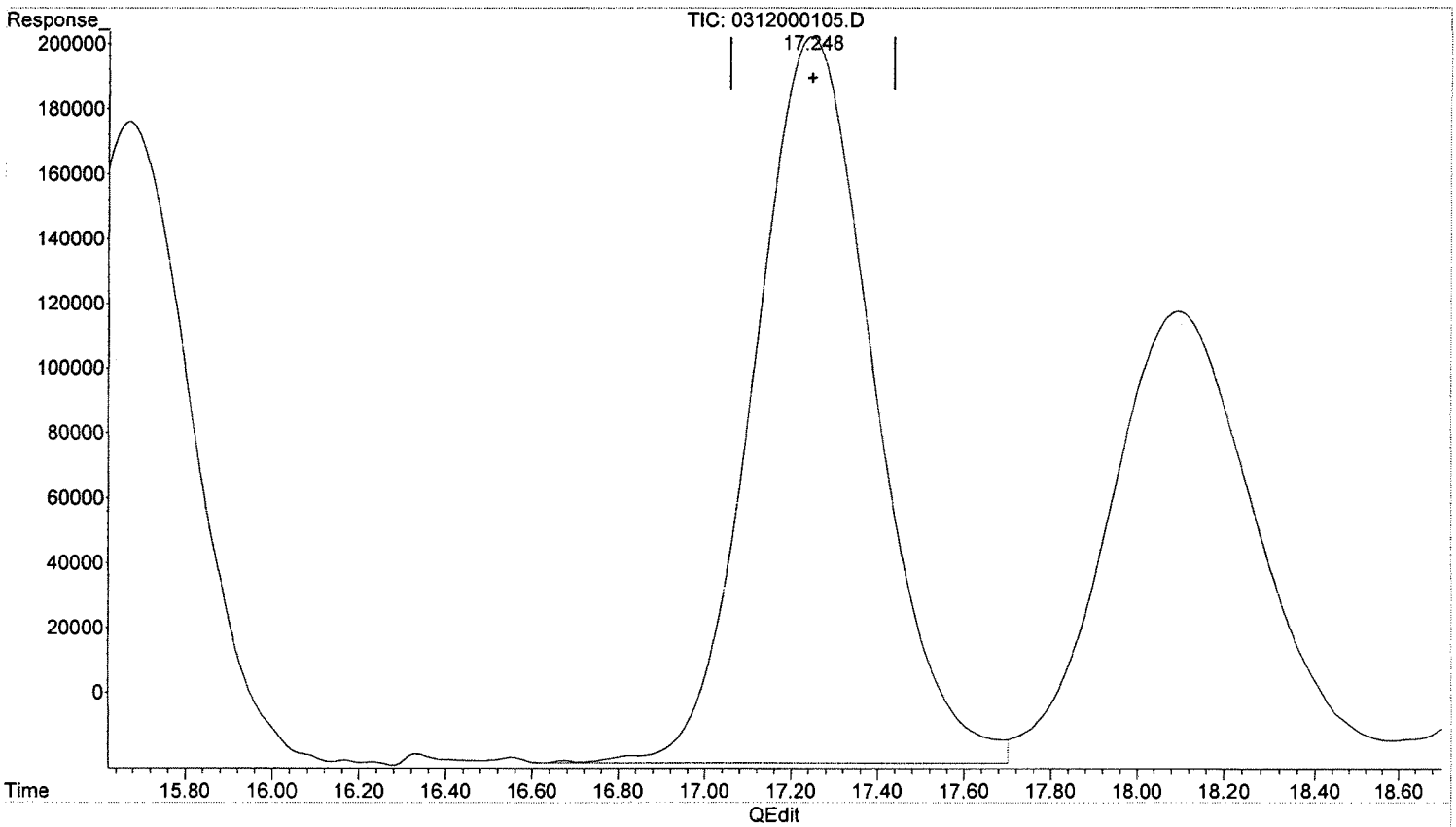
*SJ 3-17-15*  
*BL*

*M/13/2/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.248min 104.325 ug/L  
response 4304512

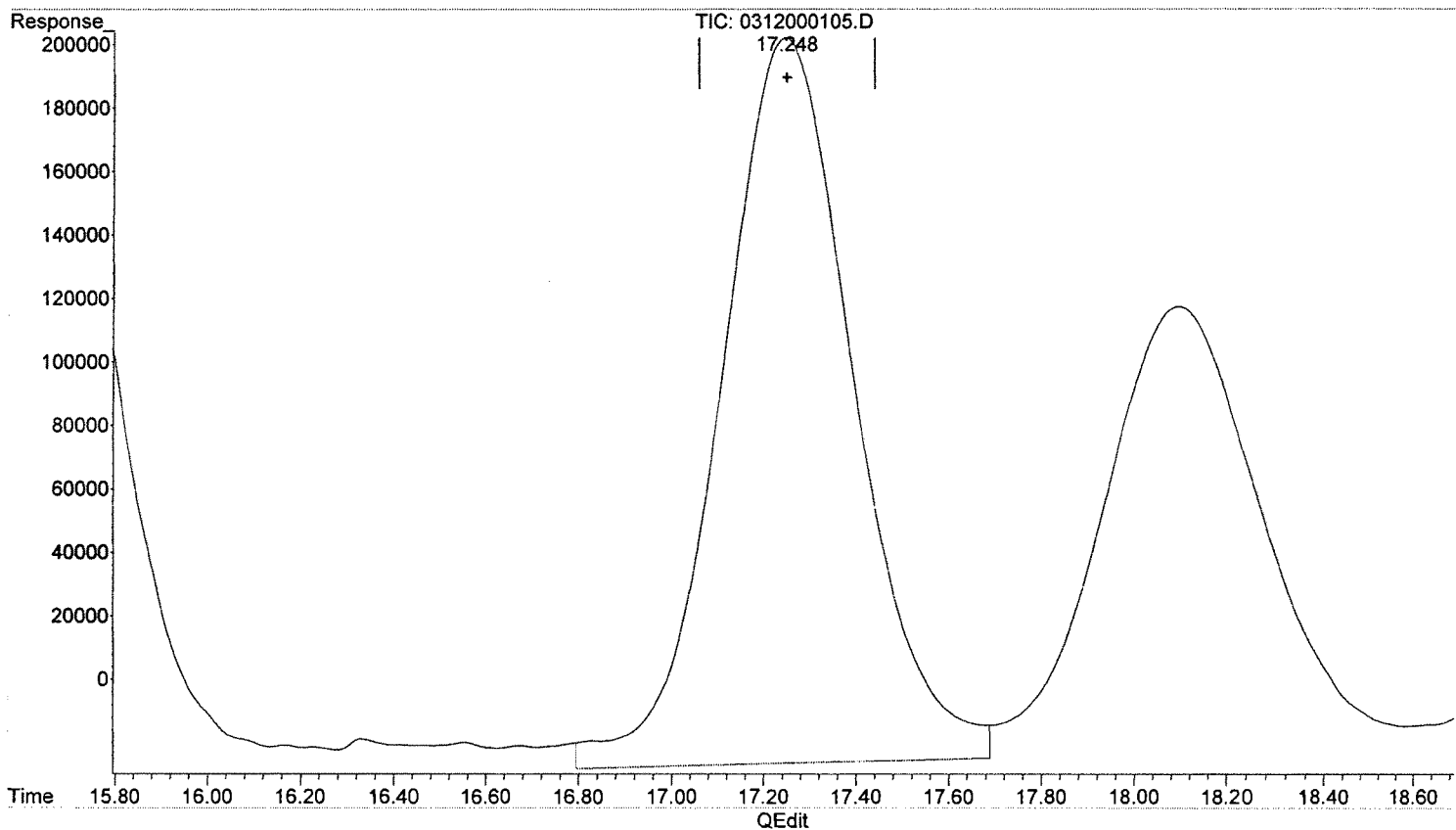
*SJ 3-17-15*

*MU 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.248min 110.260 ug/L m  
response 4549378

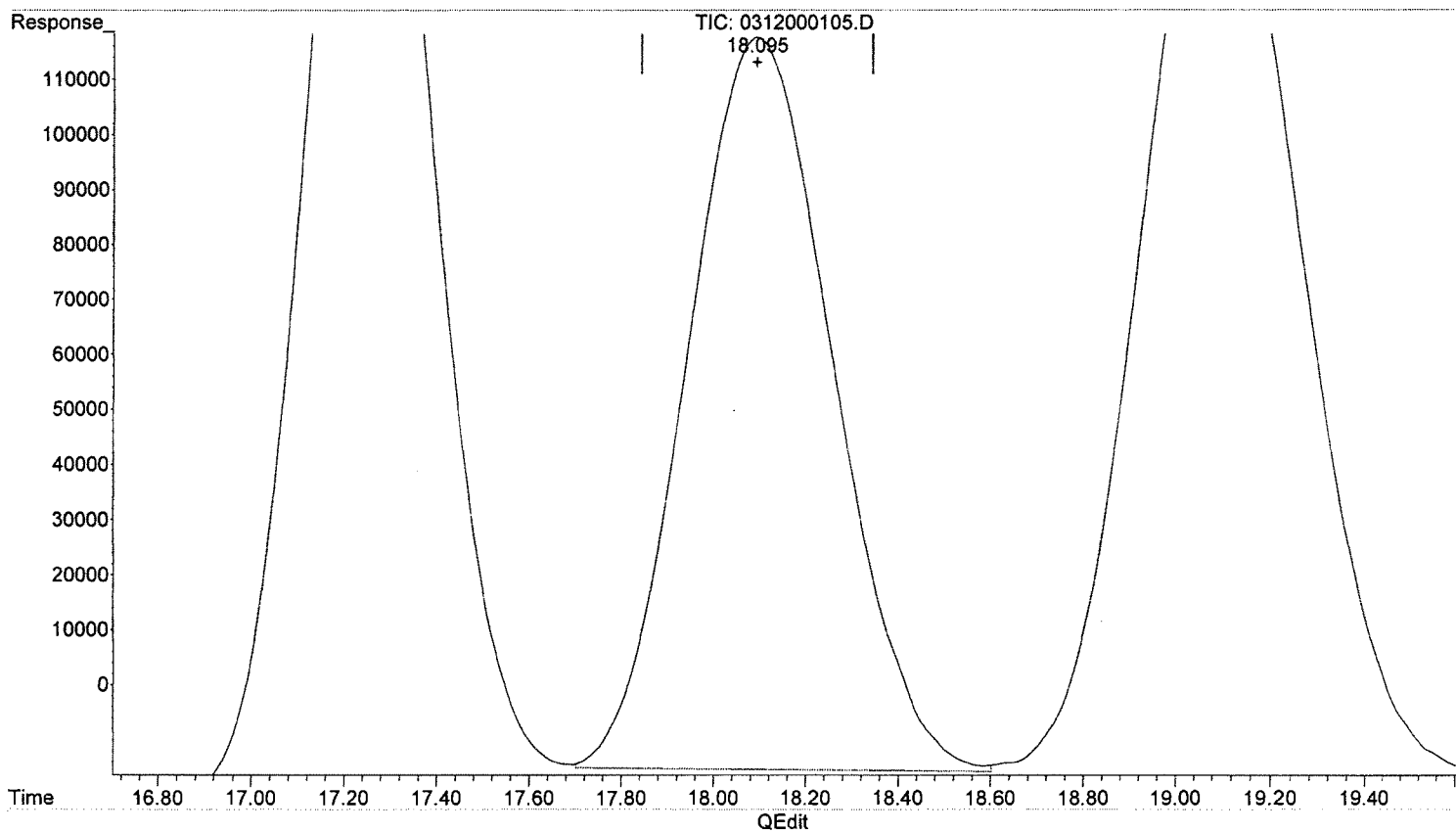
*SJ 3-17-15*  
*BL*

*M/3/15/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.095min 98.524 ug/L  
response 2906516

*SJ 3-17-15*

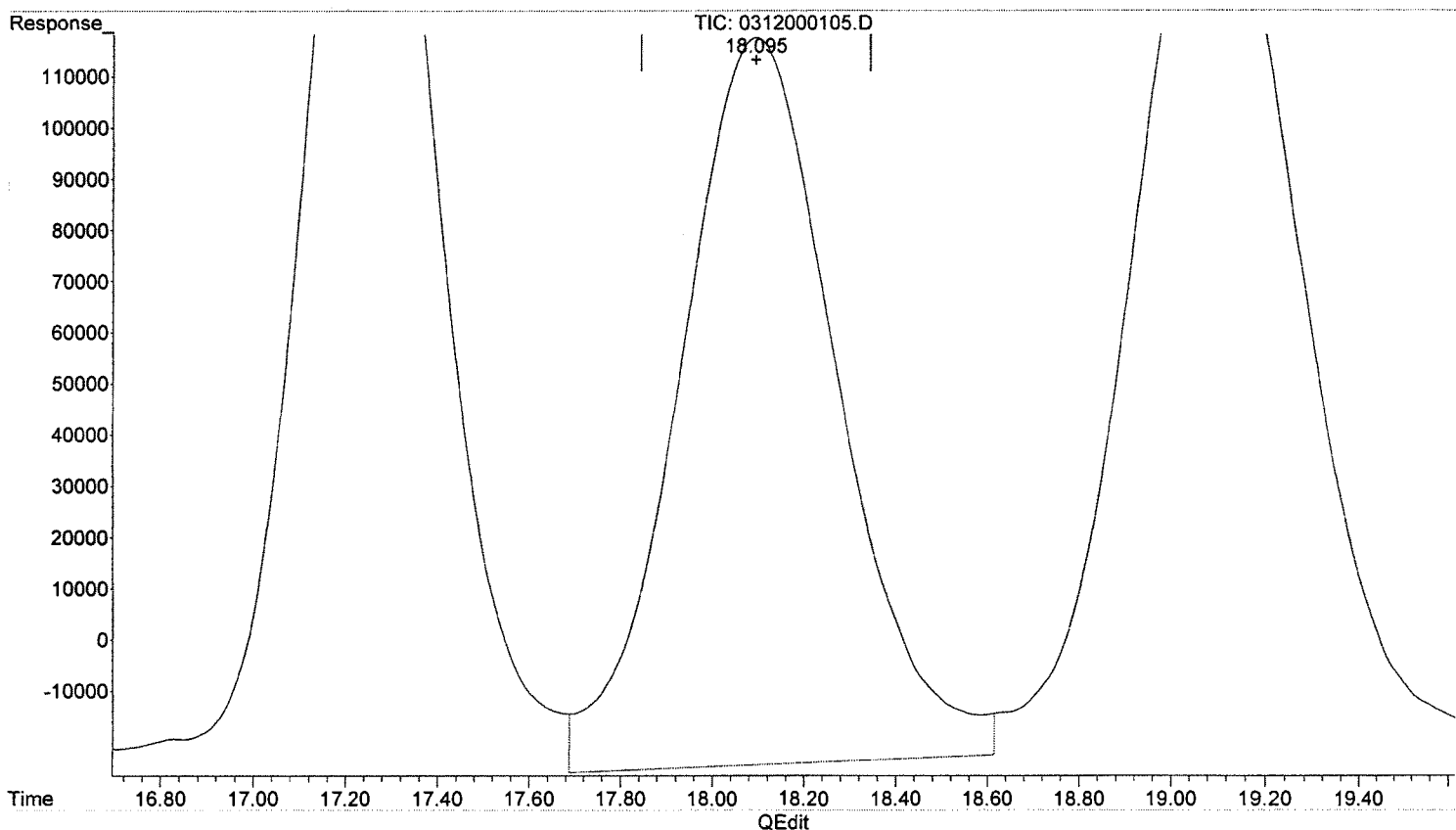
*14/3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.095min 115.148 ug/L m  
response 3396957

*SJ 3-17-15  
BC*

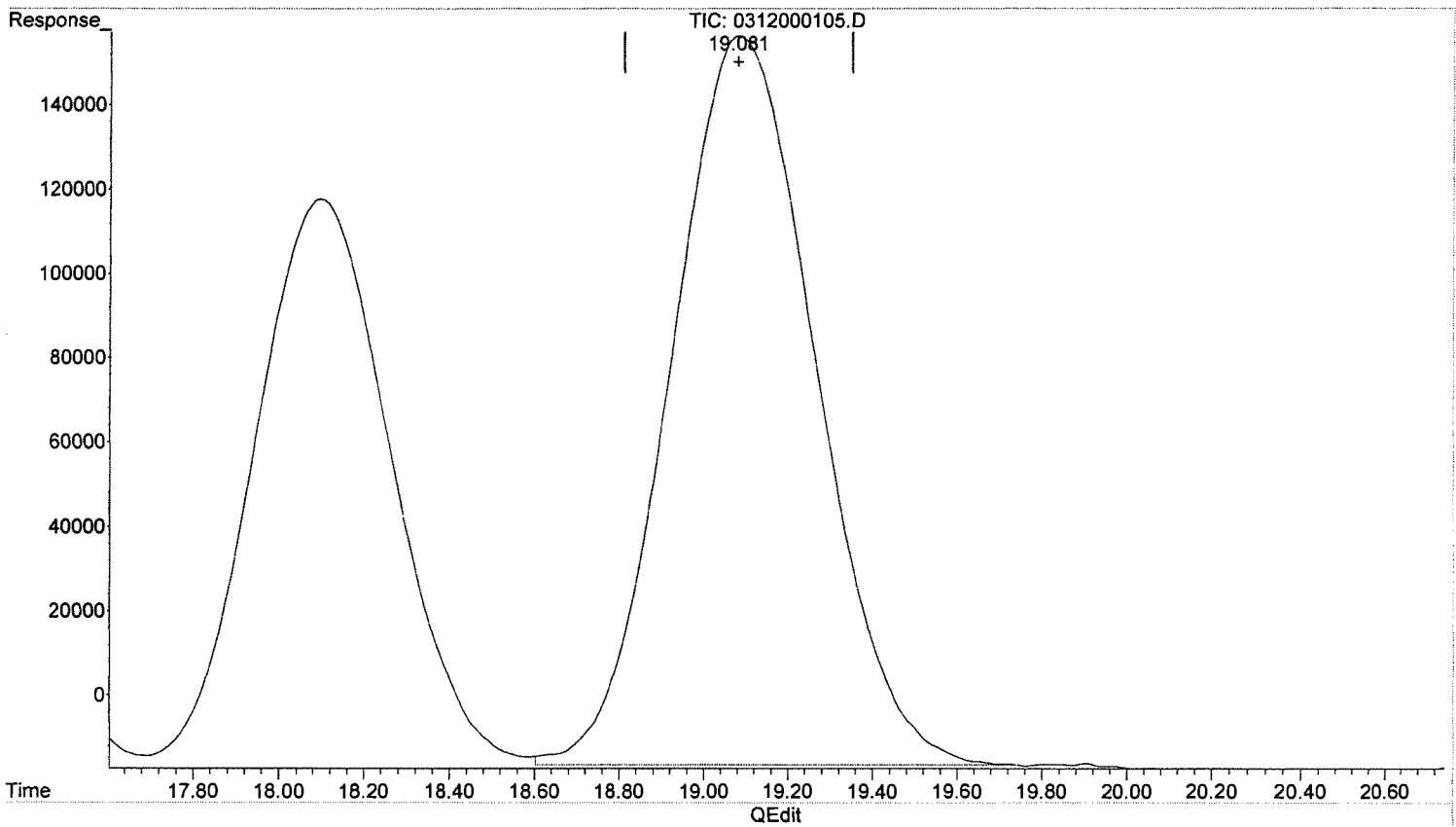
*MJ 3-24-15*

Quantitation Report (QEdit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.081min 102.041 ug/L  
response 4097033

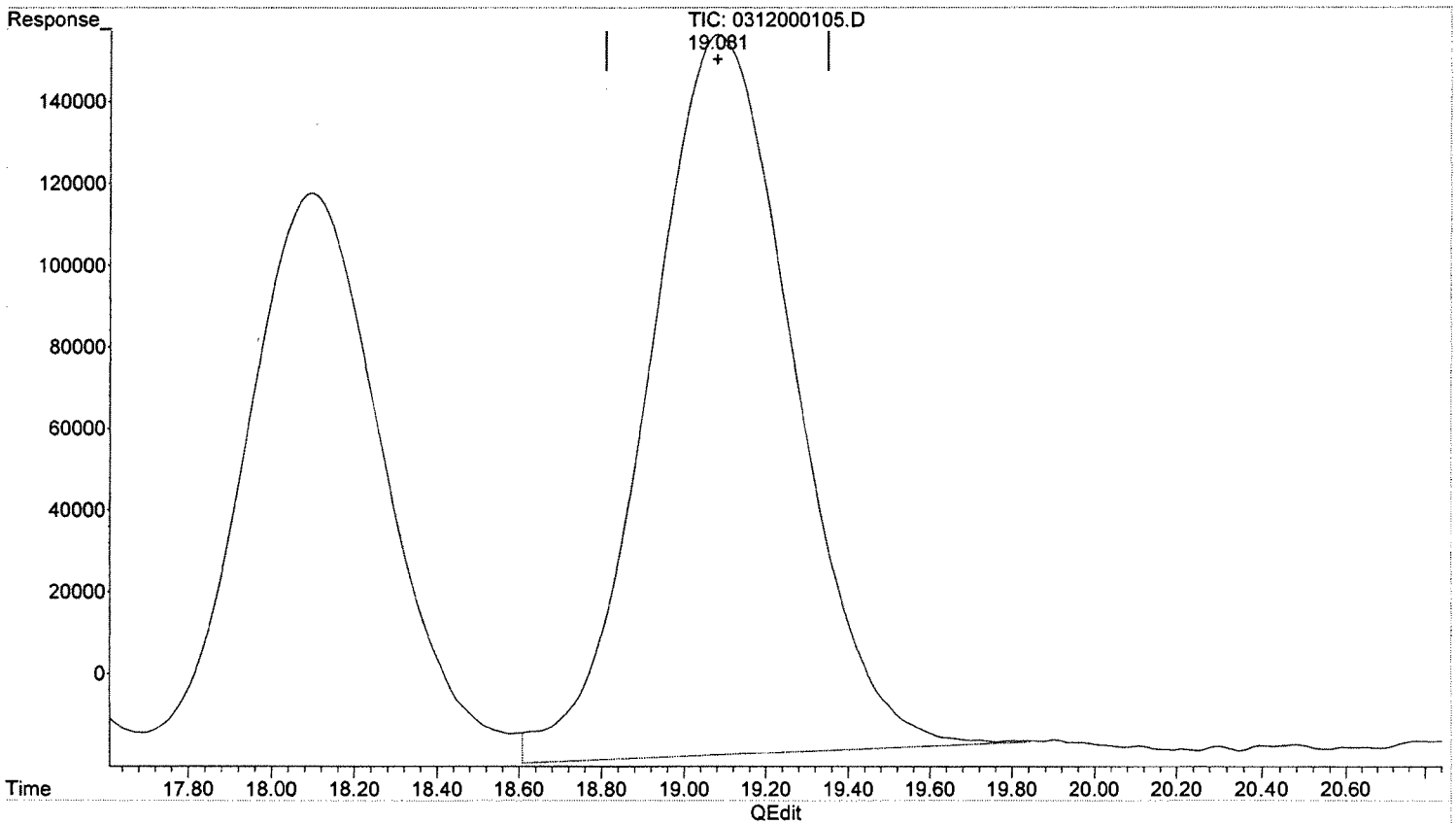
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.081min 107.196 ug/L m  
response 4304010

*SJ 3-17-15*  
*BL*

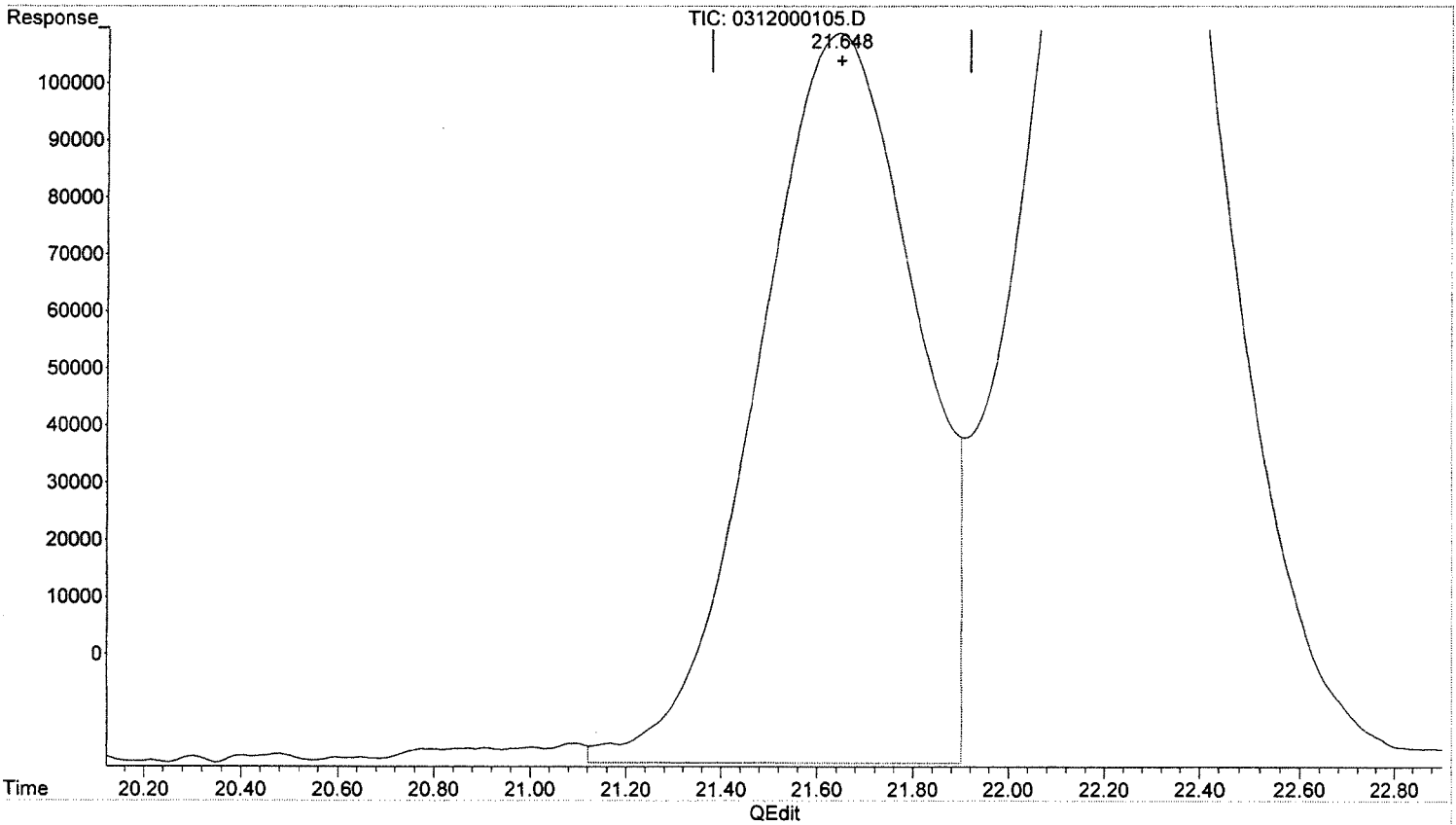
*M/3/24/13*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.648min 100.535 ug/L  
response 2931831

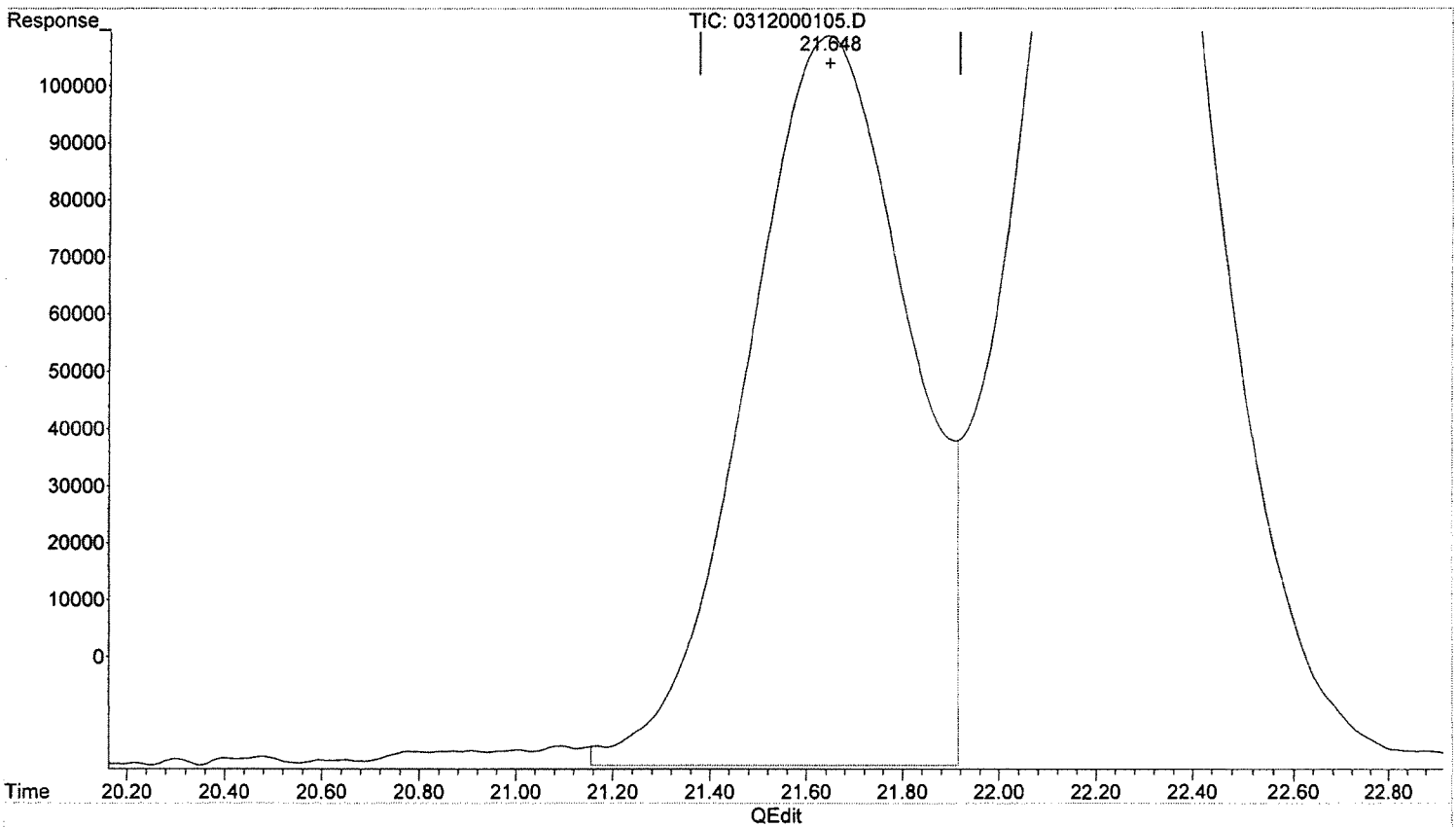
*SJ 3-17-15*

*M 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.648min 101.862 ug/L m  
response 2970524

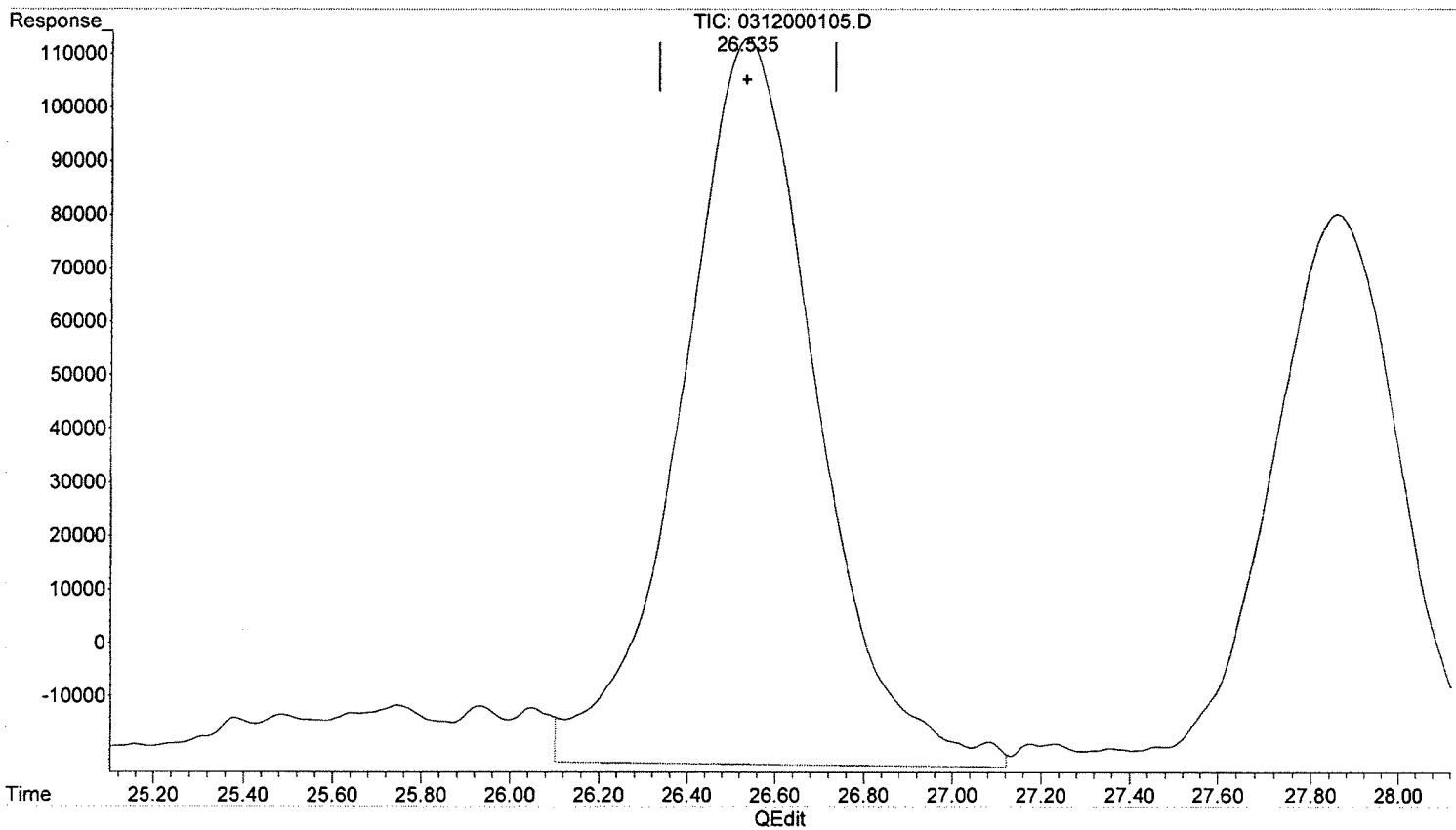
*SJ 3-17-15  
BL*

*Wpd 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.535min 117.890 ug/L  
response 2868233

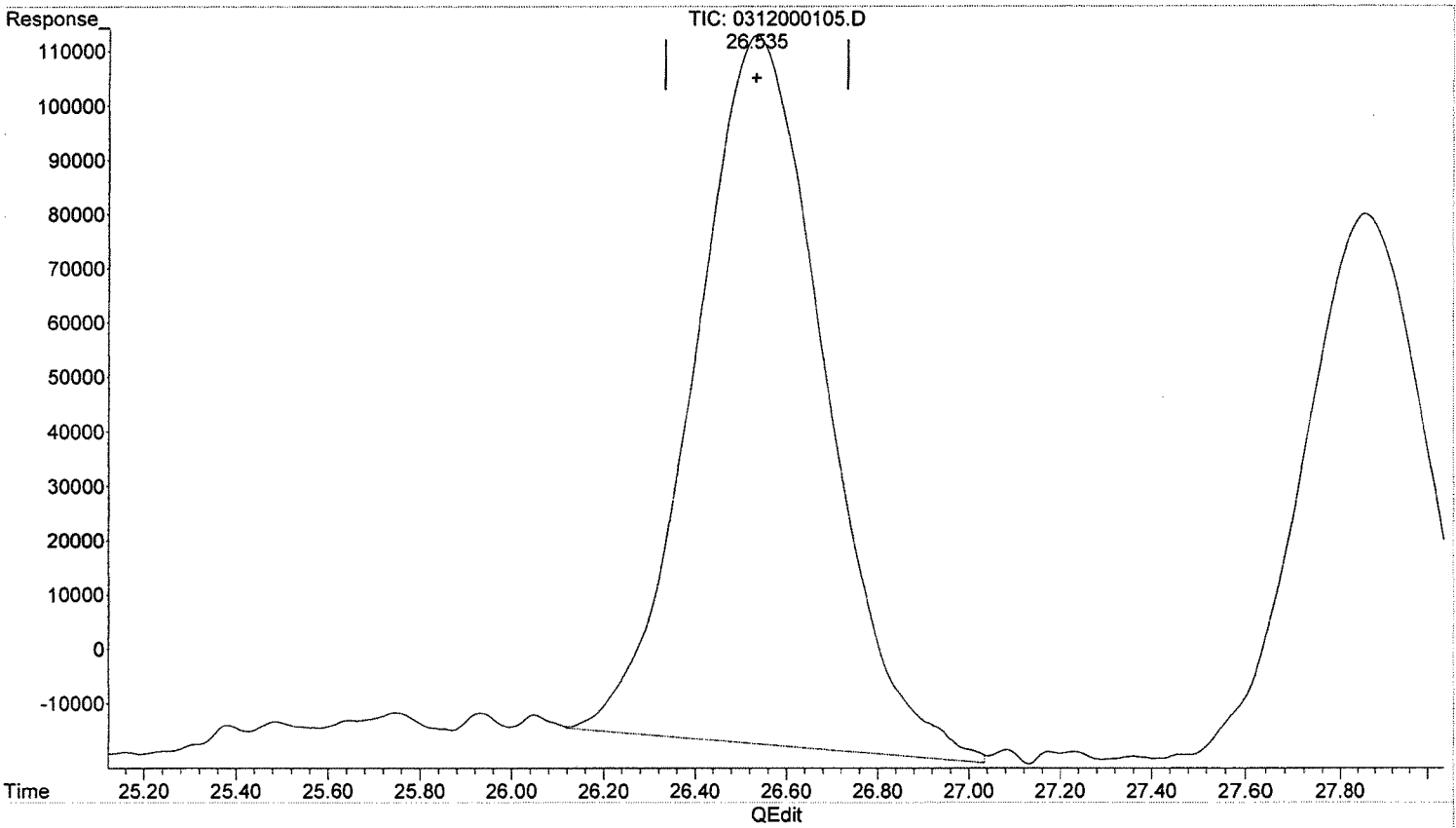
*SJ 3-17-15*

*WJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.535min 105.437 ug/L m  
response 2565258

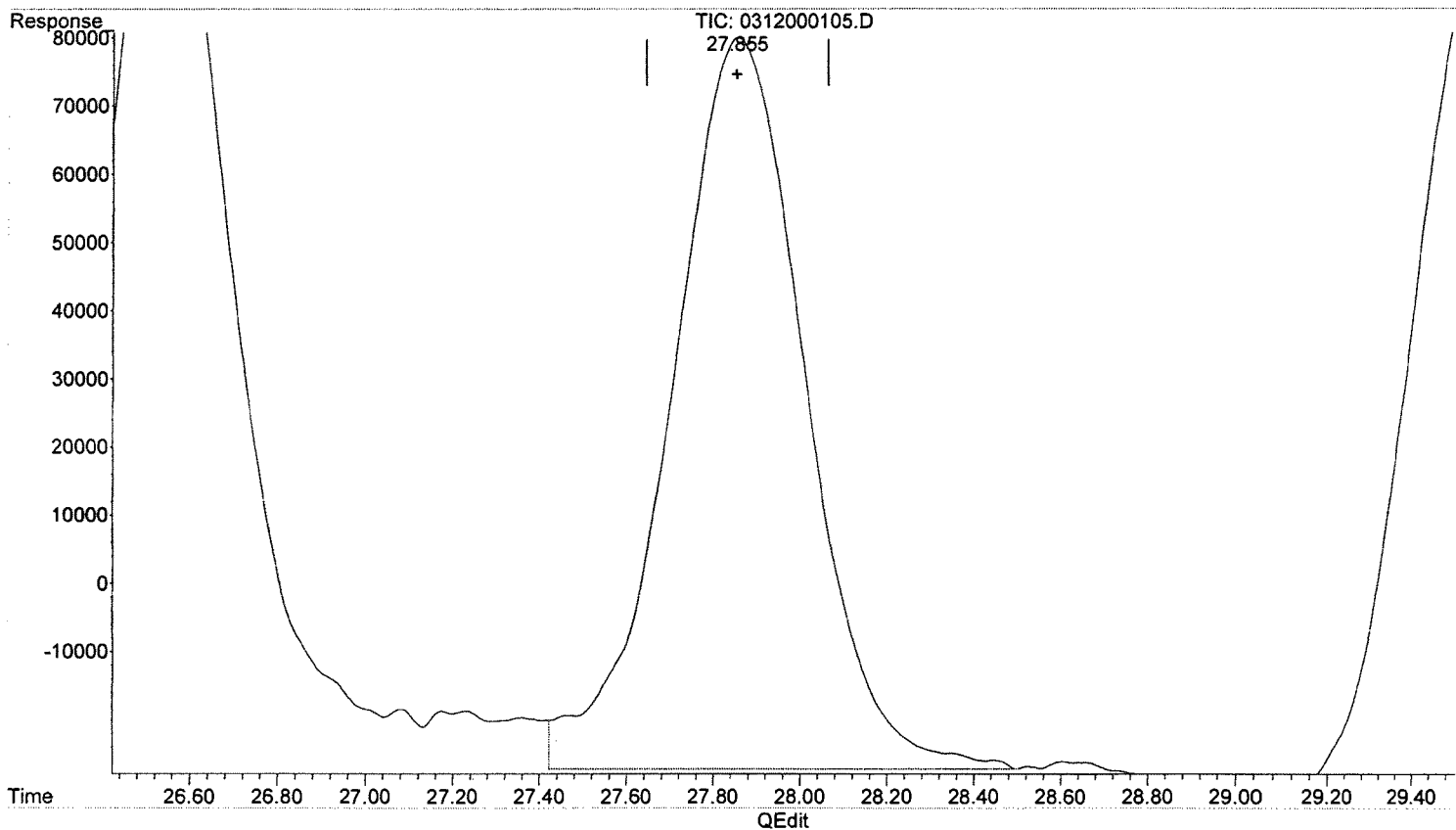
*83-17-15*  
*BL*

*2/13/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
27.855min 110.035 ug/L  
response 2293418

*SJ 3-17-15*

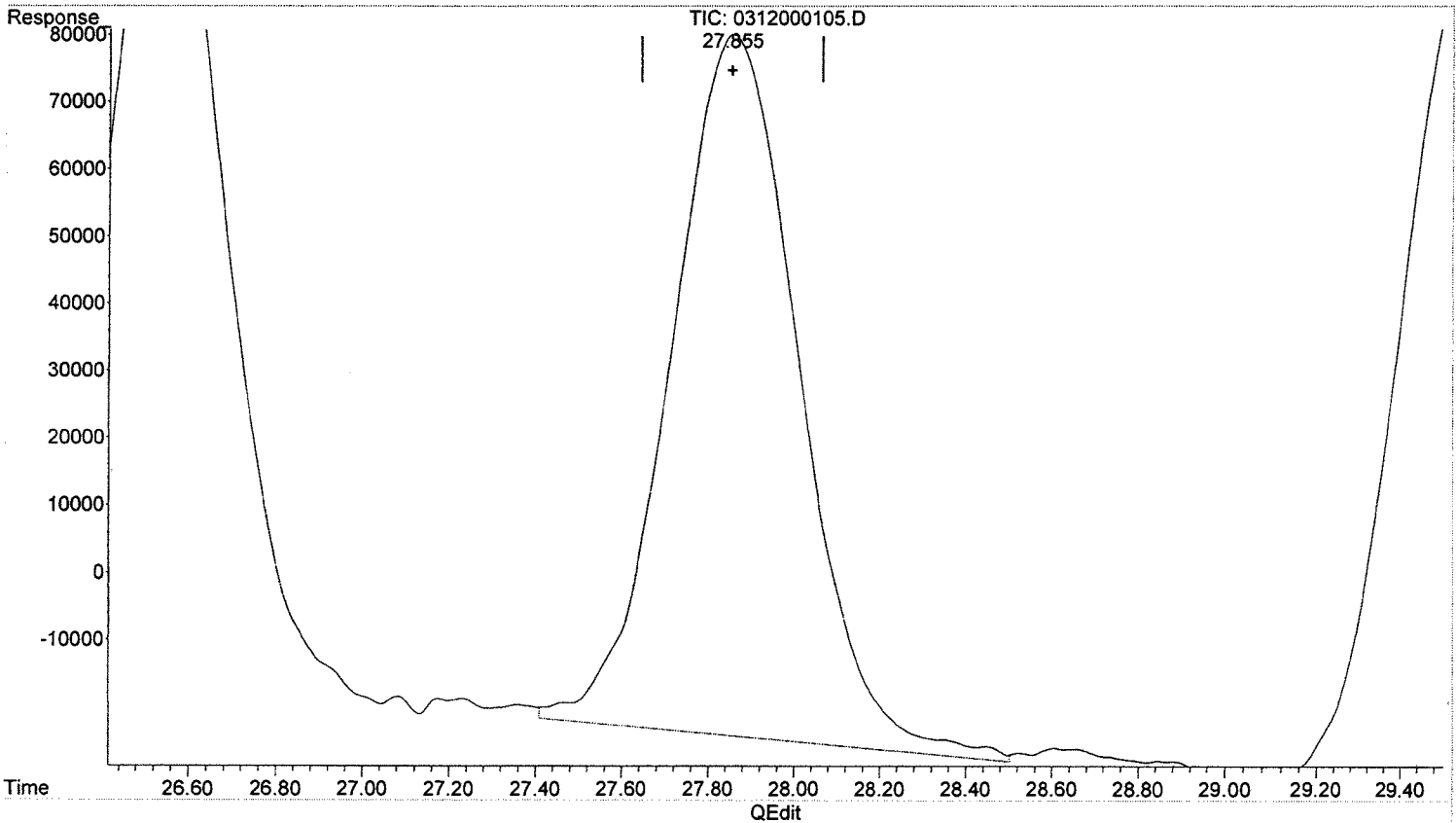
*MJL 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 12:54:22 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
27.855min 103.072 ug/L m  
response 2148306

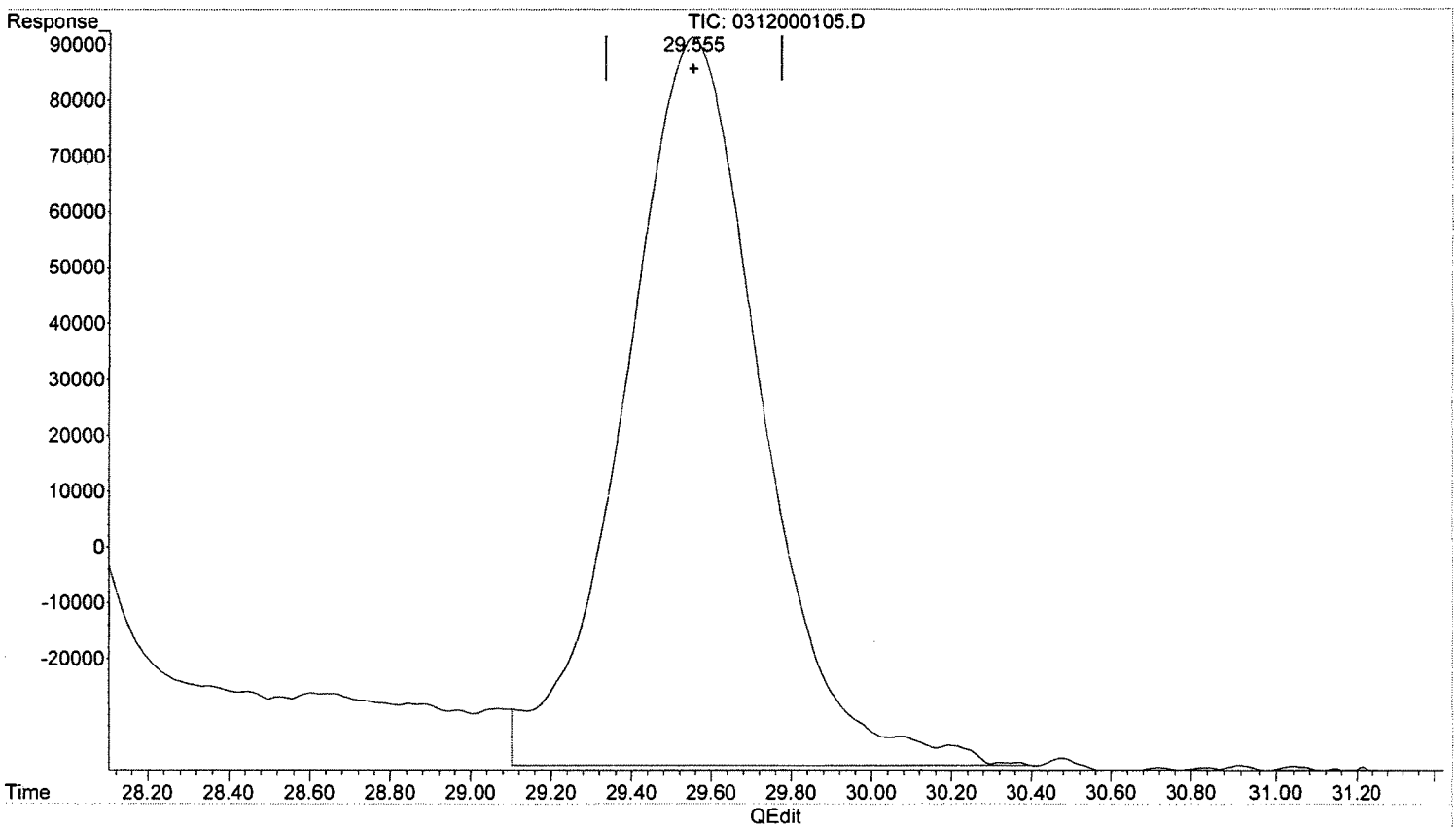
3-17-15  
BL

*Handwritten signature*  
3/24/15

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 12:52:32 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



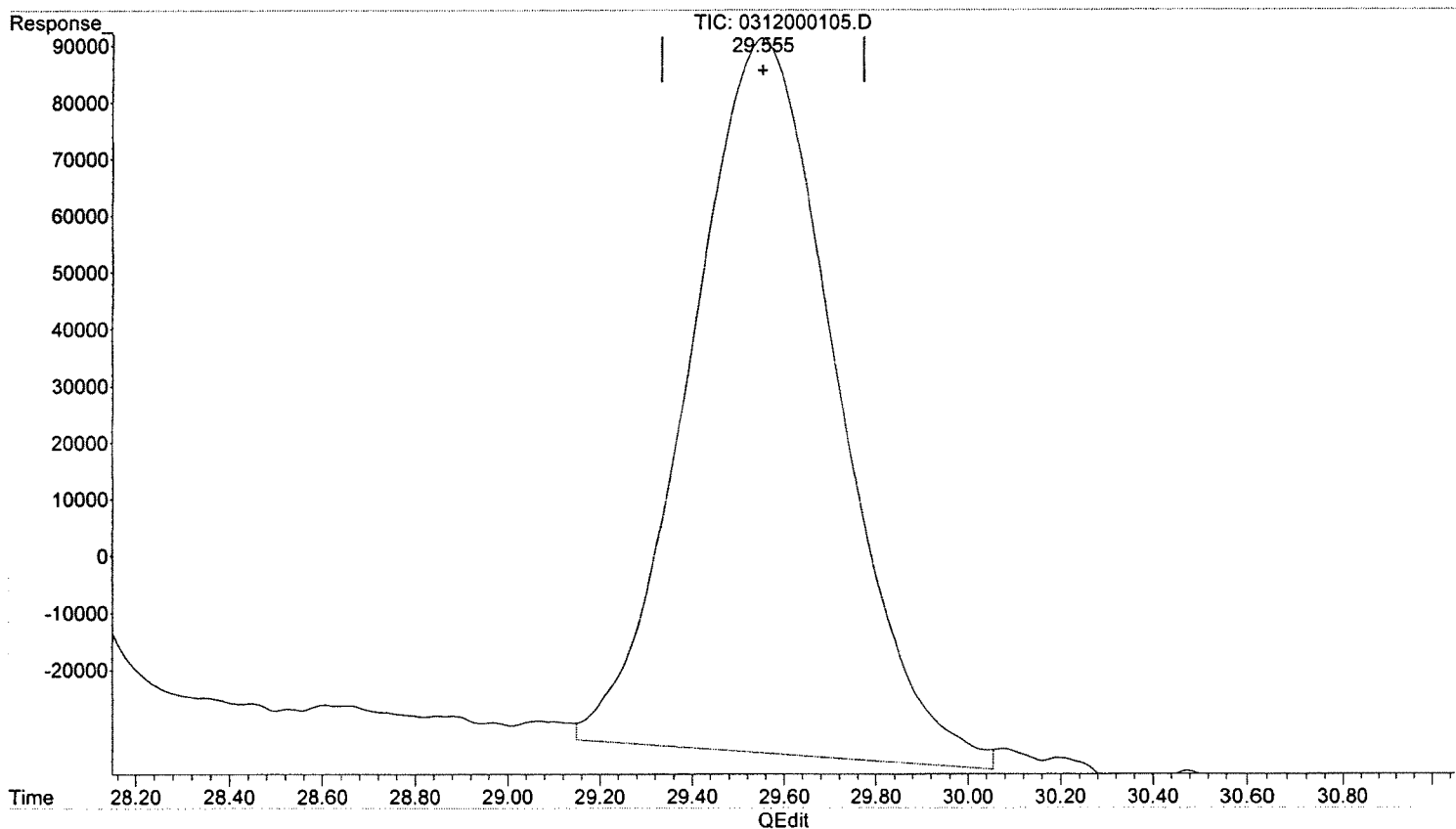
(15) 3-NT (T)  
29.555min 115.377 ug/L  
response 3082459

*SJ 3-17-15*      *MJA 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 12:52:32 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.555min 103.879 ug/L m  
response 2775291

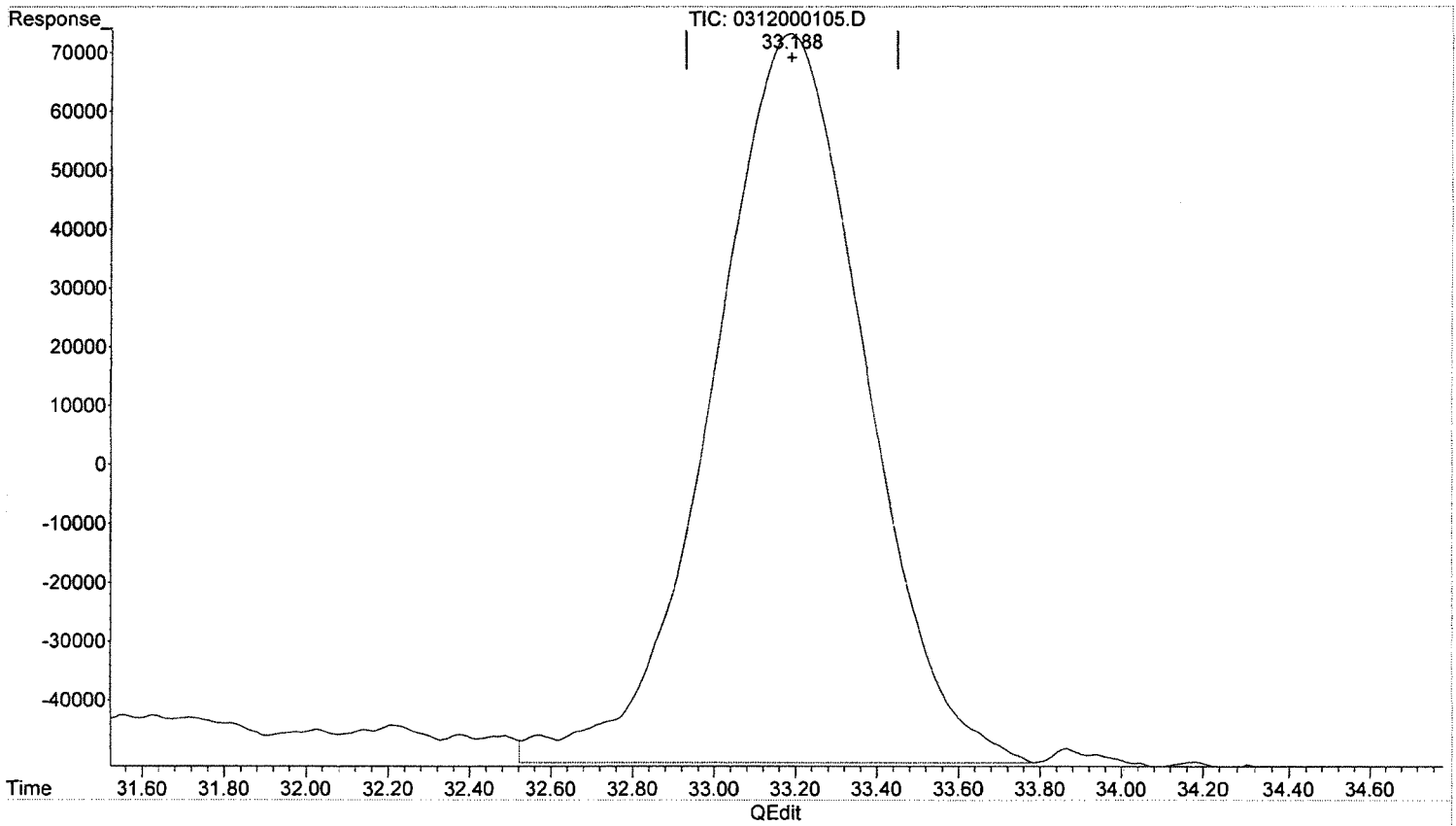
*SJ 3-17-15  
BL*

*MM 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 12:52:32 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.188min 107.039 ug/L  
response 3223430

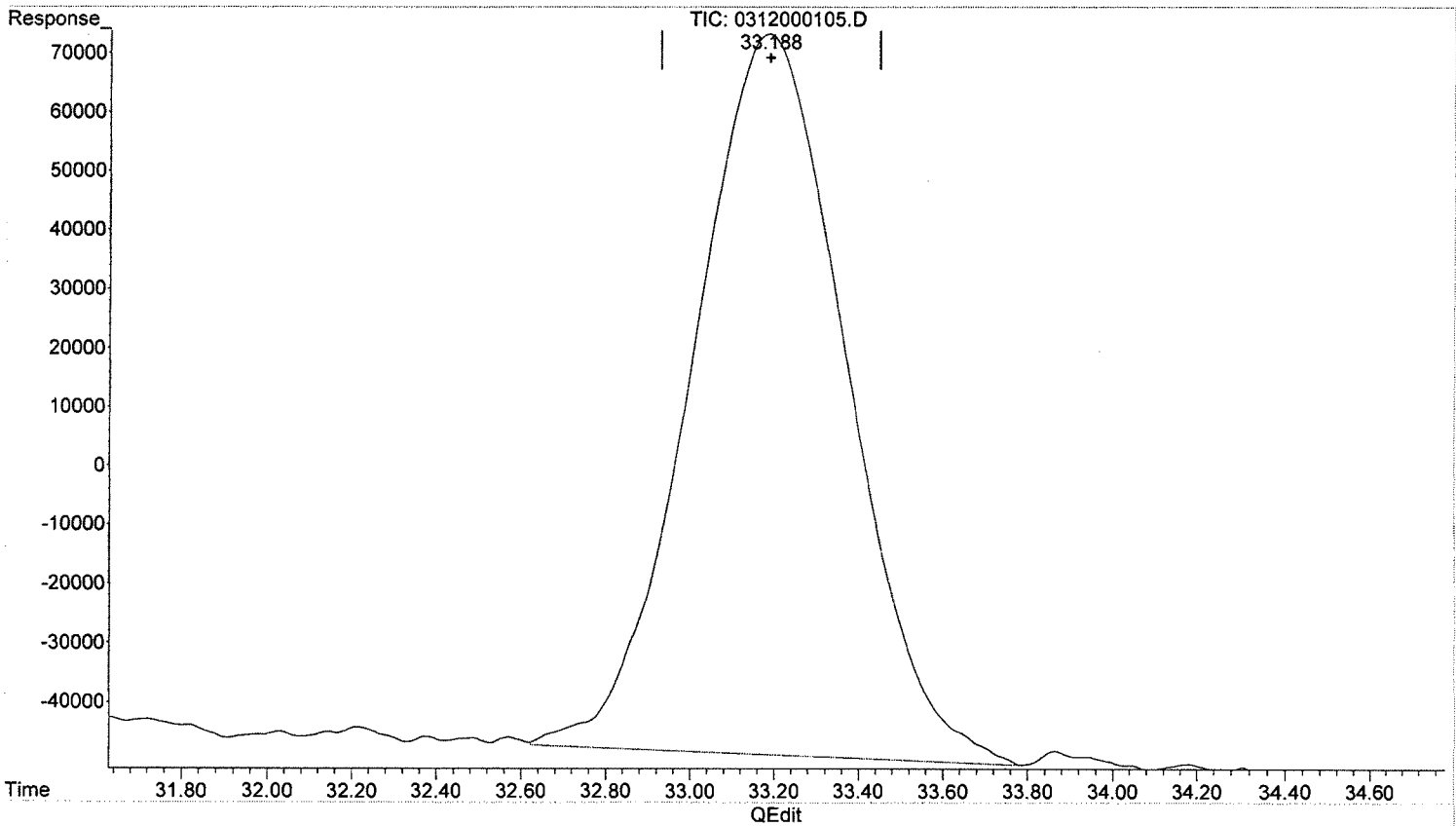
*SJ 3-17-15*

*MH 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 12:52:32 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



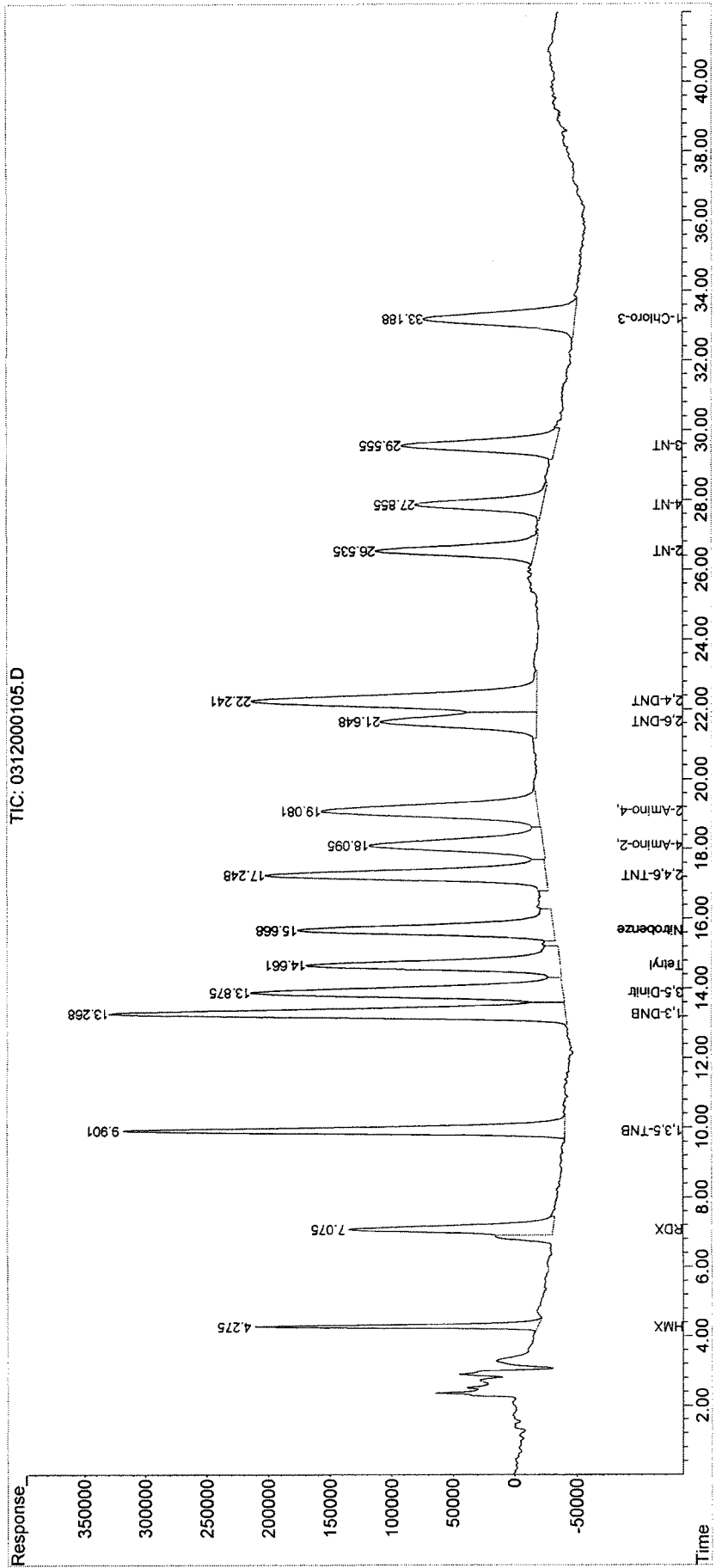
(16) 1-Chloro-3-Nitrobenzene (S)  
33.188min 102.359 ug/L m  
response 3082479

*Sf 3-17-15*  
*M/13/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000105.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 12:54:22 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CALL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000106.D  
 Signal(s) : DAD1A.ch  
 Acq On : 12-Mar-2015, 21:09:47  
 Operator : SJ  
 Sample : 14-OLC-01-52D 200PPB  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 13:05:02 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 QLast Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.228	5873227	195.030 ug/L m
Target Compounds			
1) T HMX	4.274	2951696	192.244 ug/L m
2) T RDX	7.081	4192033	208.438 ug/L m
3) T 1,3,5-TNB	9.914	8662563	195.142 ug/L
4) T 1,3-DNB	13.301	11700860	192.445 ug/L
5) T 3,5-Dinitroaniline	13.901	8908207	183.548 ug/L
6) T Tetryl	14.688	6454060	198.271 ug/L
7) T Nitrobenzene	15.694	7303700	197.007 ug/L
8) T 2,4,6-TNT	17.274	7955344	192.808 ug/L m
9) T 4-Amino-2,6-DNT	18.128	5884772	199.479 ug/L m
10) T 2-Amino-4,6-DNT	19.121	7990692	199.017 ug/L m
11) T 2,6-DNT	21.681	5422798	185.952 ug/L m
12) T 2,4-DNT	22.281	10571793	194.567 ug/L m
13) T 2-NT	26.574	4729824	194.405 ug/L m
14) T 4-NT	27.901	4213346	202.150 ug/L m
15) T 3-NT	29.594	5556068	207.964 ug/L m

(f)=RT Delta > 1/2 Window

(m)=manual int.

*SJ 3-17-15*

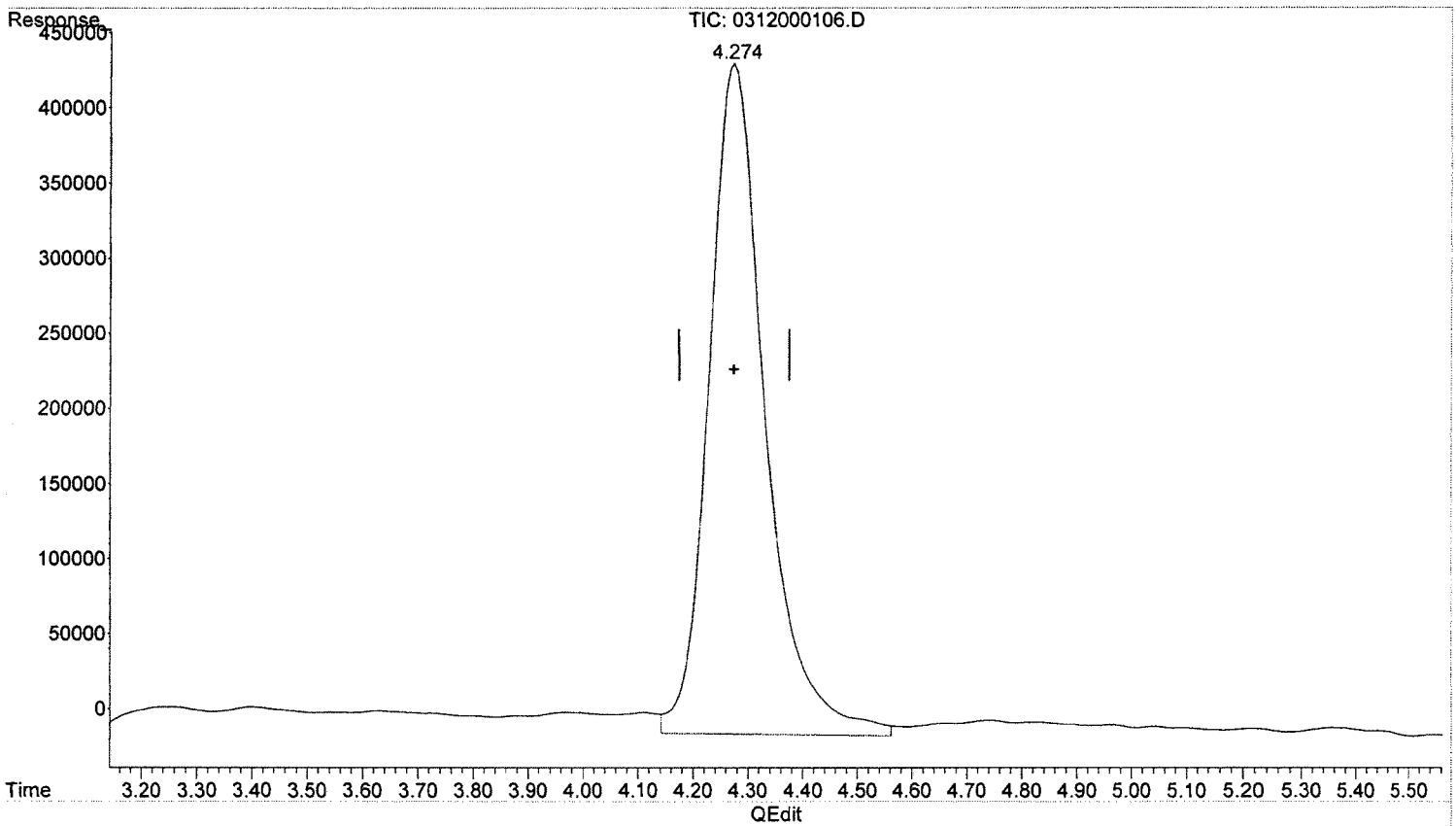
*M/L 3/24/15*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.274min 207.822 ug/L  
response 3190887

*SJ 3-17-15*

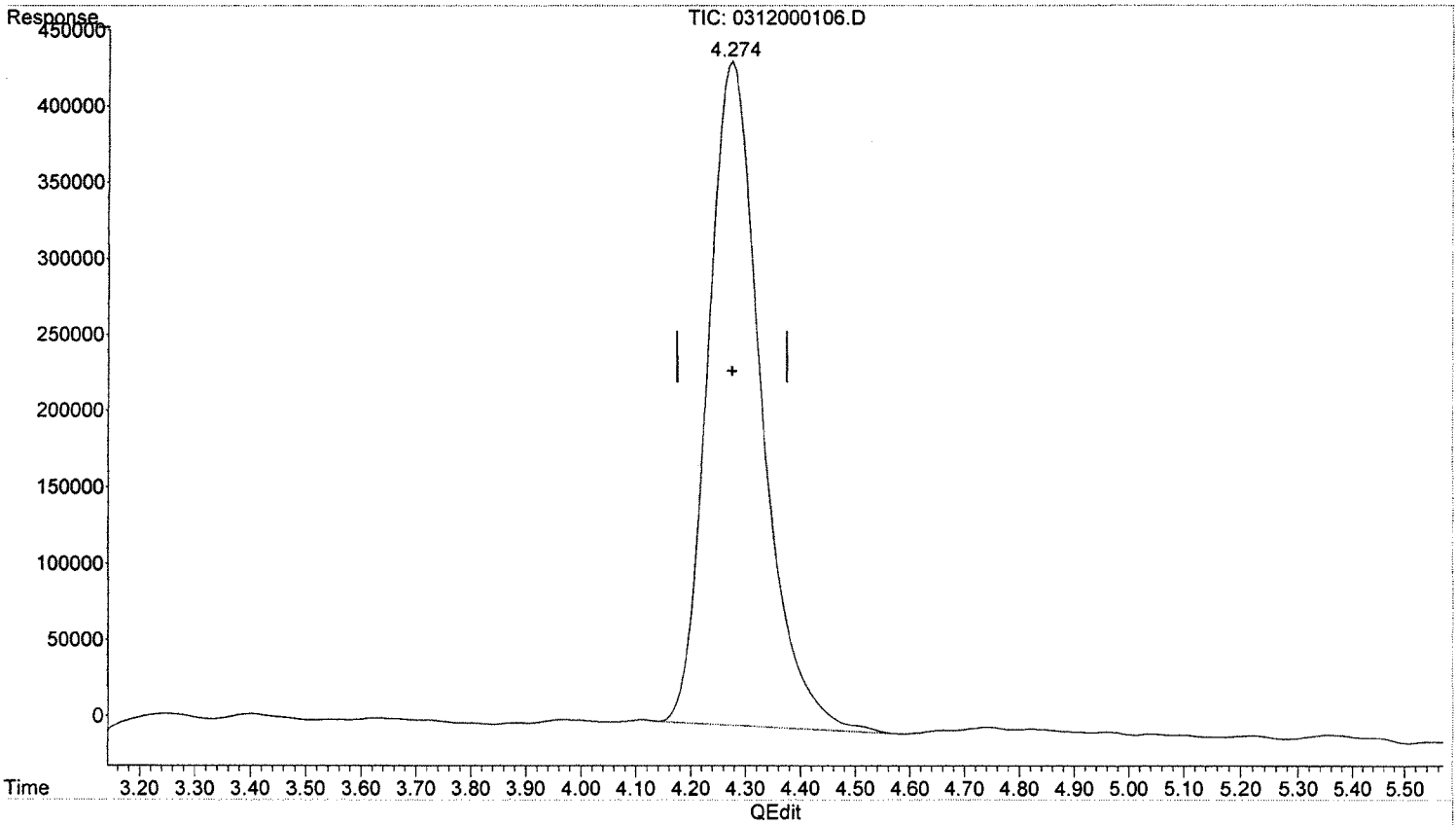
*M/L 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



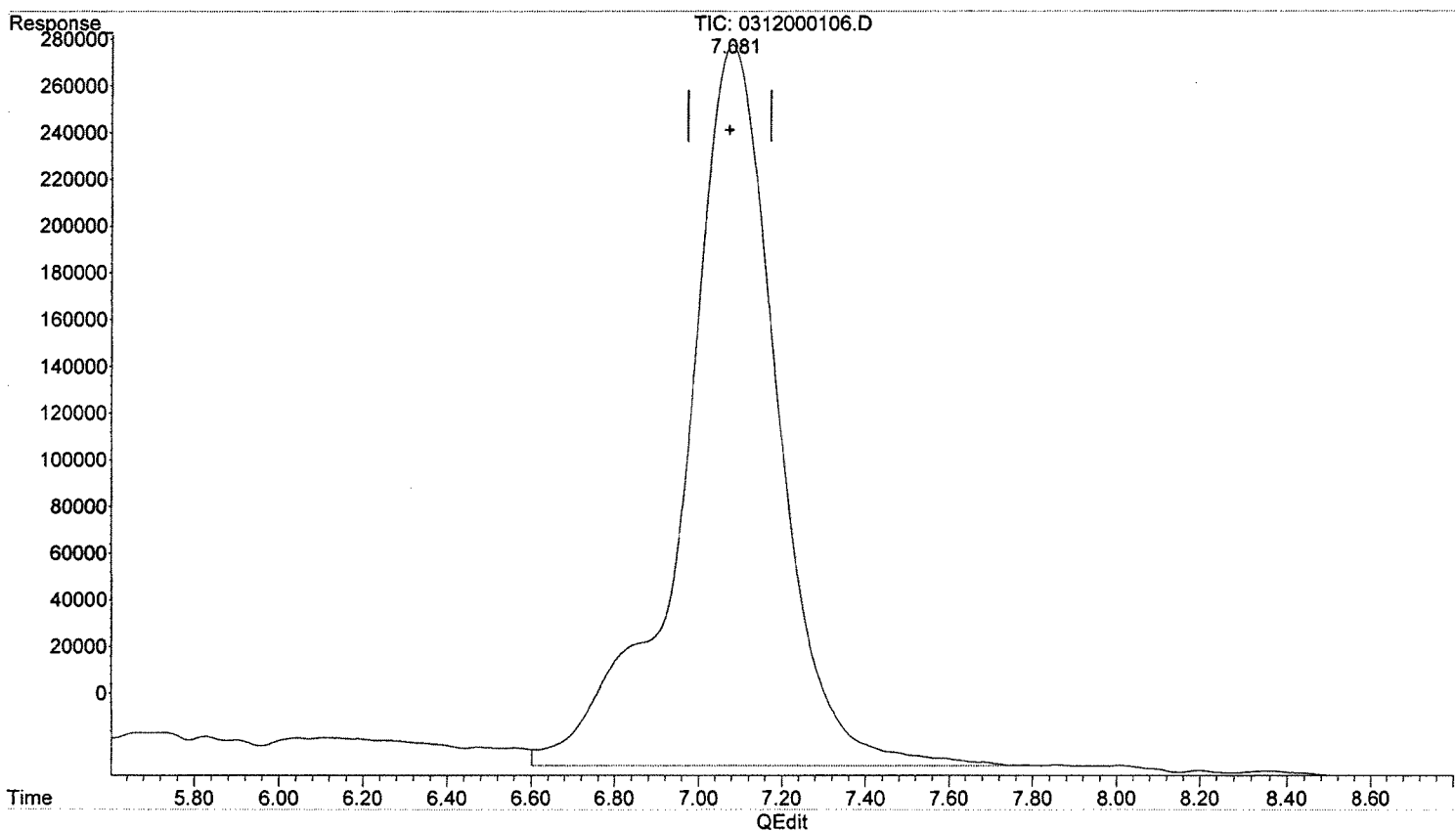
(1) HMX (T)  
4.274min 192.244 ug/L m  
response 2951696

*3-17-15*  
*BL*  
*mpl 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.081min 238.232 ug/L  
response 4791246

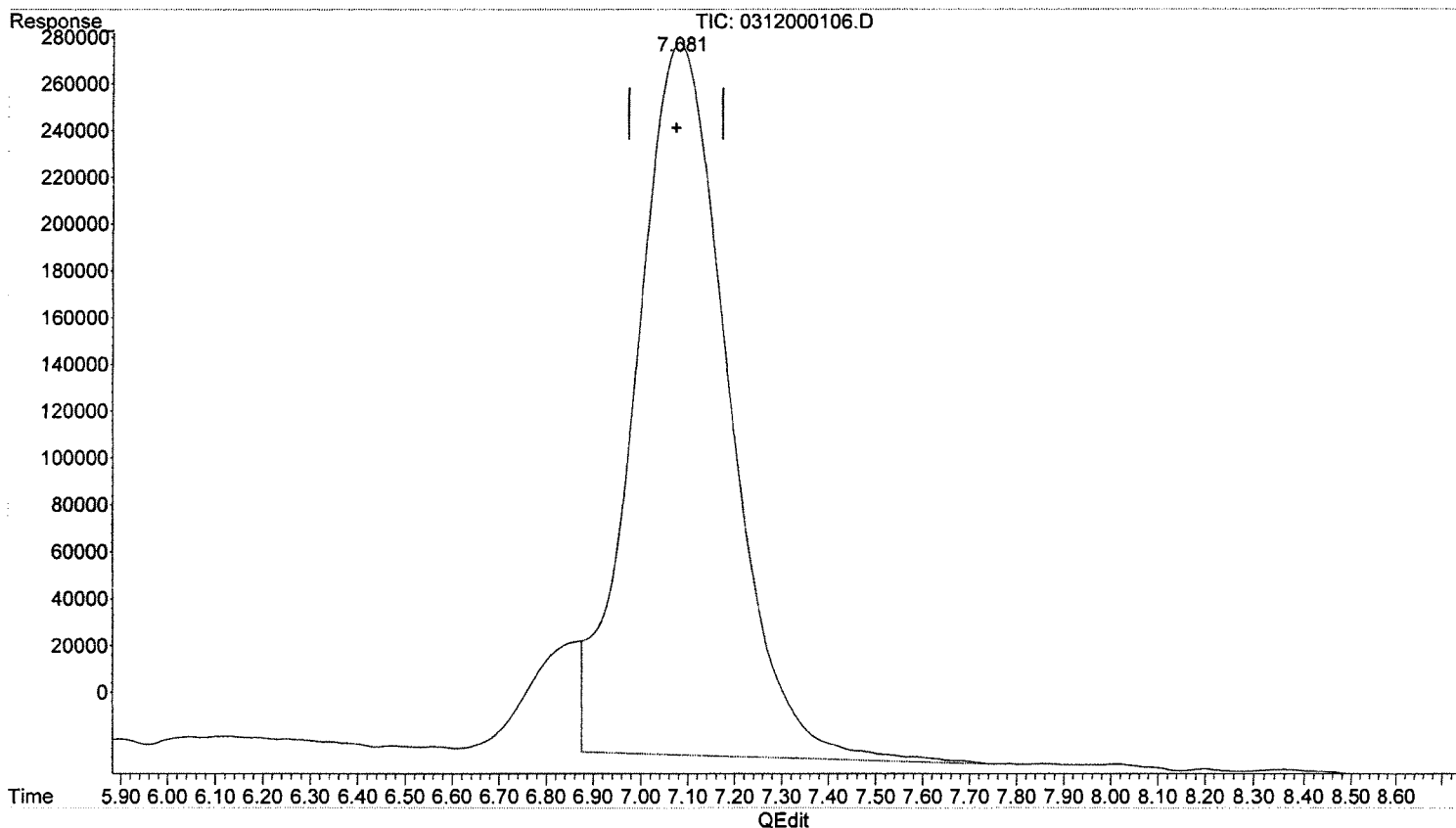
*SJ 3-17-15*

*ML 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.081min 208.438 ug/L m  
response 4192033

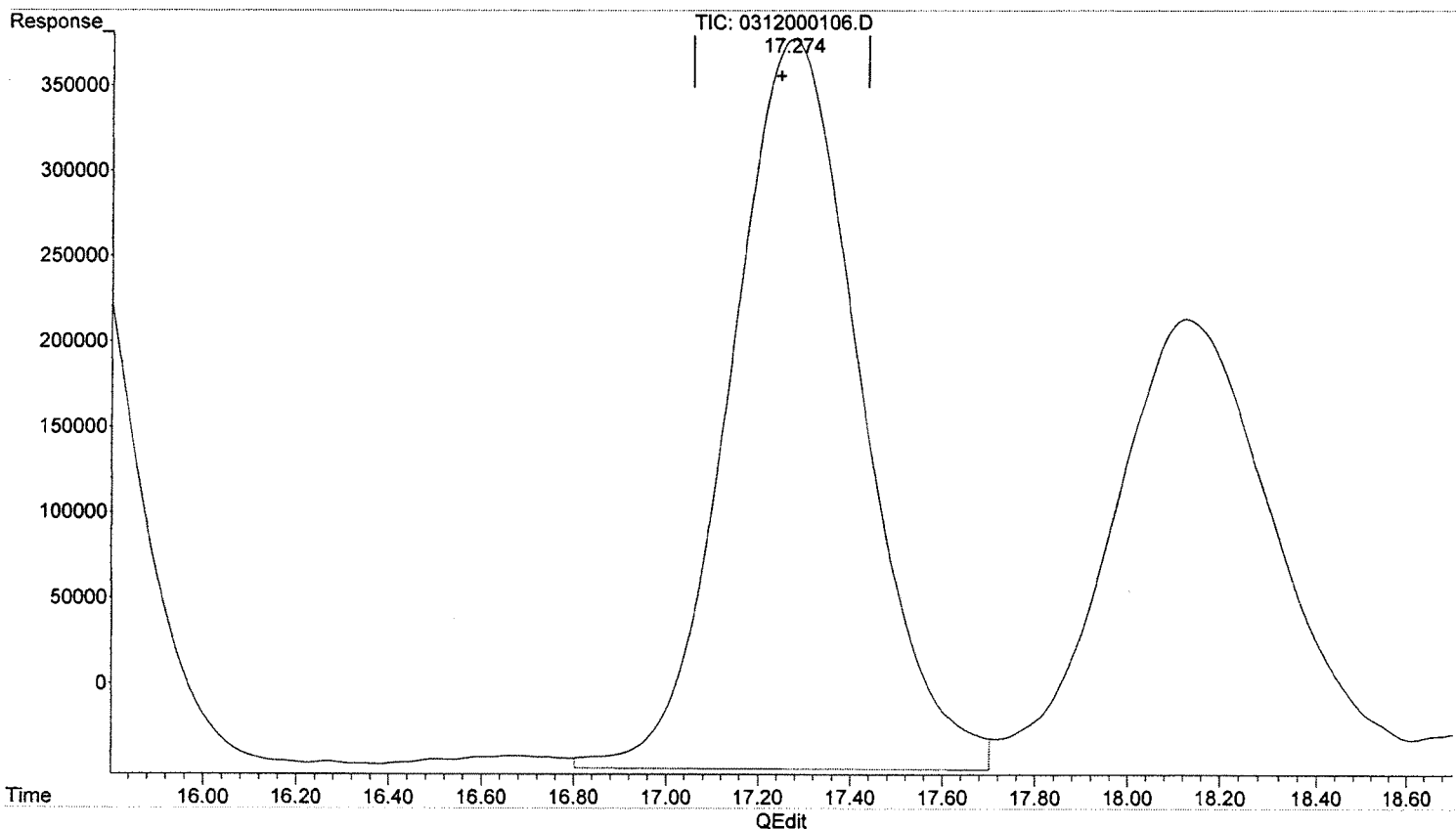
*SJ 3-17-15  
BL*

*apl 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.274min 202.329 ug/L  
response 8348169

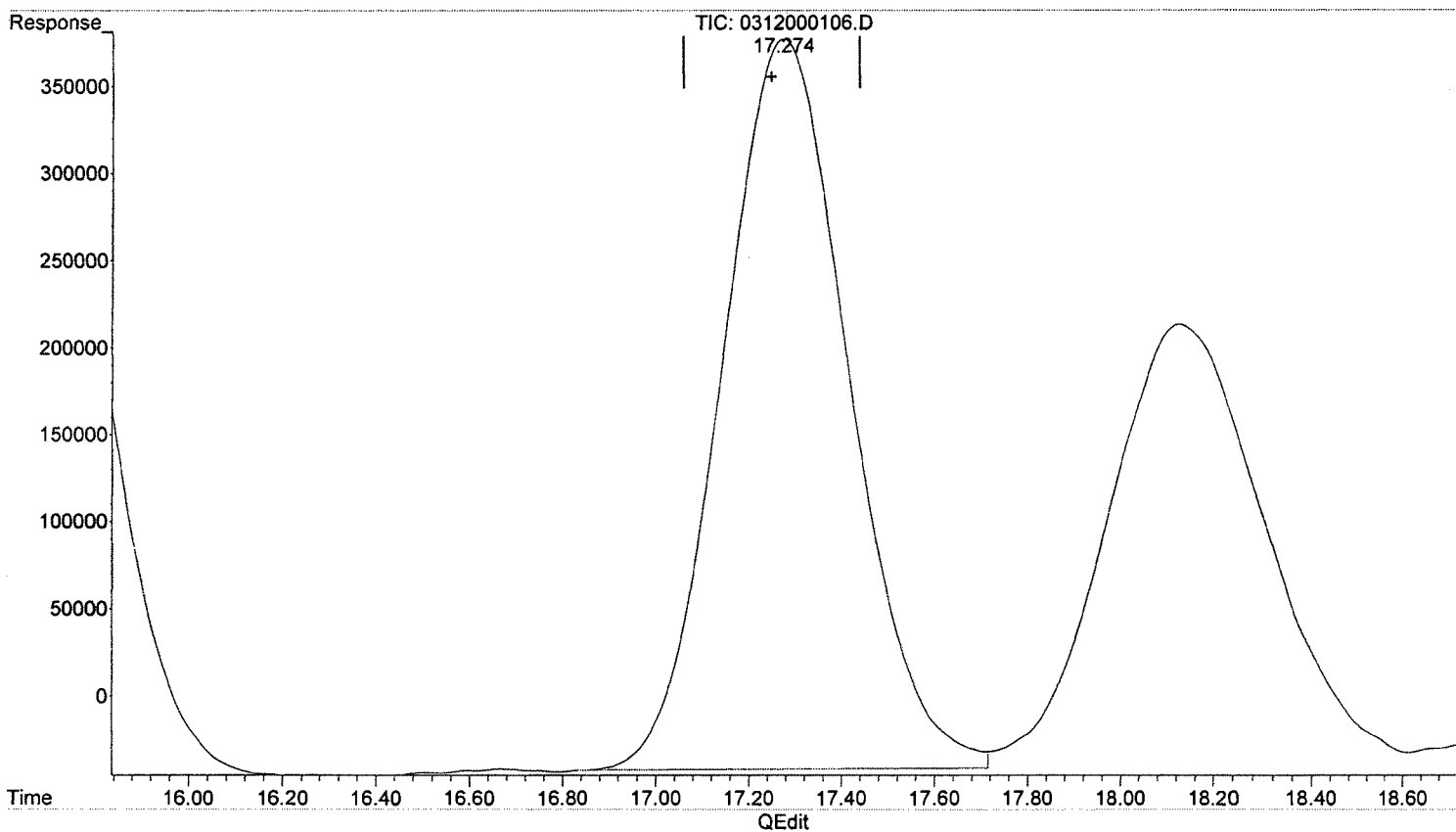
*SJ 3/17/15*

*MH 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.274min 192.808 ug/L m  
response 7955344

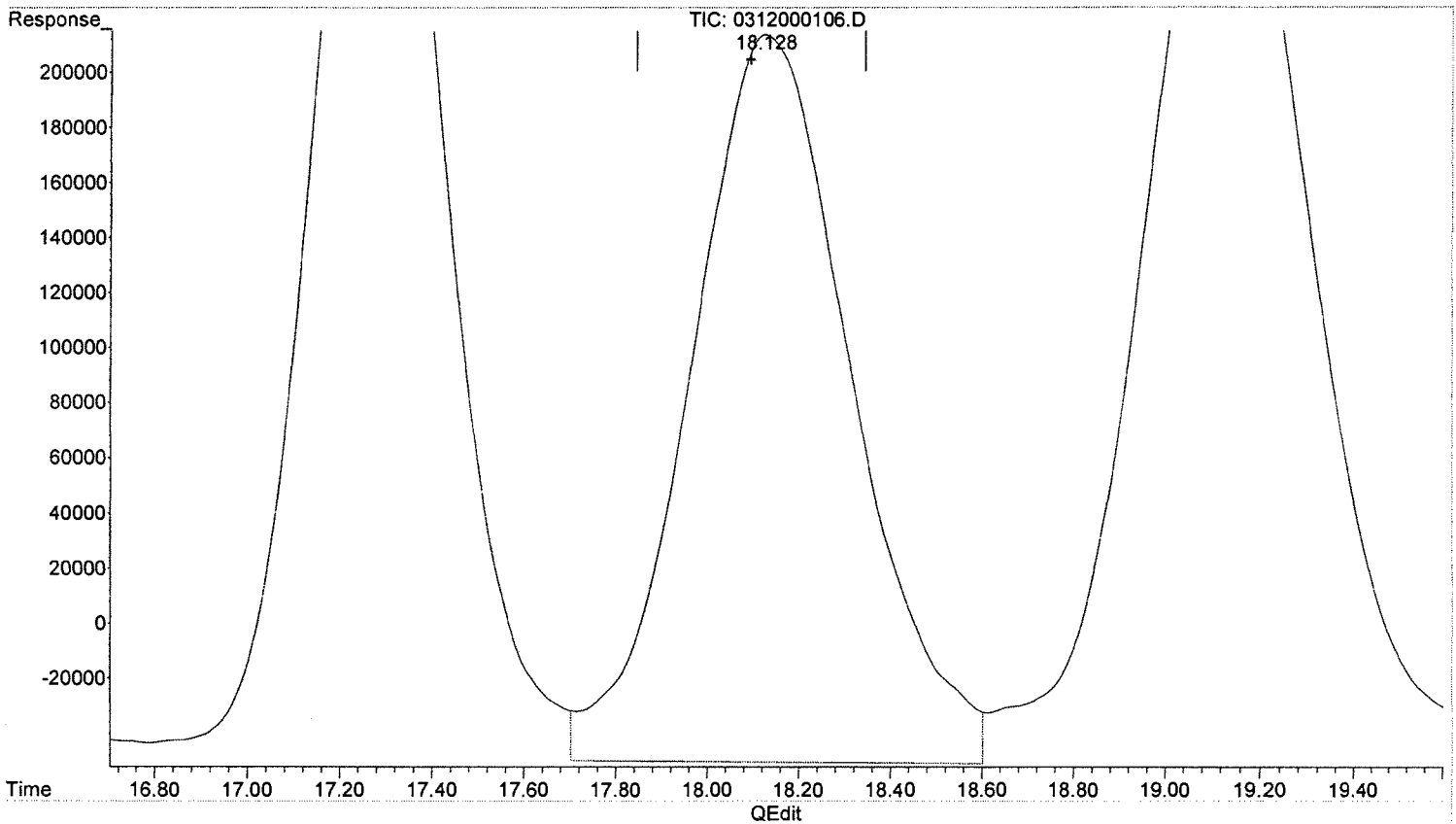
*SJ 3-17-15*  
*BL*

*all 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.128min 218.468 ug/L  
response 6444959

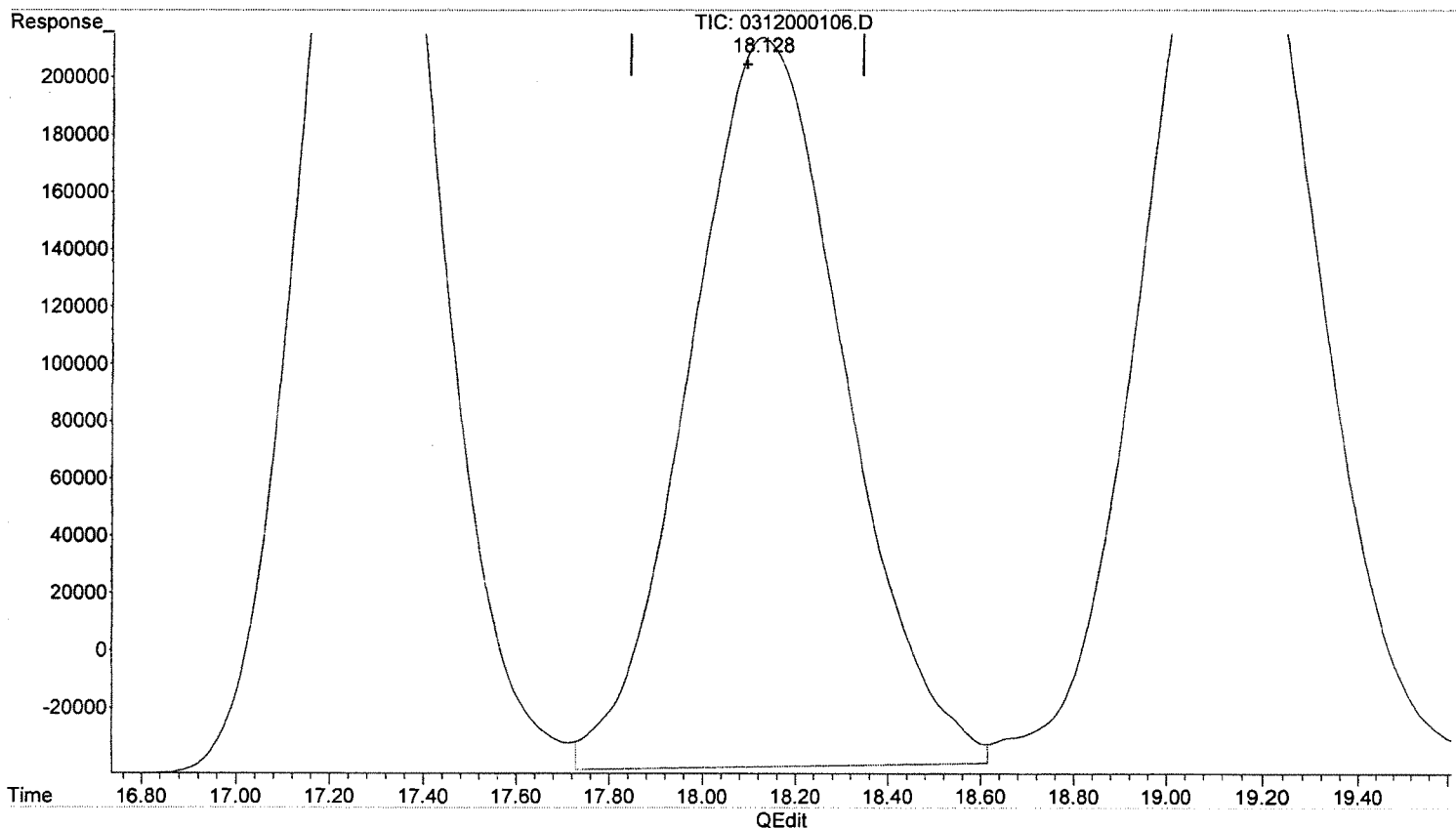
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.128min 199.479 ug/L m  
response 5884772

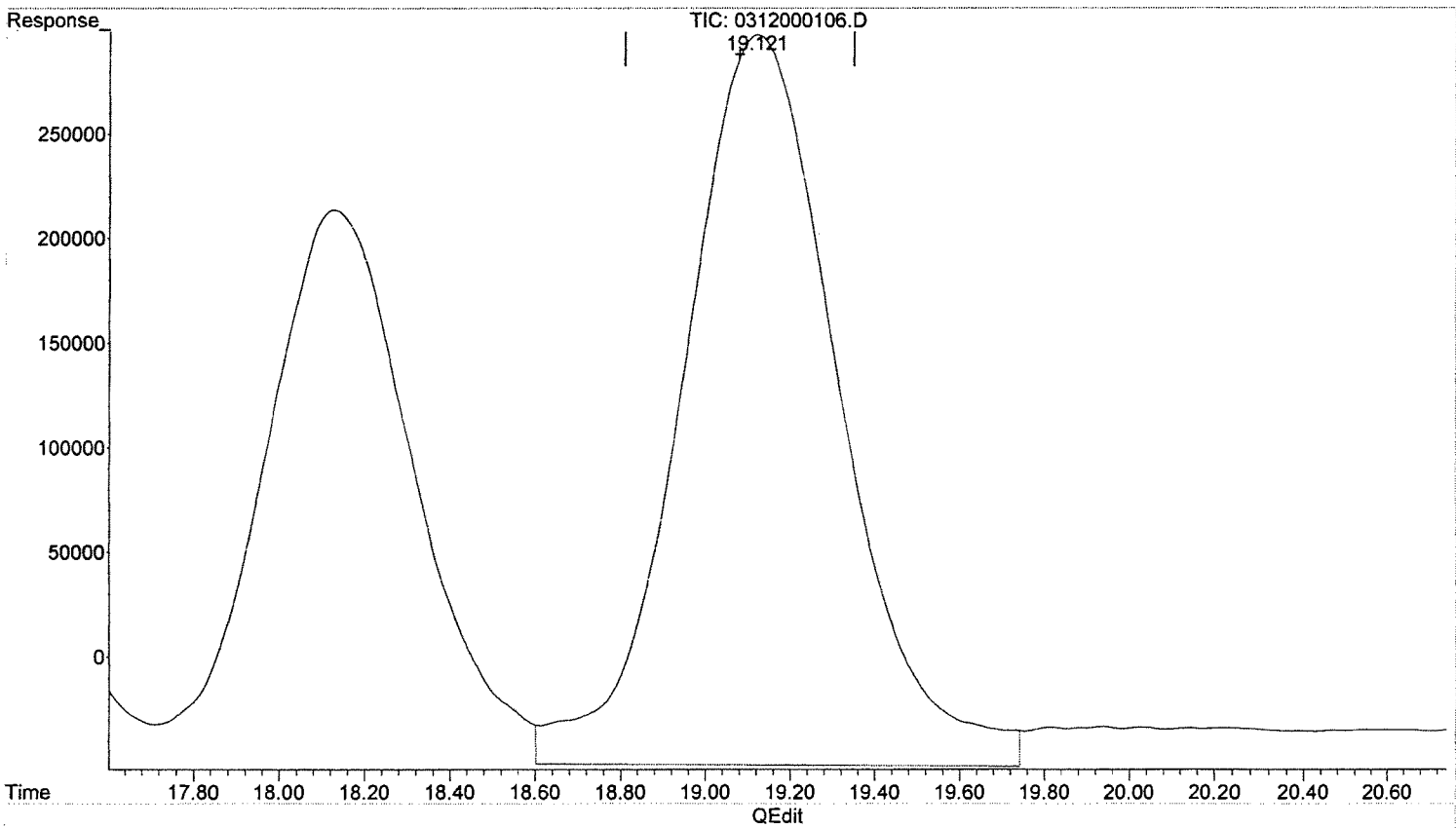
*83-17-15*  
*BL*

*18.128*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.121min 222.335 ug/L  
response 8926925

*3-17-15*

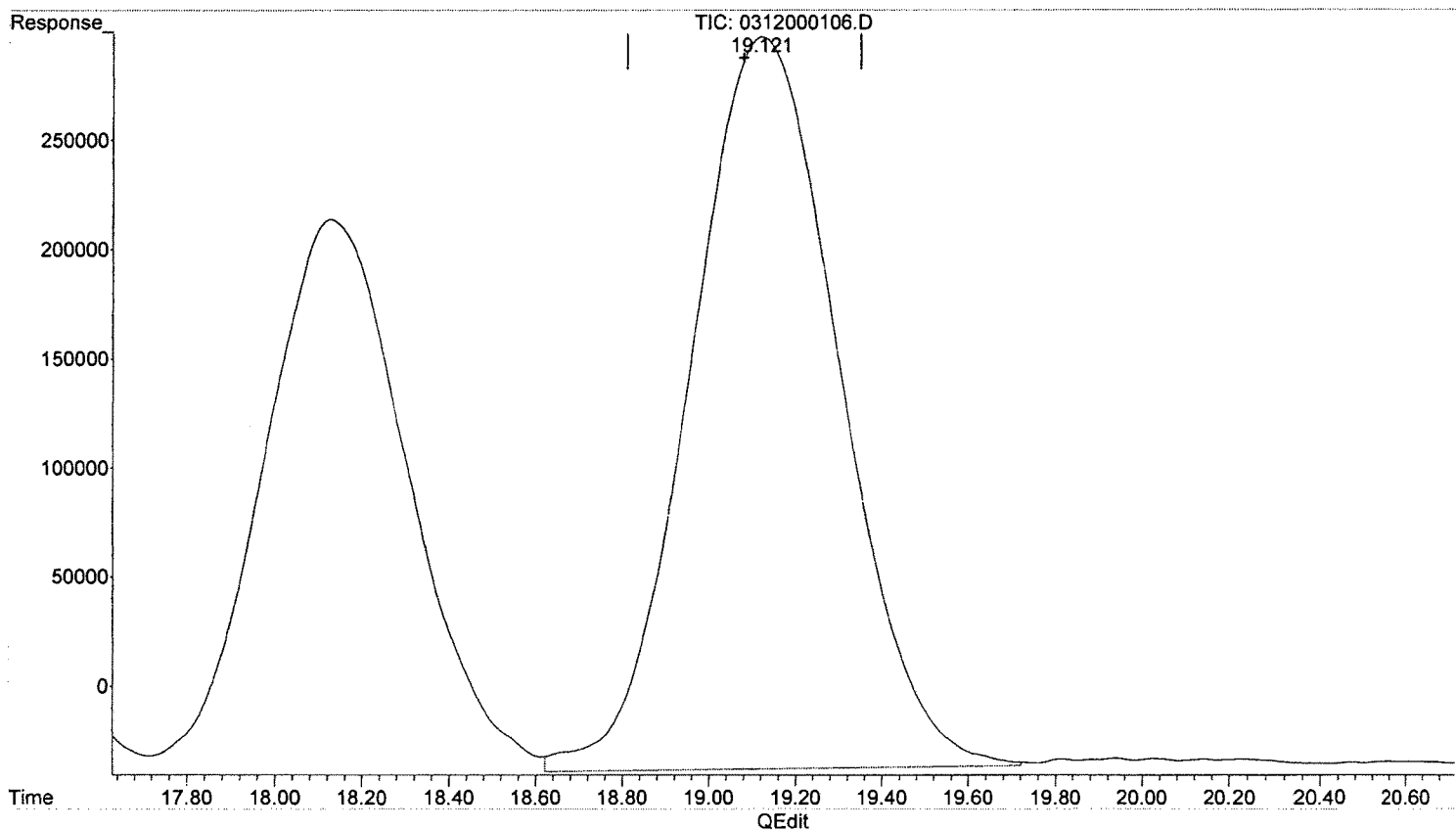
*MH 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.121min 199.017 ug/L m  
response 7990692

SJ 3-17-15  
BL

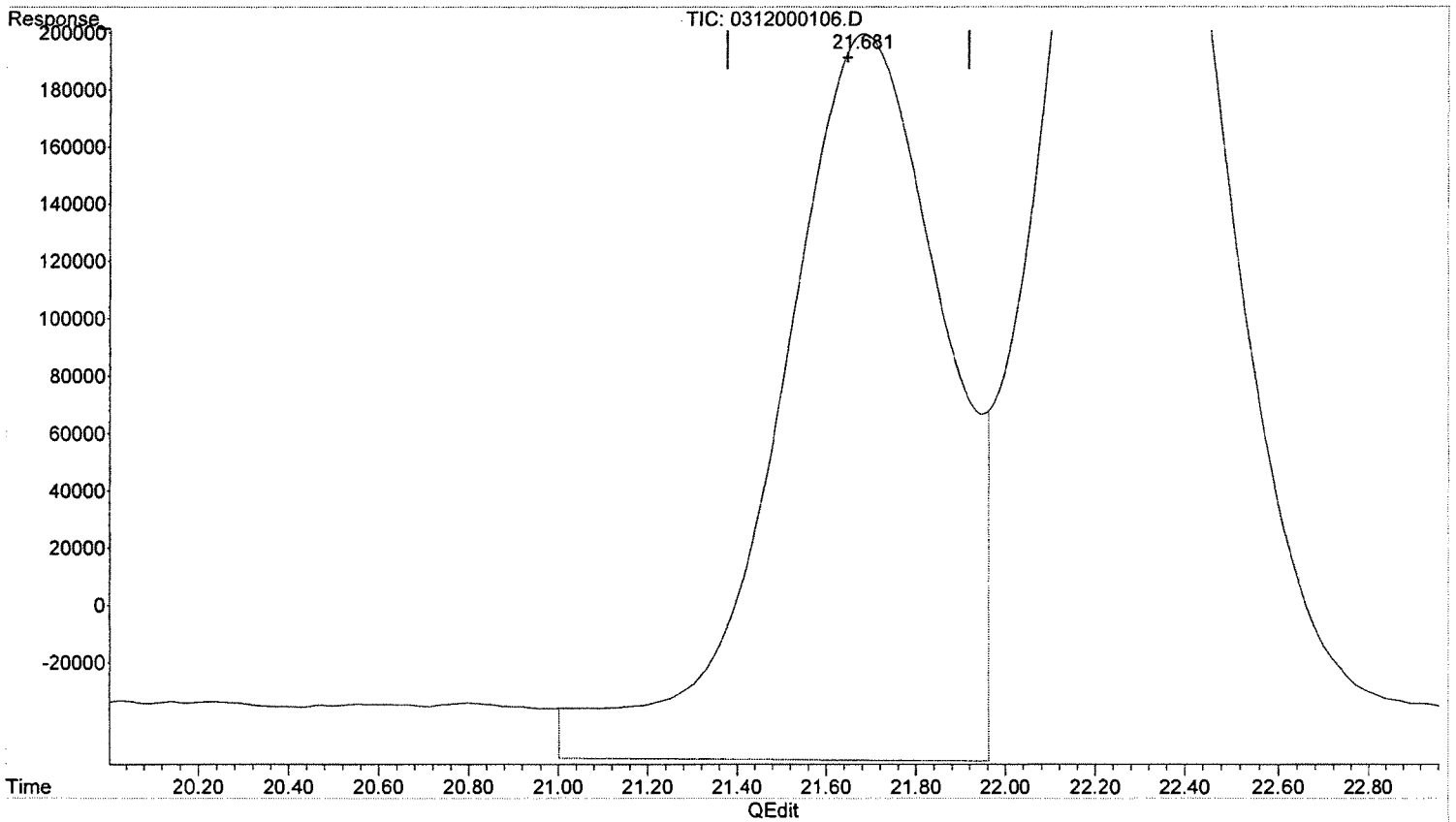
MJ 3/24/15

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.681min 222.232 ug/L  
response 6480800

*SJ 3-17-15*

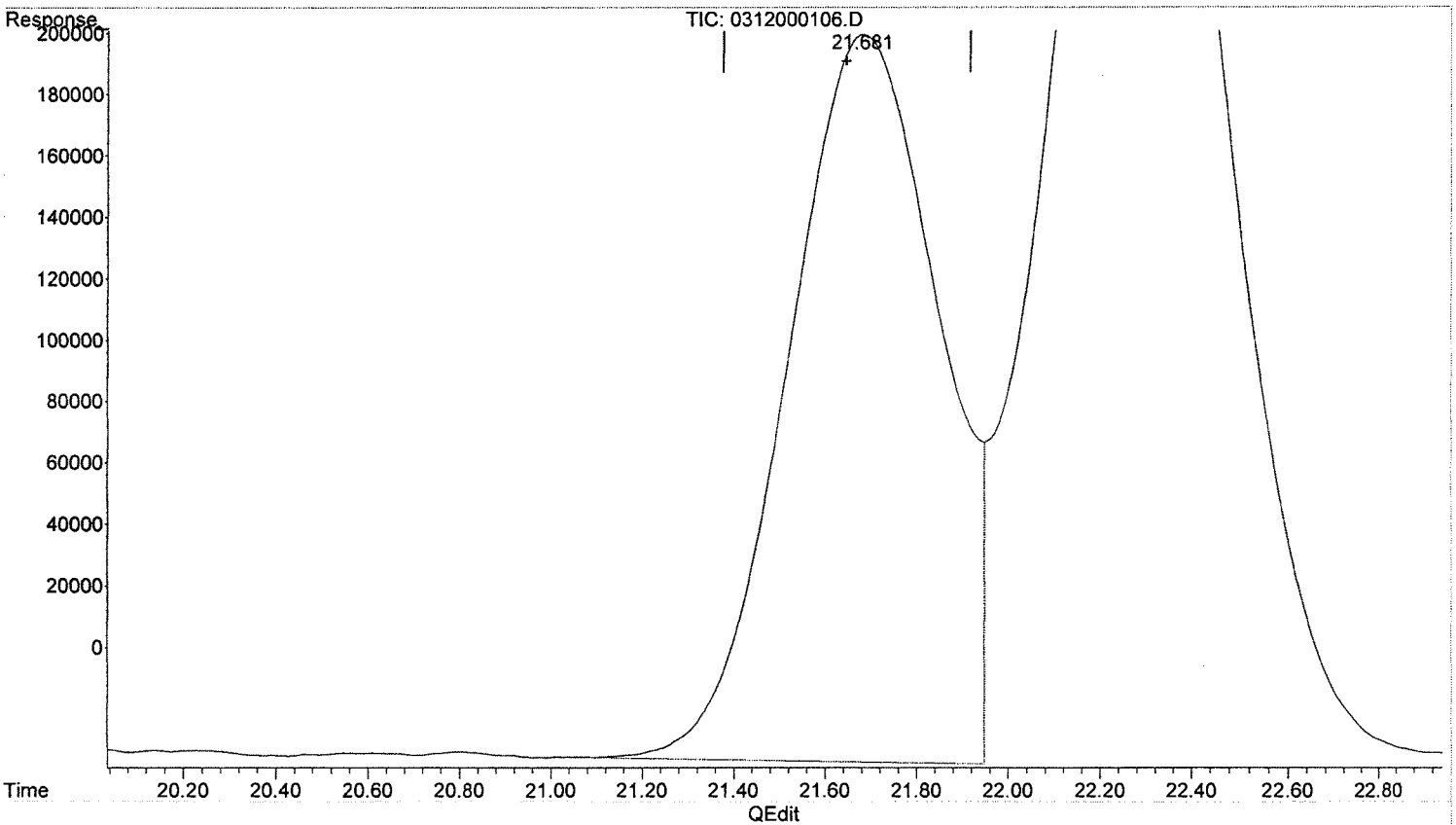
*MPL 3/24/15*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.681min 185.952 ug/L m  
response 5422798

*SJ 3-17-15*  
*BL*

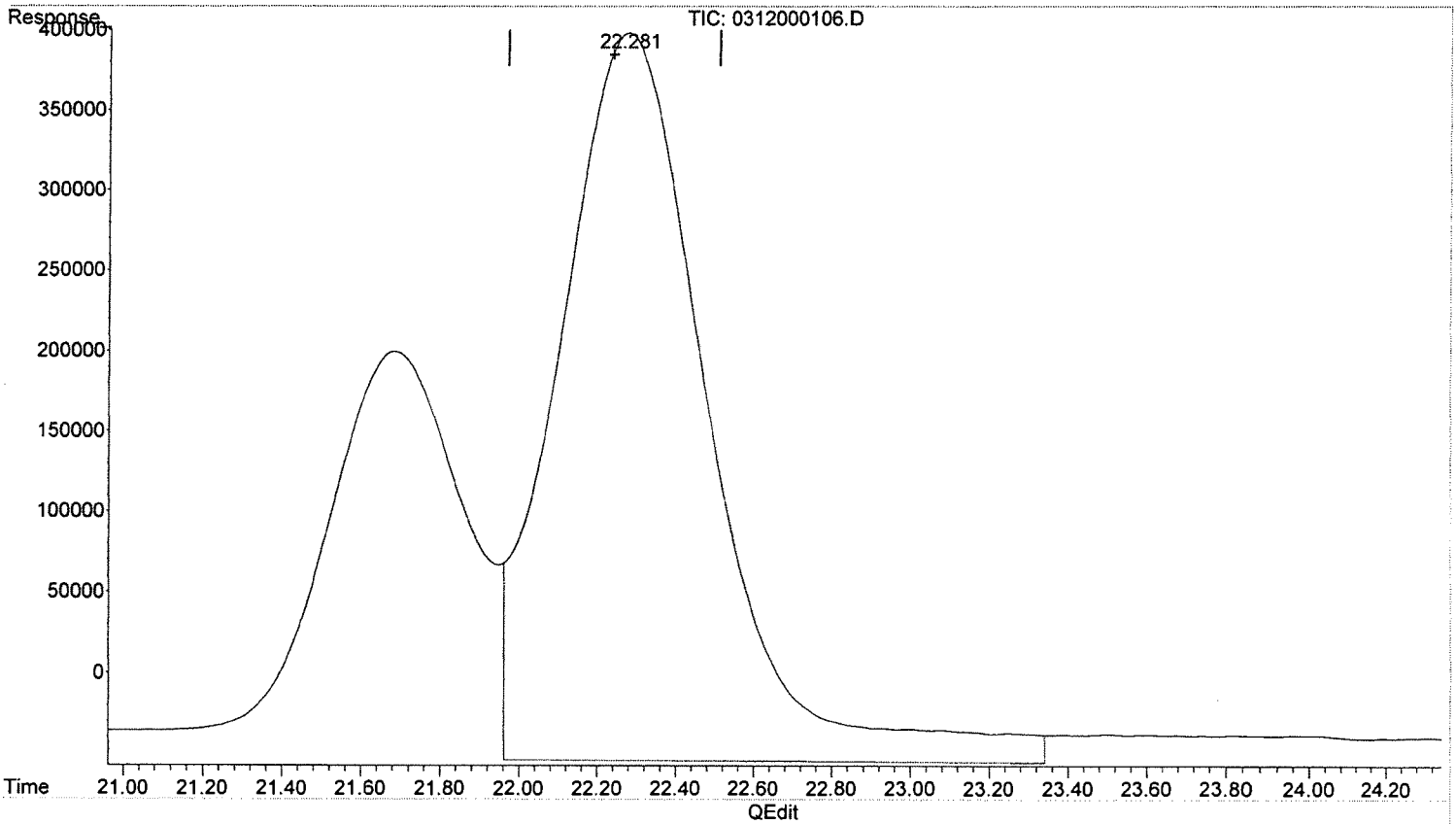
*MH 3/24/15*

Quantitation report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.281min 222.647 ug/L  
response 12097504

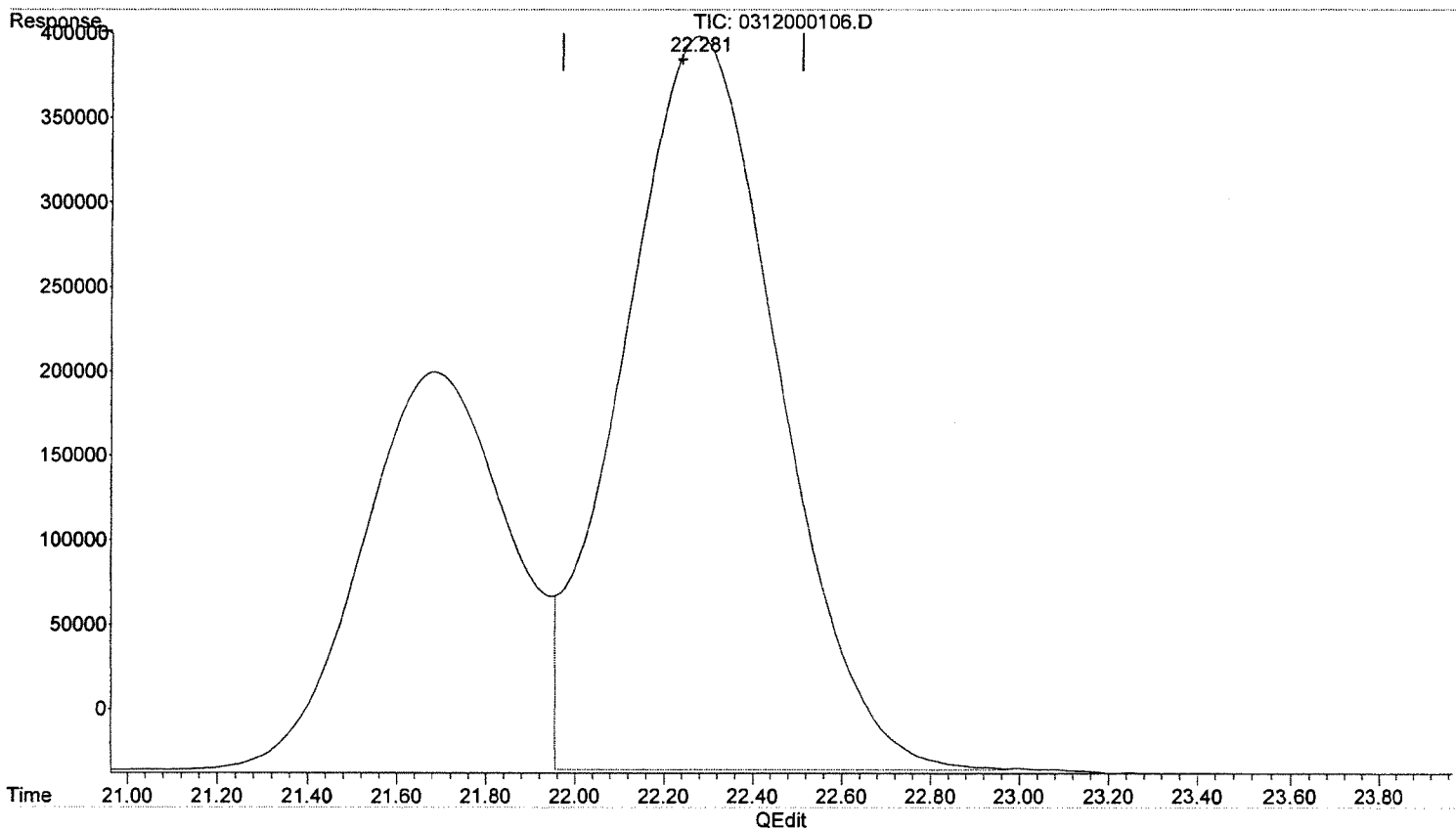
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.281min 194.567 ug/L m  
response 10571793

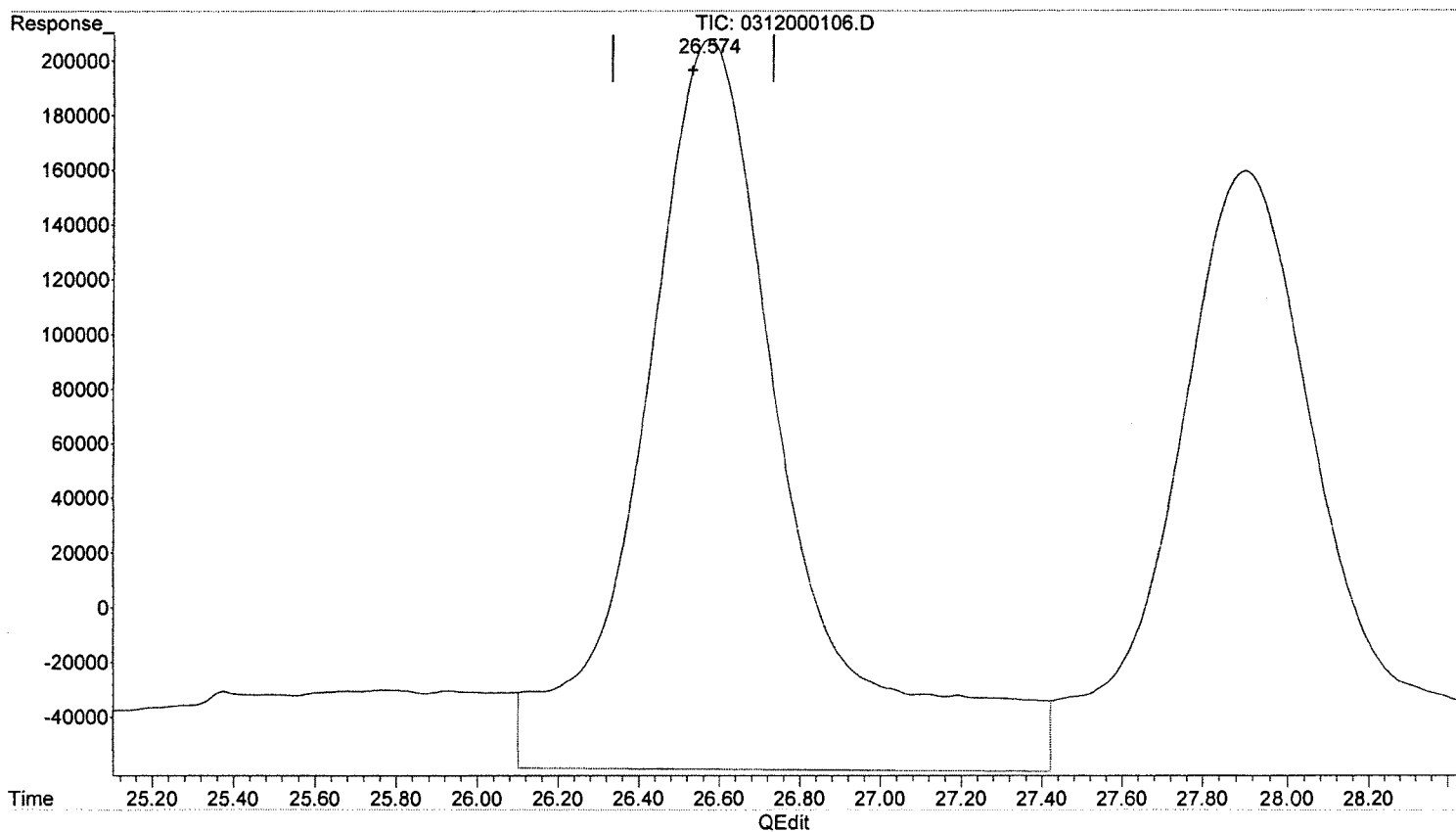
*SJ 3-17-15  
BL*

*ML 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.574min 278.953 ug/L  
response 6786876

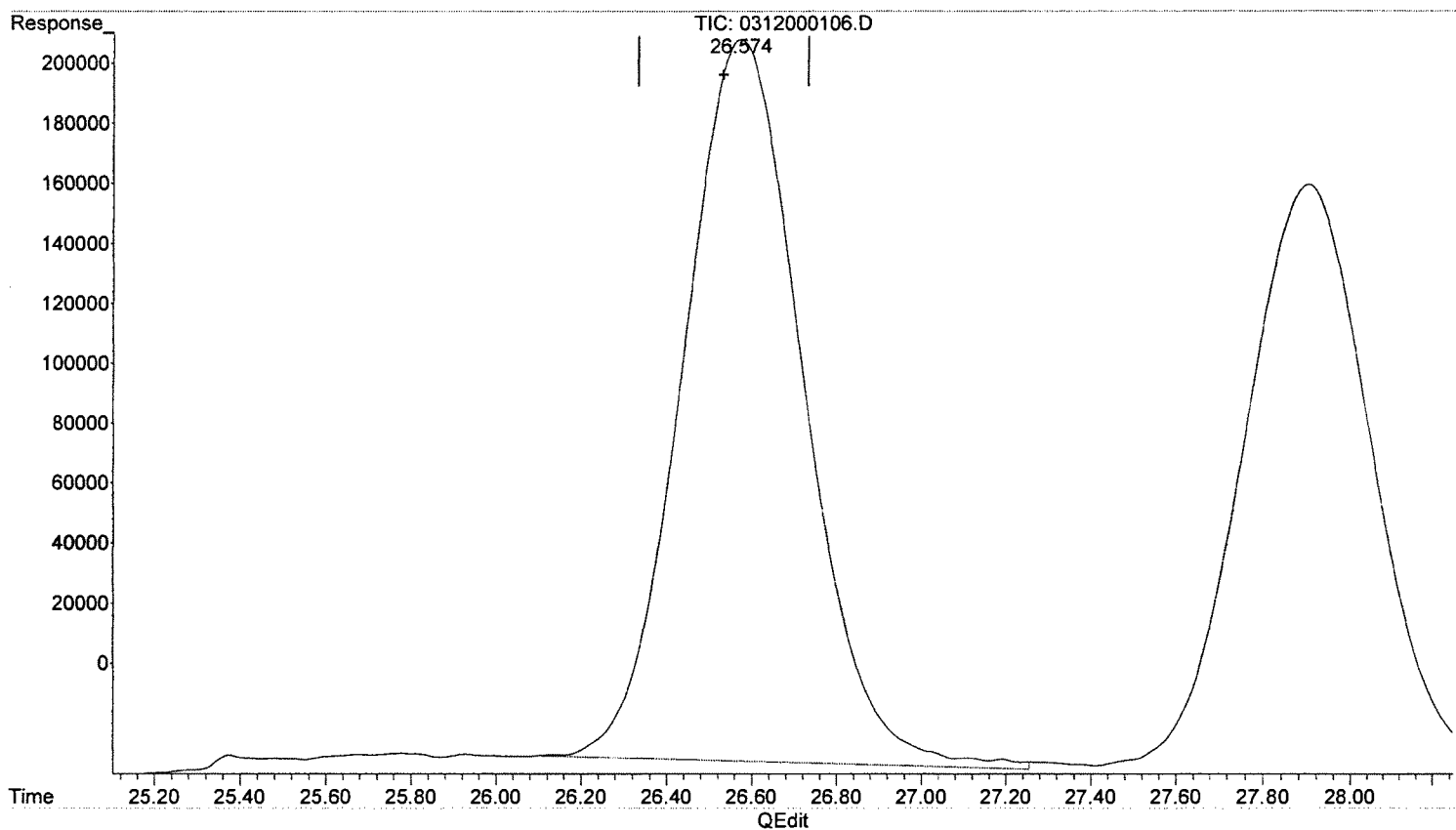
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)

26.574min 194.405 ug/L m  
response 4729824

*SJ 3-17-15*  
*BL*

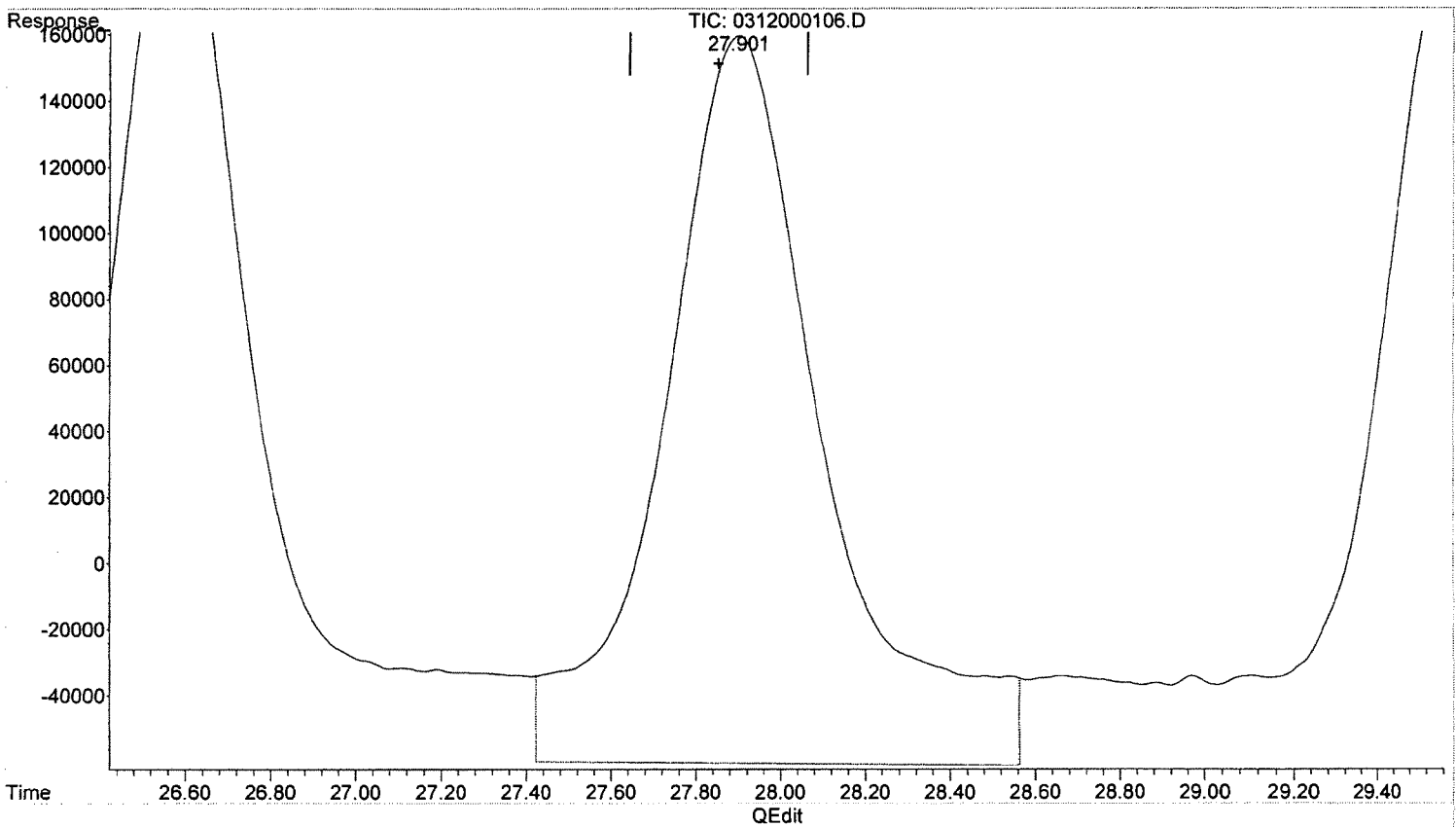
*apl 3/16/15*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
27.901min 276.458 ug/L  
response 5762117

*SJ 3-17-15*

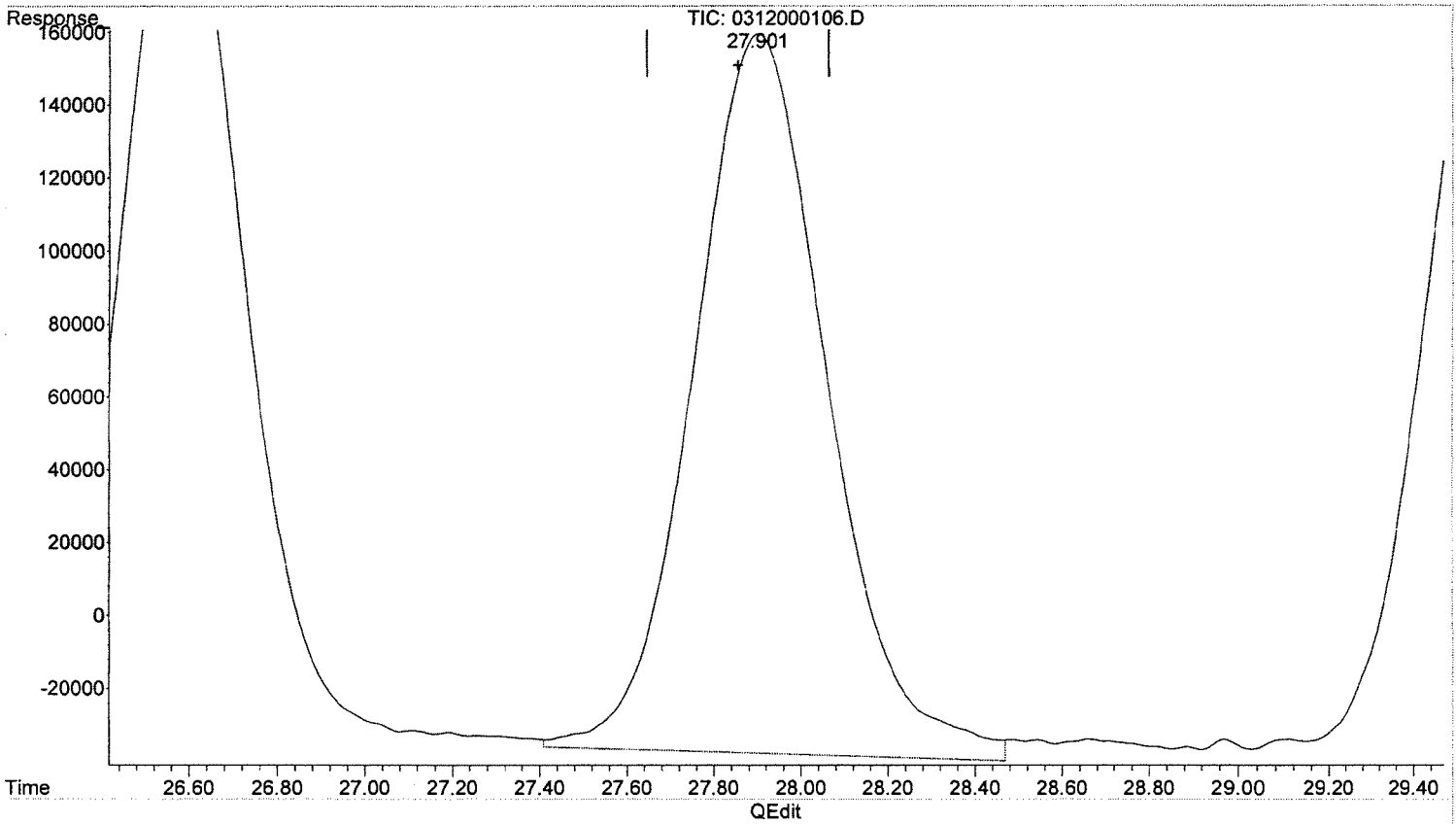
*MPL 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
27.901min 202.150 ug/L m  
response 4213346

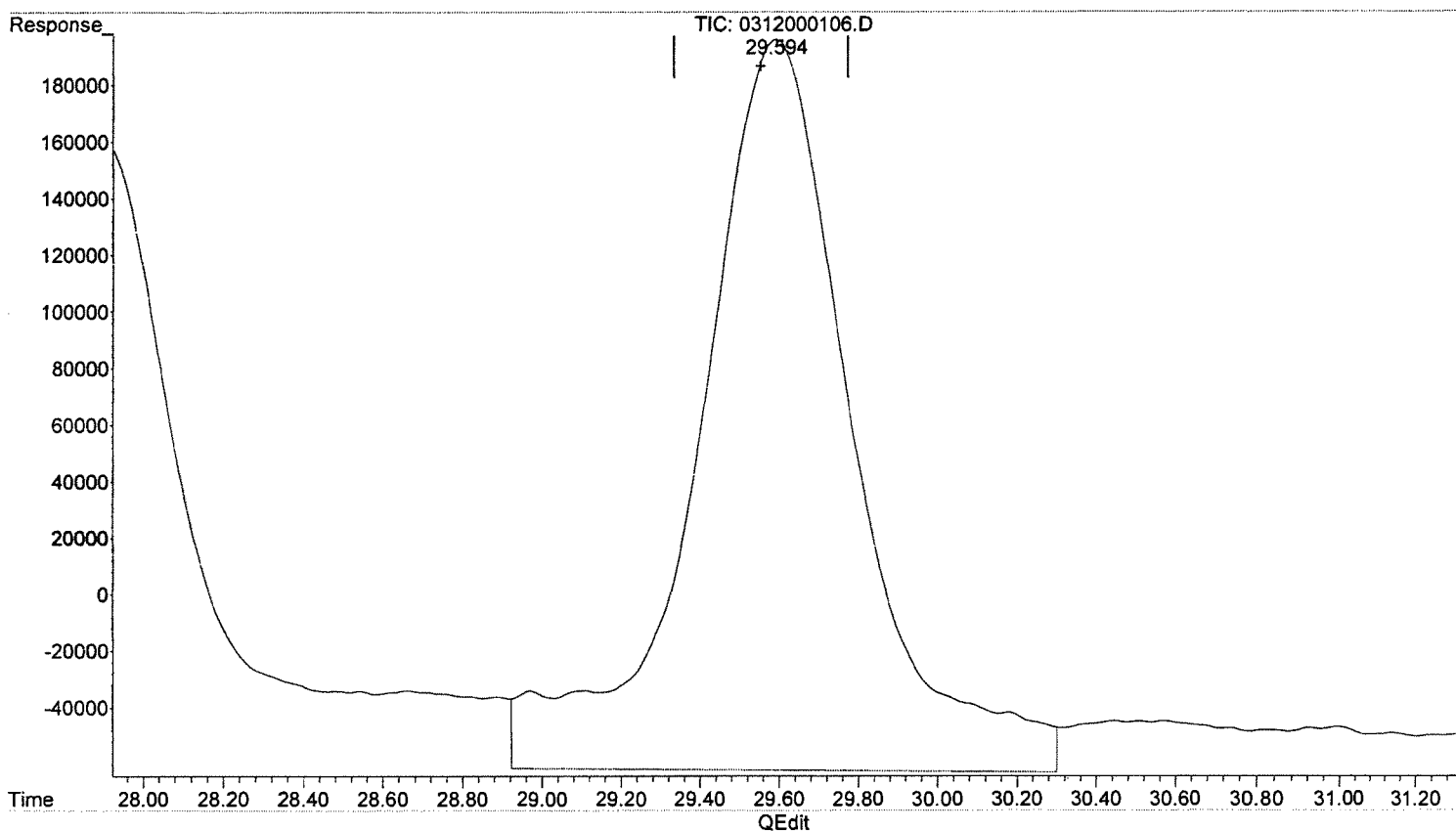
*SJ 3-17-15  
BL*

*mjt 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.594min 262.887 ug/L  
response 7023423

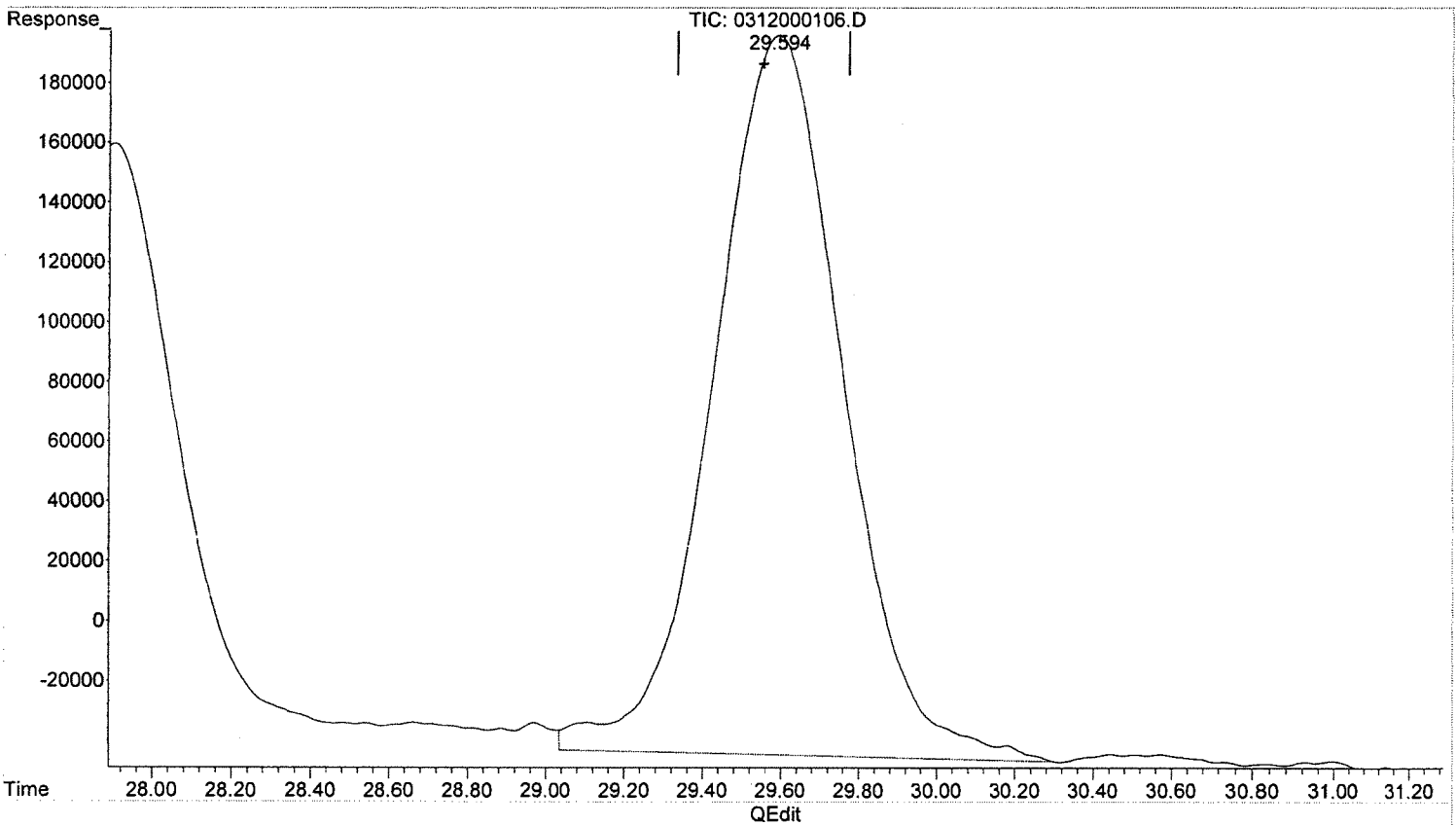
*Sf 3-17-15*

*ml 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.594min 207.964 ug/L m  
response 5556068

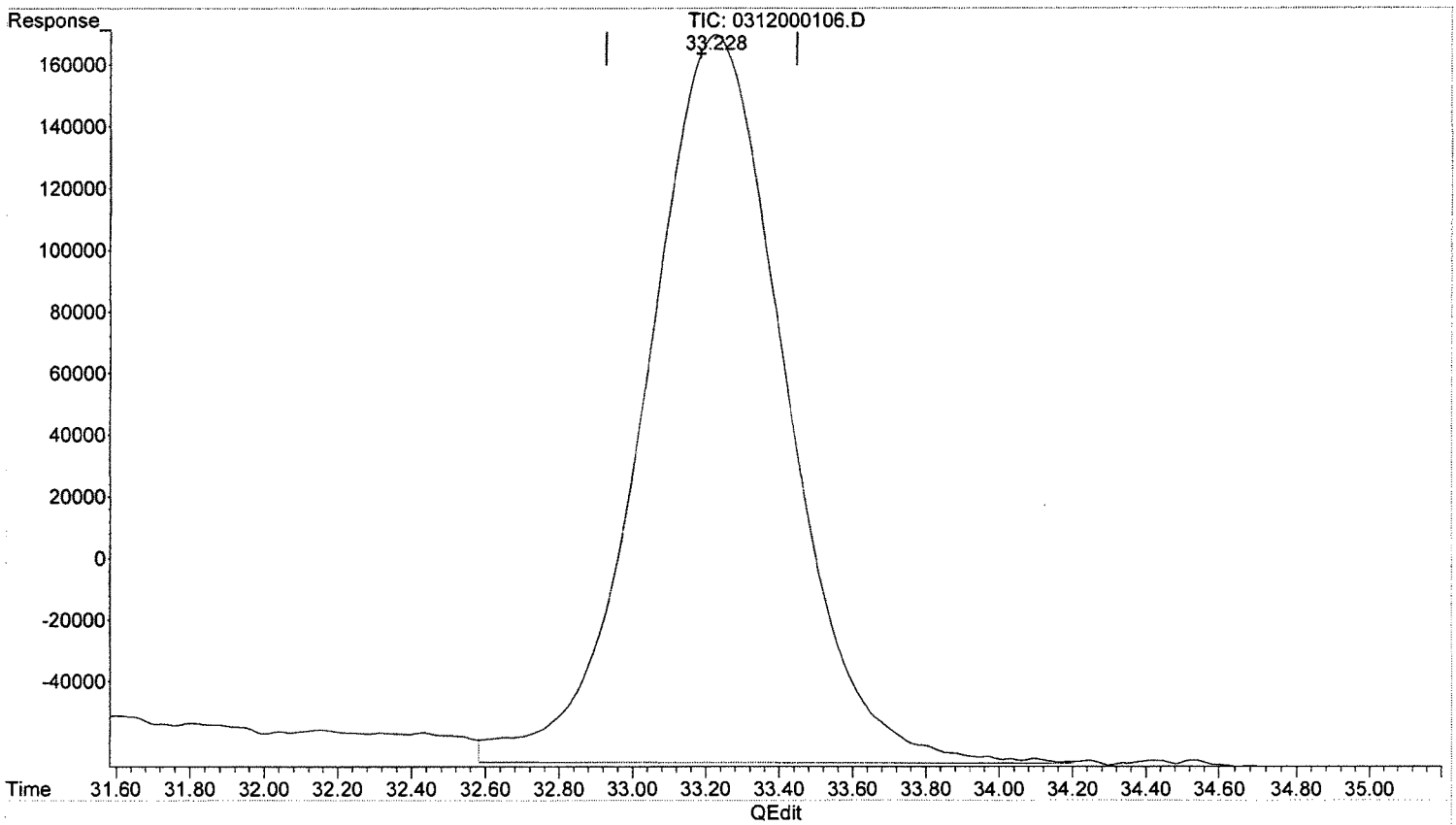
*SJ 3-17-15*  
*BL*

*MPL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.228min 206.799 ug/L  
response 6227639

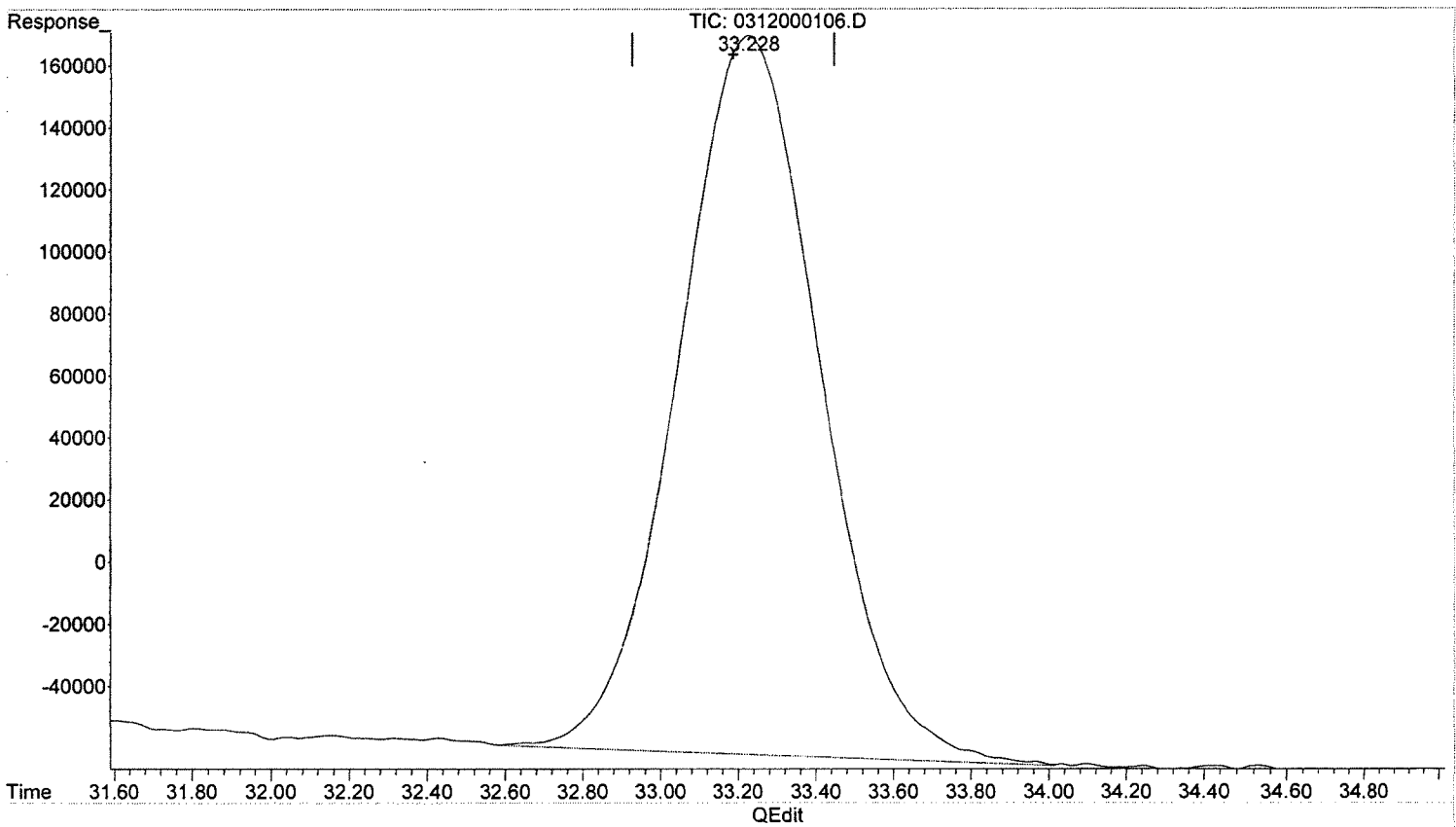
*3-17-15*

*3-24-15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000106.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:10 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.228min 195.030 ug/L m  
response 5873227

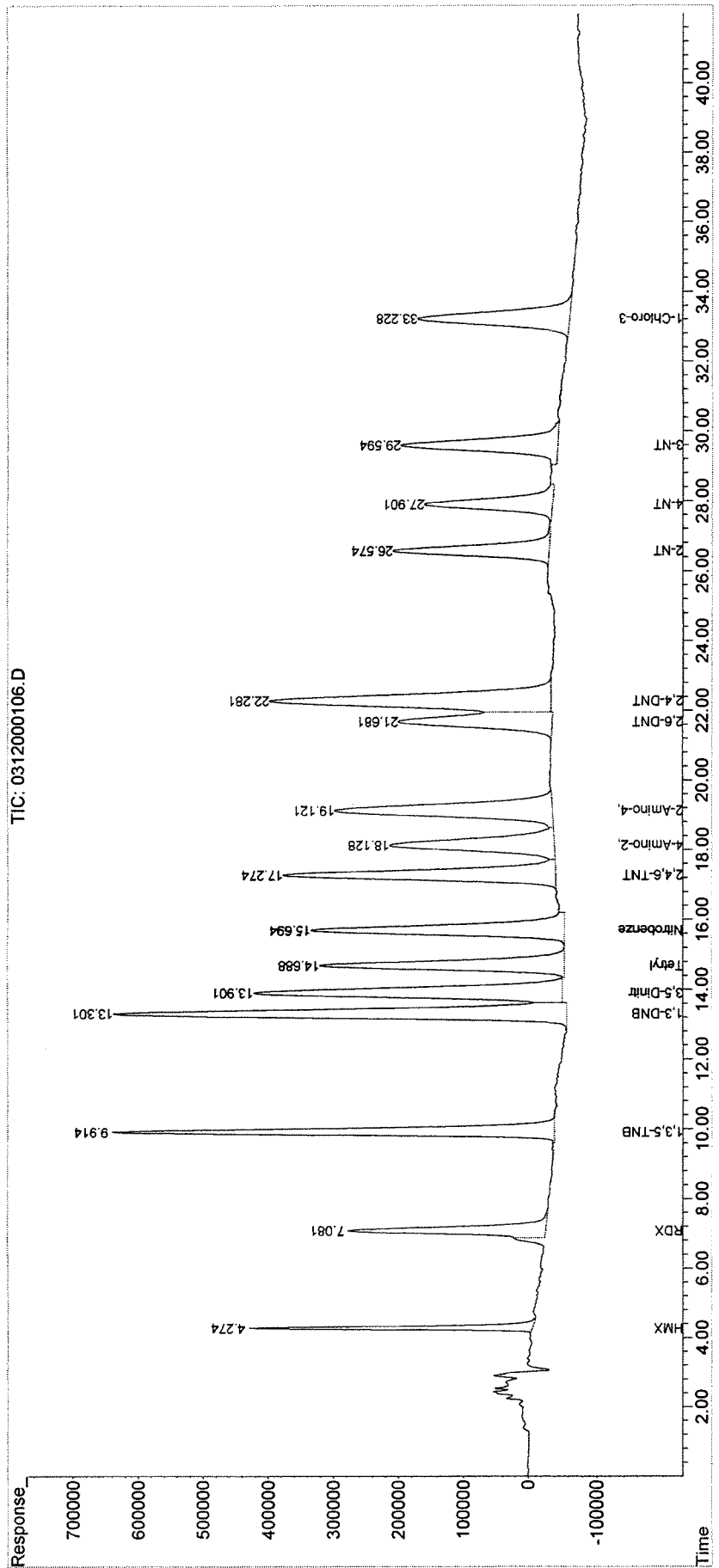
*SJ 3-17-15*  
*BL*

*ml 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000106.D  
 Signal(s) : DAD1A.ch  
 Acq On : 12-Mar-2015, 21:09:47  
 Operator : SJ  
 Sample : 14-OLC-01-52D 200PPB  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 13:05:02 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 QLast Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000108.D  
 Signal(s) : DAD1A.ch  
 Acq On : 12-Mar-2015, 22:42:21  
 Operator : SJ  
 Sample : 14-OLC-01-52F 1000PPB  
 Misc :  
 ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 13:41:56 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 QLast Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.220	31250806	1037.734	ug/L m
Target Compounds				
1) T HMX	4.273	15597899	1015.890	ug/L m
2) T RDX	7.087	20073826	998.119	ug/L m
3) T 1,3,5-TNB	9.907	46434998	1046.044	ug/L m
4) T 1,3-DNB	13.273	61954182	1018.968	ug/L m
5) T 3,5-Dinitroaniline	13.867	49131138	1012.318	ug/L m
6) T Tetryl	14.667	34361124	1055.585	ug/L m
7) T Nitrobenzene	15.673	38210386	1030.671	ug/L
8) T 2,4,6-TNT	17.253	41820451	1013.573	ug/L
9) T 4-Amino-2,6-DNT	18.100	29498778	999.934	ug/L
10) T 2-Amino-4,6-DNT	19.087	41438788	1032.080	ug/L
11) T 2,6-DNT	21.667	28680917	983.491	ug/L m
12) T 2,4-DNT	22.260	56778673	1044.976	ug/L m
13) T 2-NT	26.567	26785794	1100.947	ug/L
14) T 4-NT	27.900	22602361	1084.427	ug/L
15) T 3-NT	29.593	29704040	1111.824	ug/L
-----				

(f)=RT Delta > 1/2 Window

(m)=manual int.

*SJ 3/17/15*

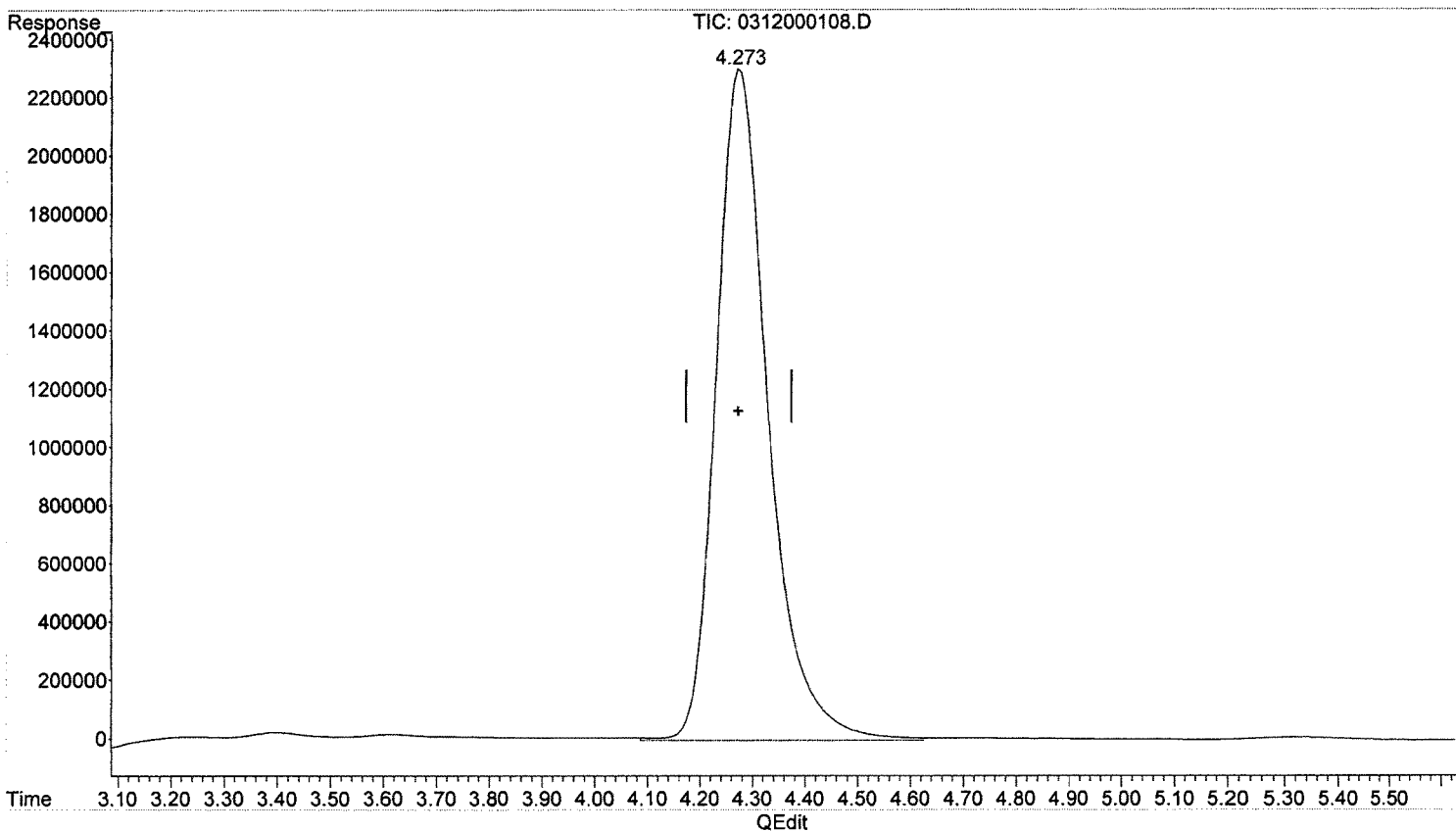
*MW 3/24/15*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.273min 1031.750 ug/L  
response 15841409

*83-17-15*

*M/3/24/15*

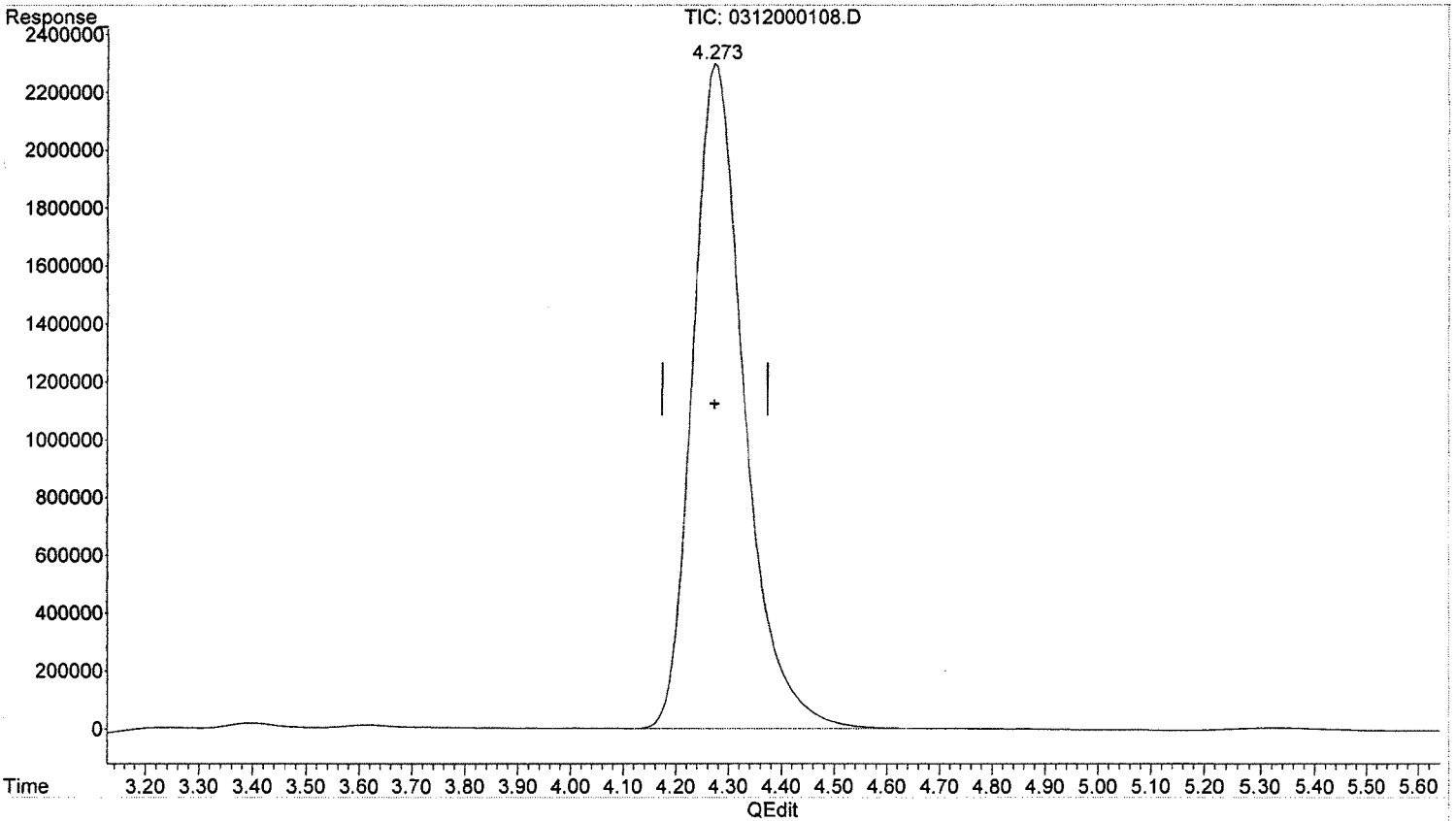


Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.273min 1015.890 ug/L m  
response 15597899

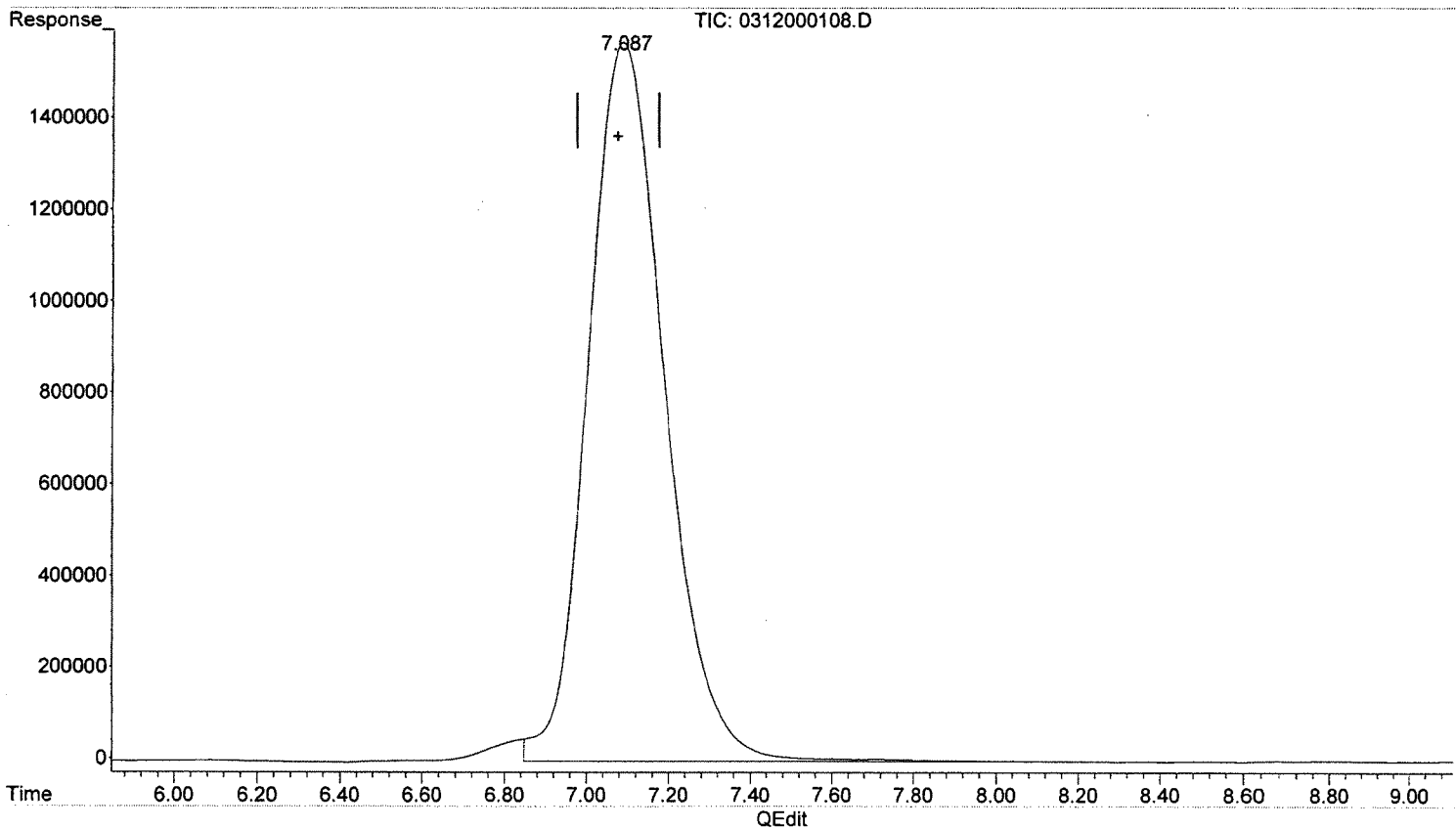
*SJ 3-17-15*  
*BC*

*ref 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.087min 1014.365 ug/L  
response 20400562

*SJ 3-17-15*

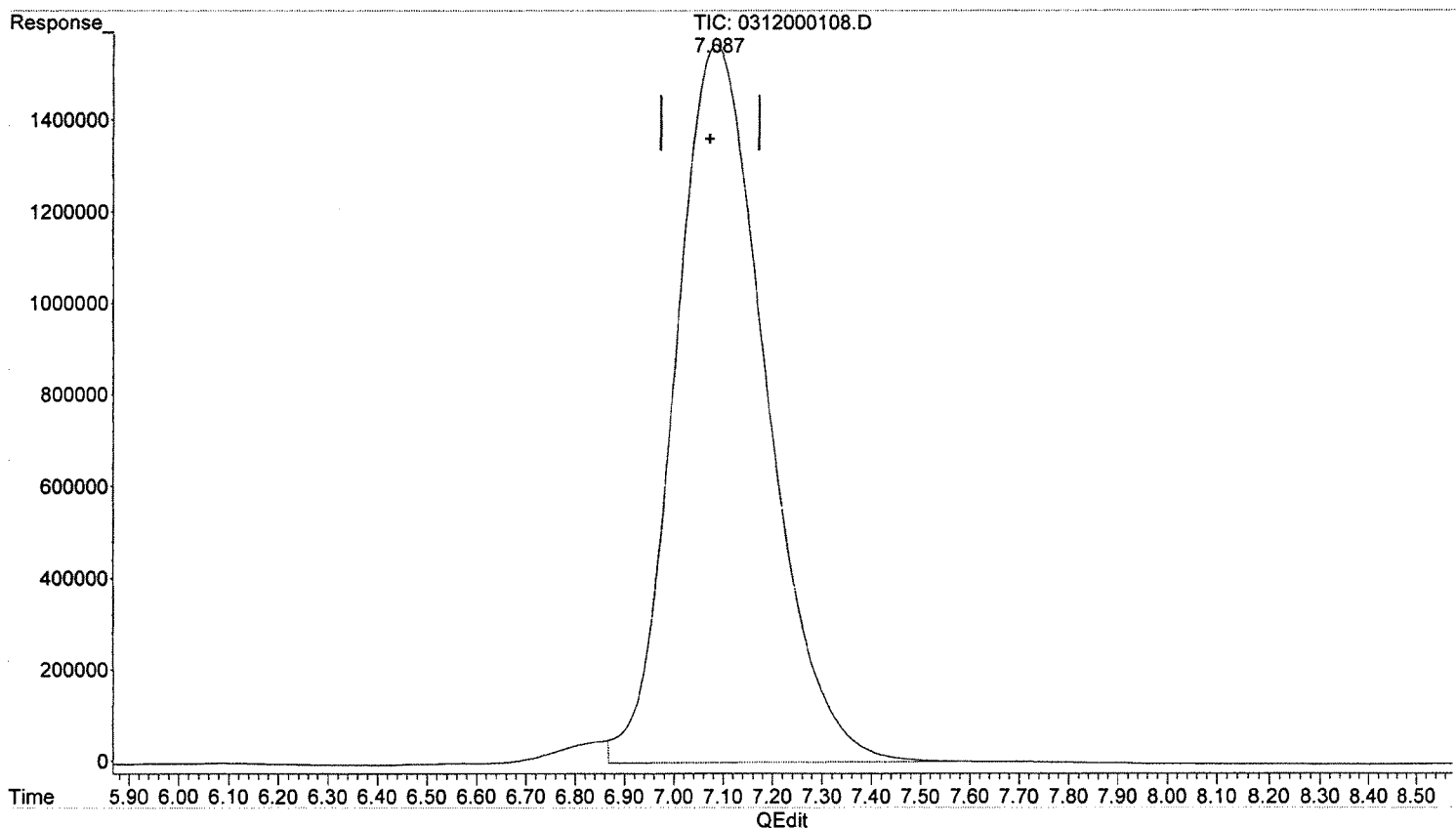
*MJL 3/24/15*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.087min 998.119 ug/L m  
response 20073826

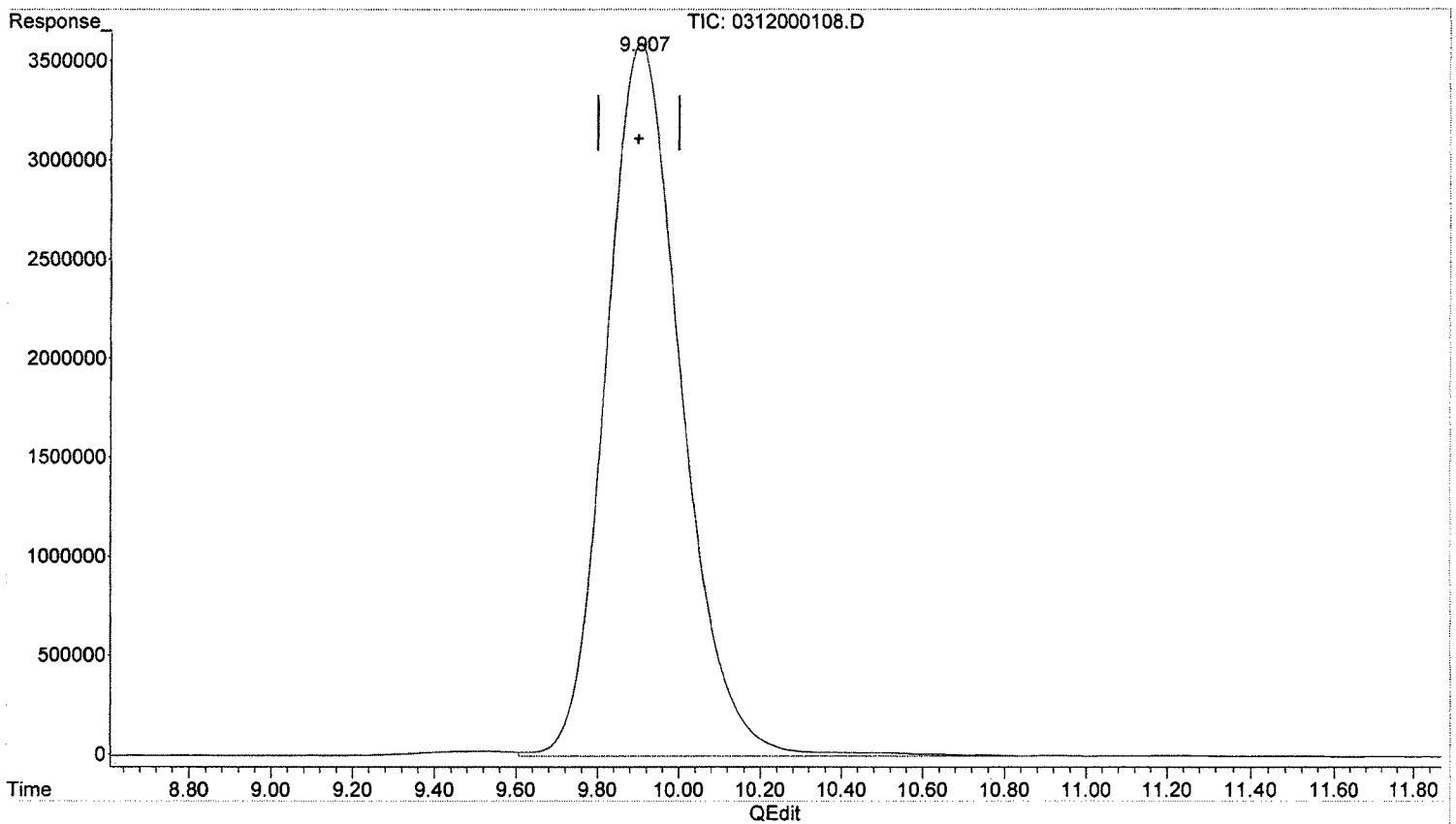
3-17-15  
BL

*Handwritten signature/initials*  
3/24/15

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.907min 1049.095 ug/L  
response 46570418

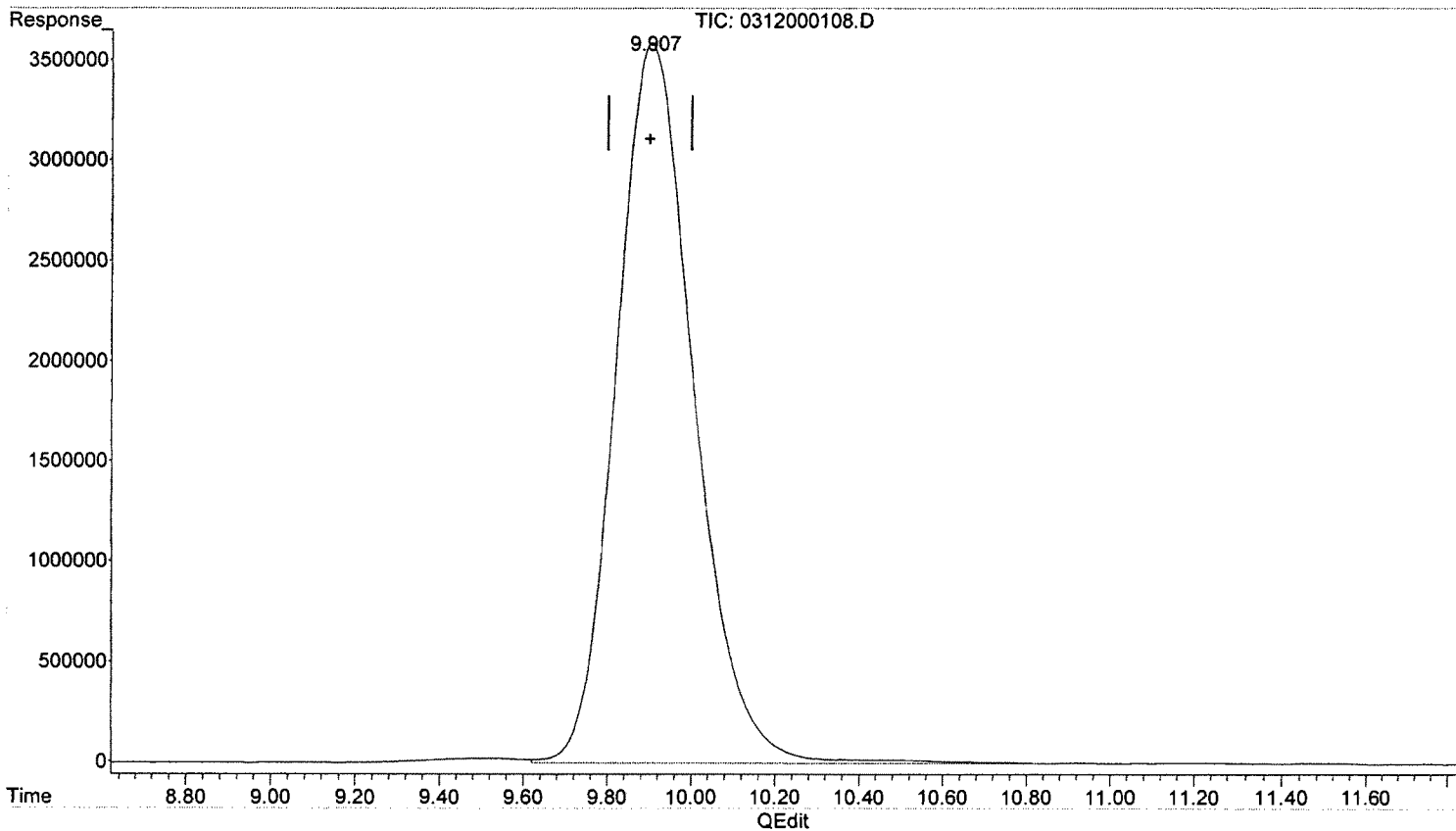
*SJ 3-17-15*

*MPL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.907min 1046.044 ug/L m  
response 46434998

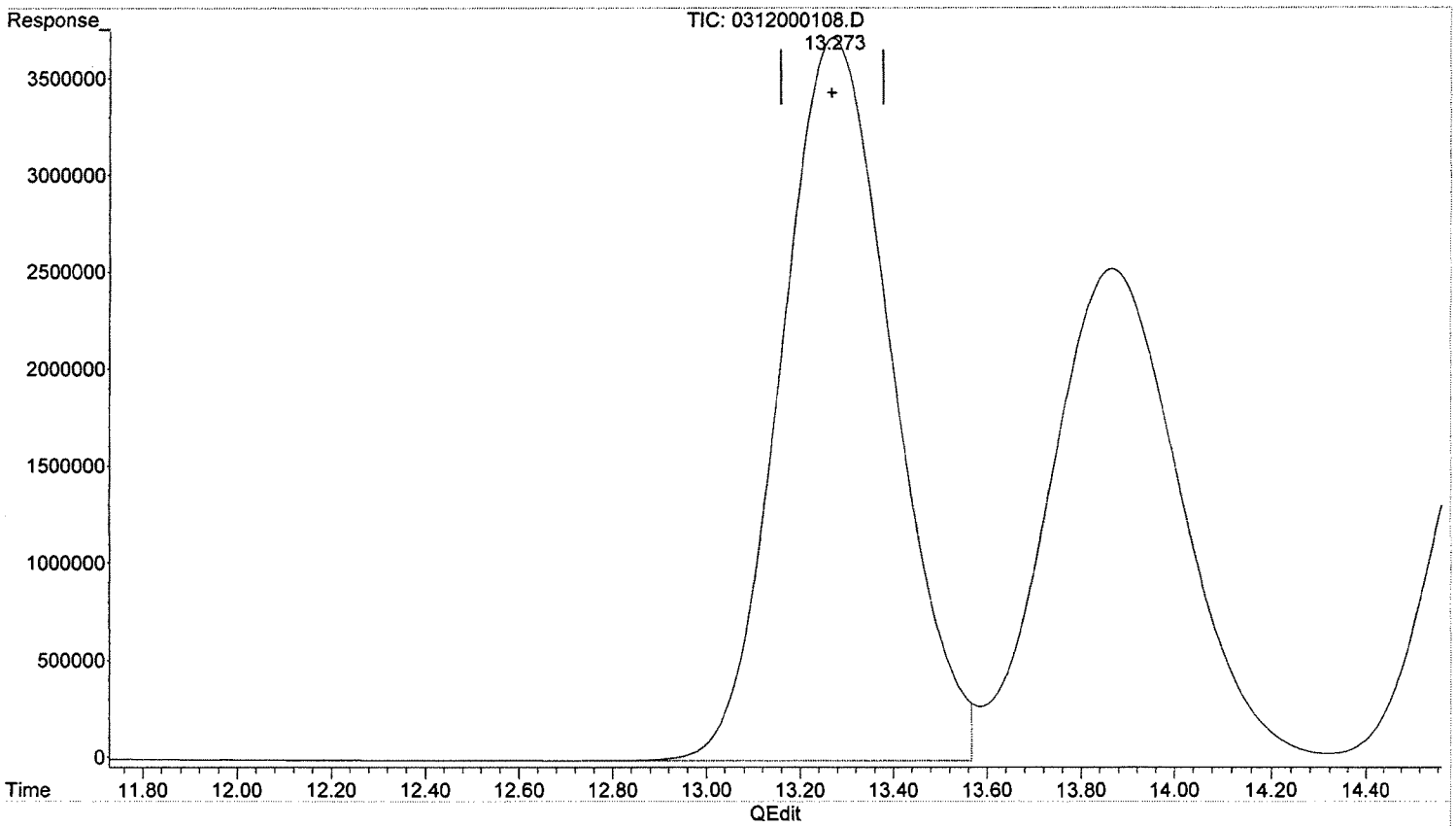
*SJ 3-17-15  
BL*

*SJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.273min 1014.034 ug/L  
response 61654198

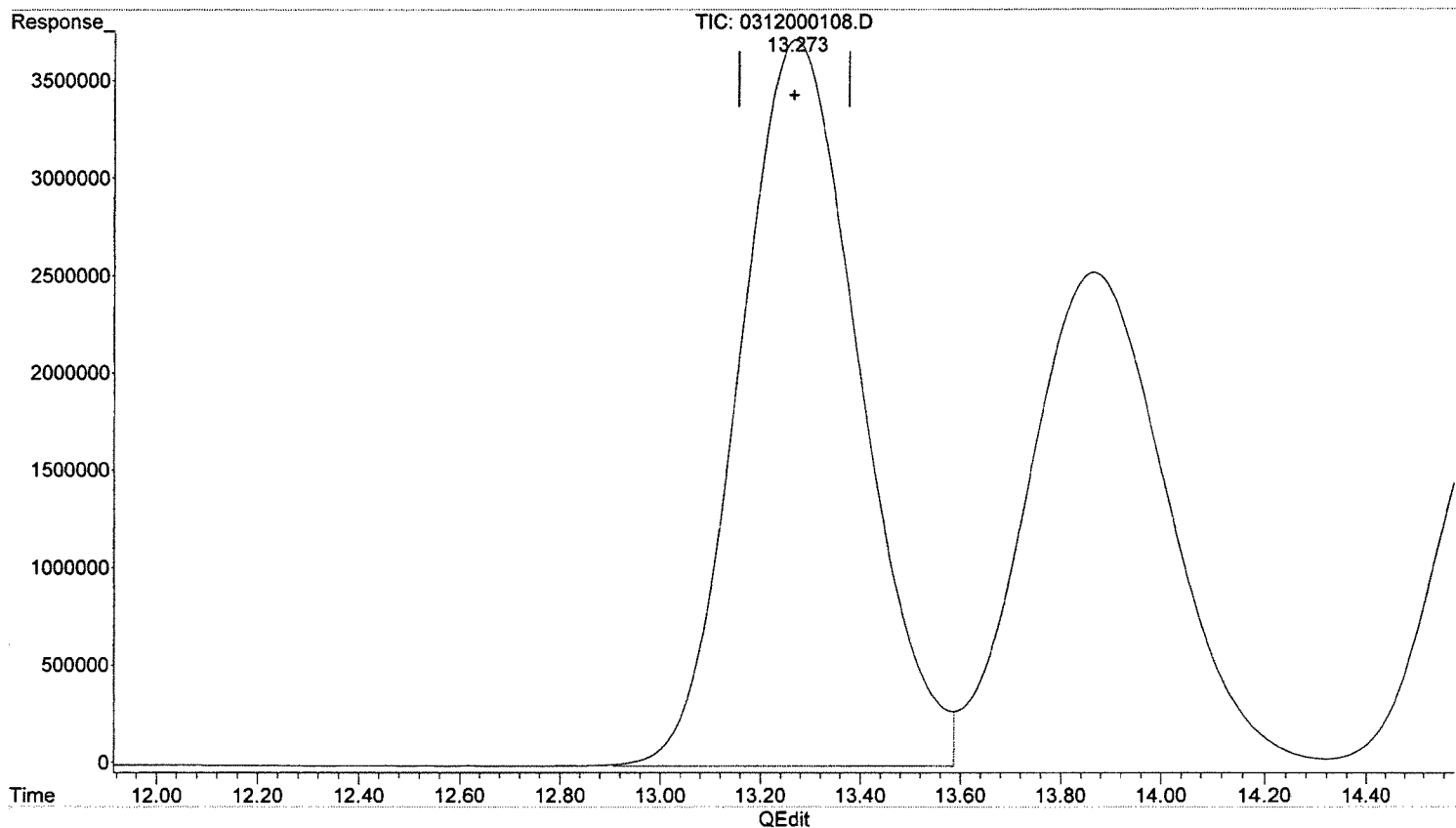
*SJ 3-17-15*

*mfl 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.273min 1018.968 ug/L m  
response 61954182

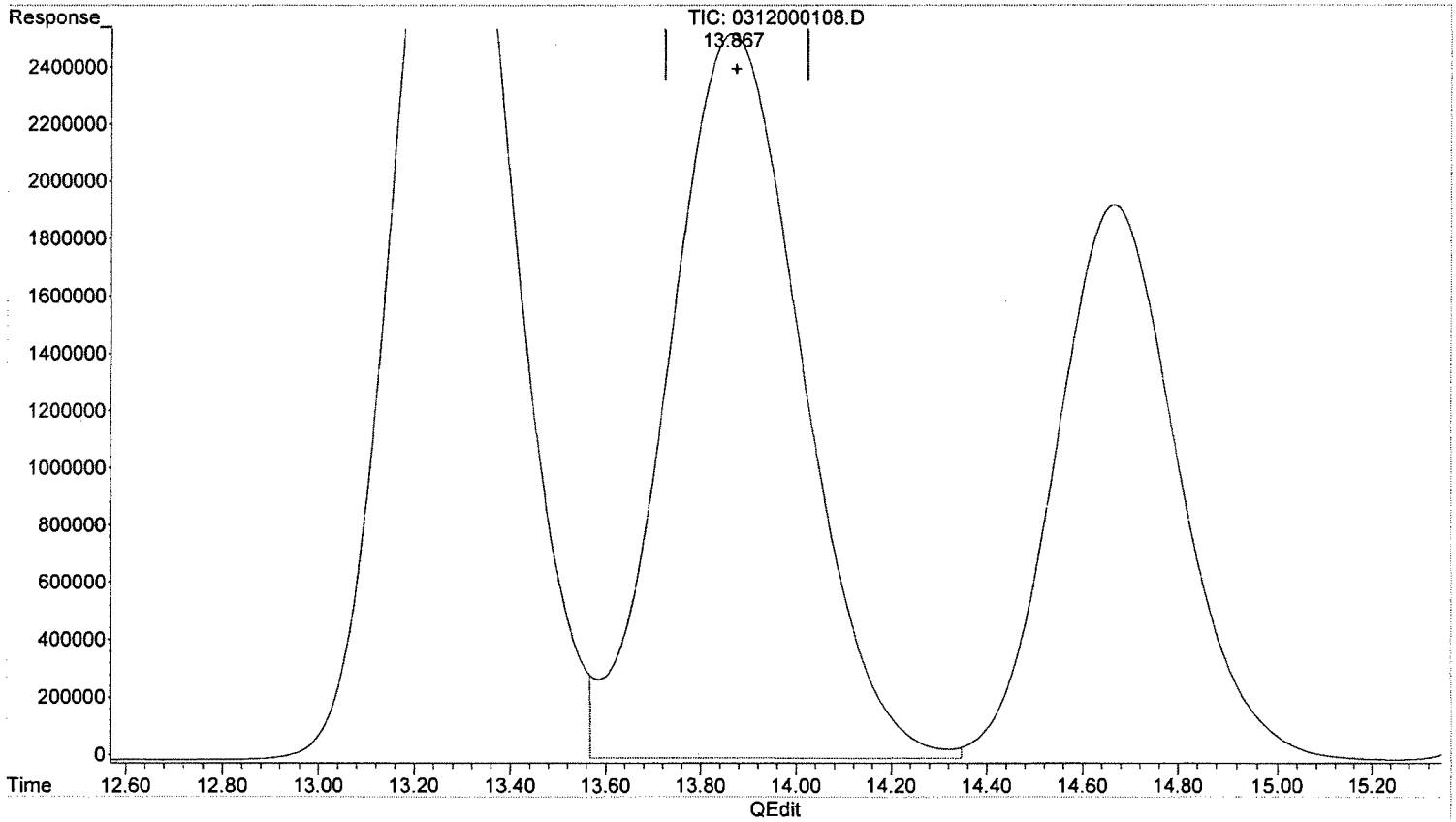
*SJ 3-17-15  
BL*

*MFL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.867min 1007.363 ug/L  
response 48890653

*SJ 3-17-15*

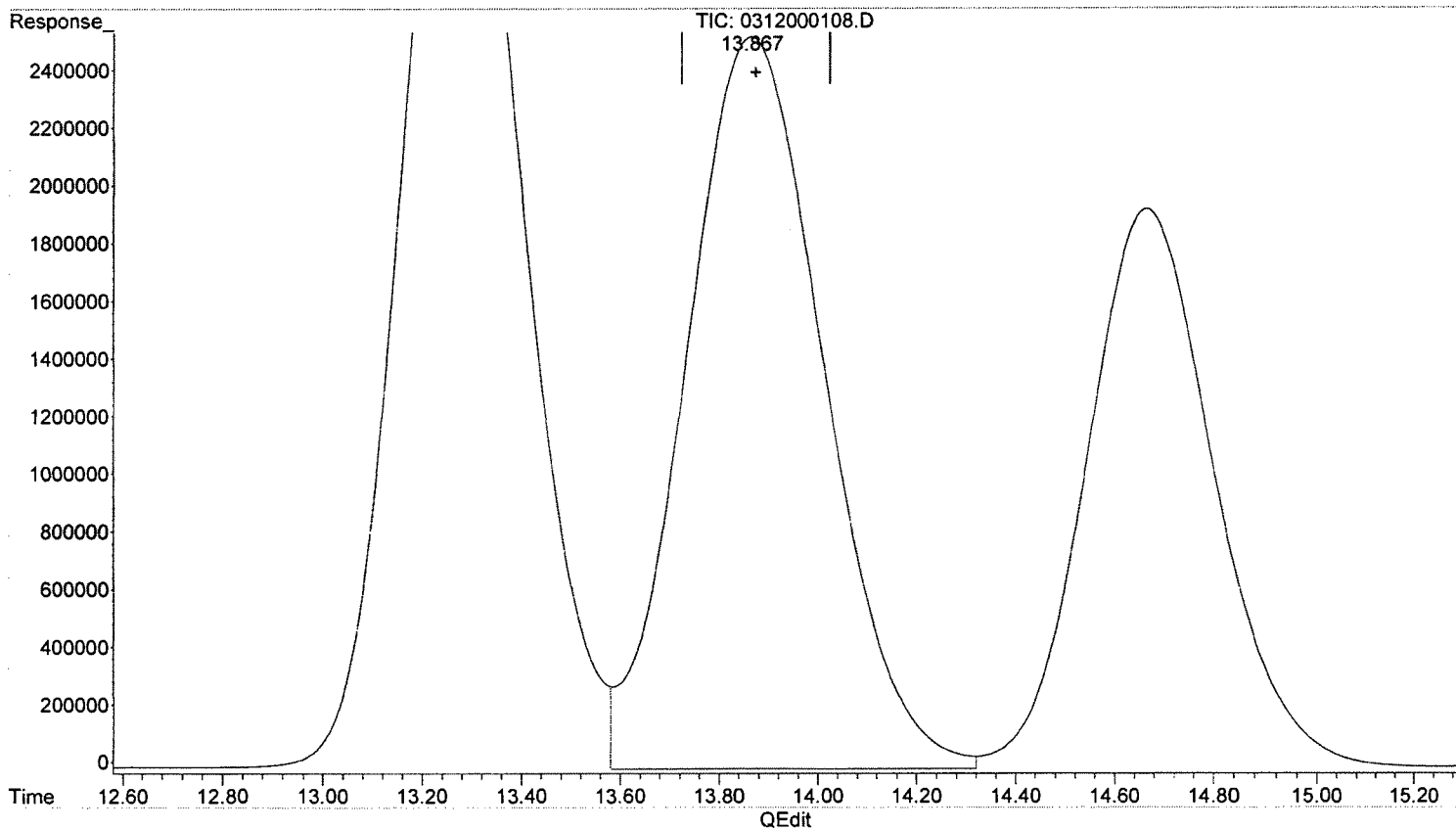
*mfl 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.867min 1012.318 ug/L m  
response 49131138

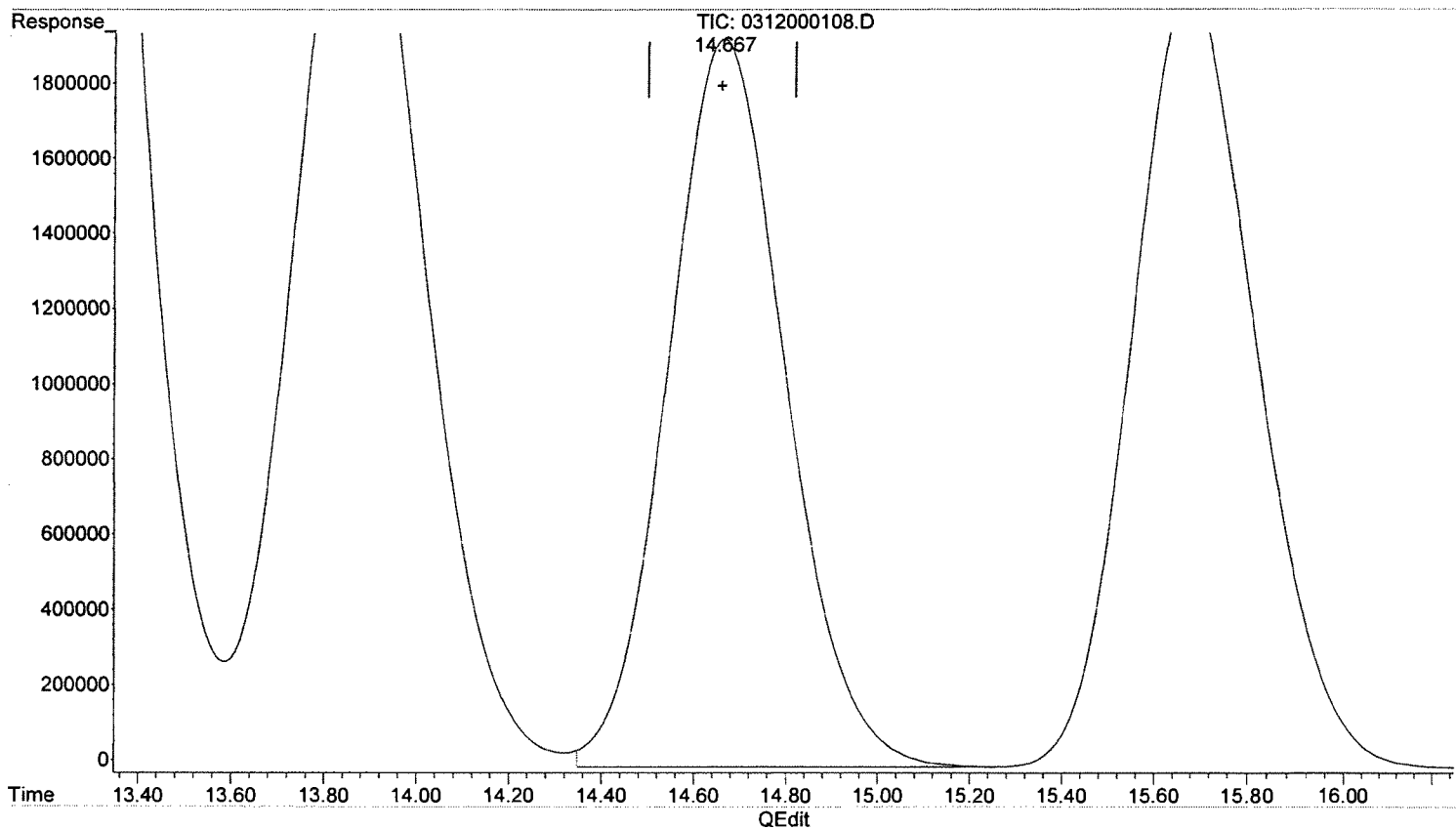
*SJ 3-17-15*  
*BL*

*MSL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.667min 1051.962 ug/L  
response 34243184

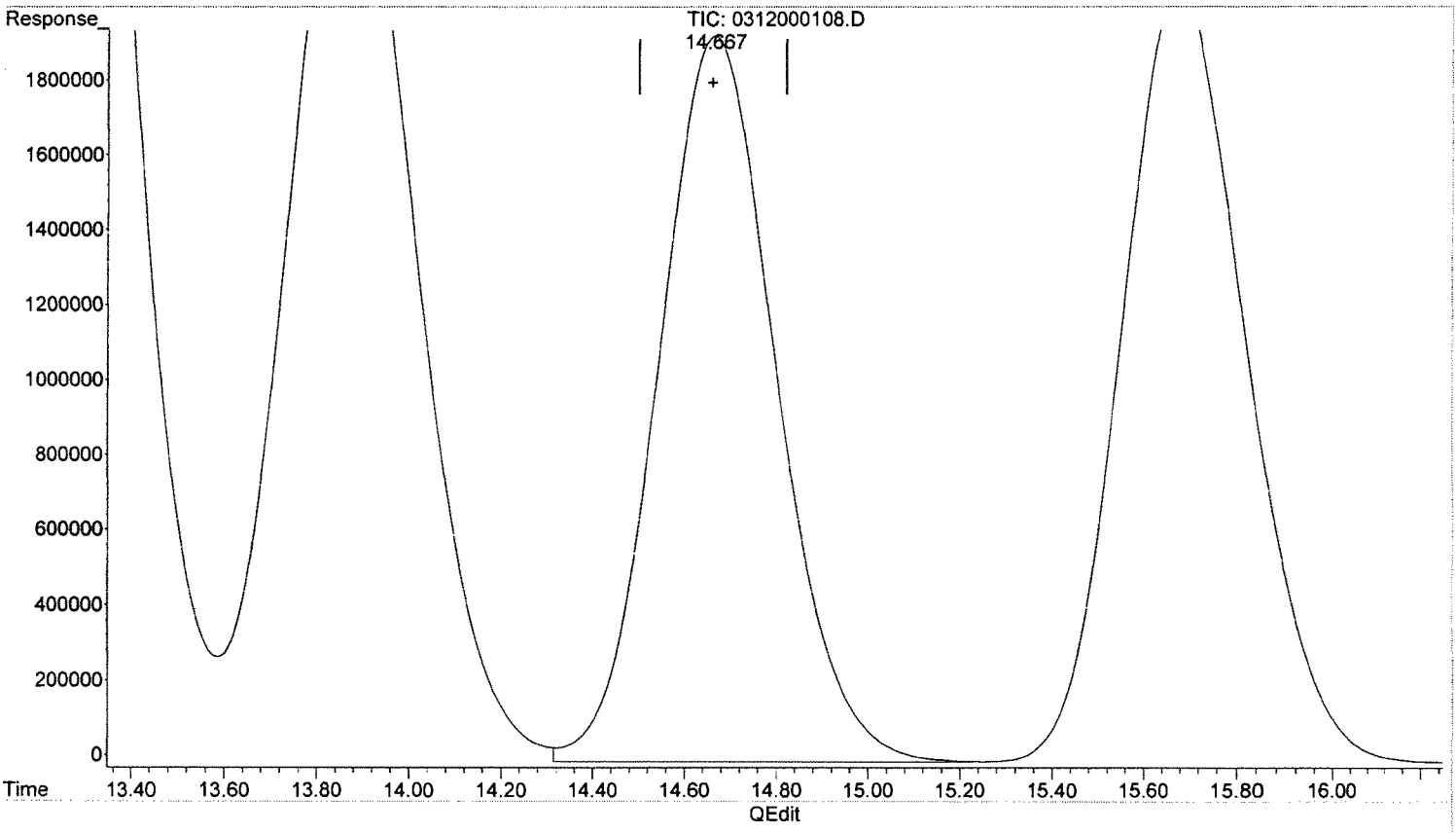
*SJ 3-17-15*

*MLL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.667min 1055.585 ug/L m  
response 34361124

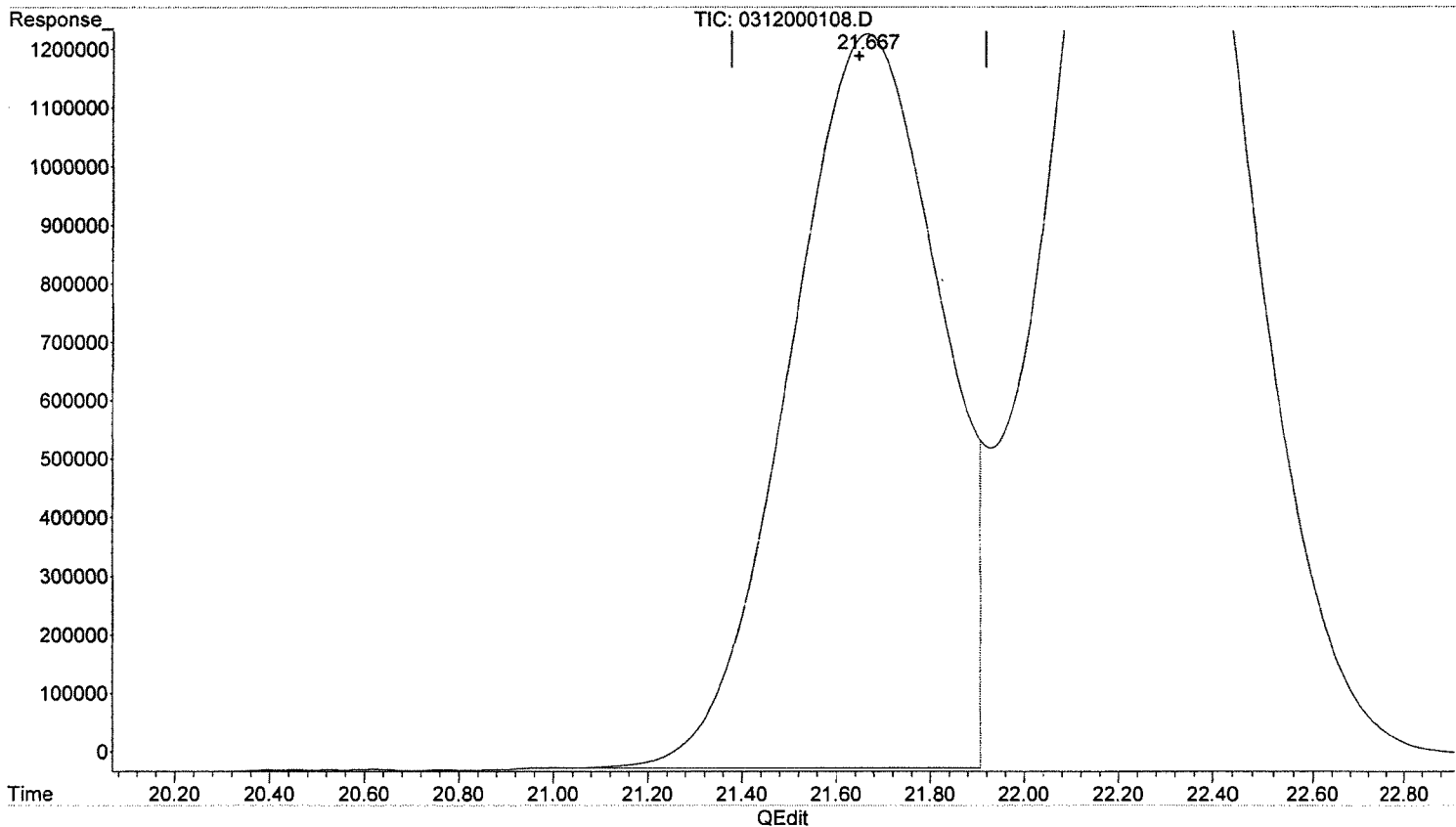
*3-17-15*  
*BL*

*3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.667min 953.377 ug/L  
response 27802722

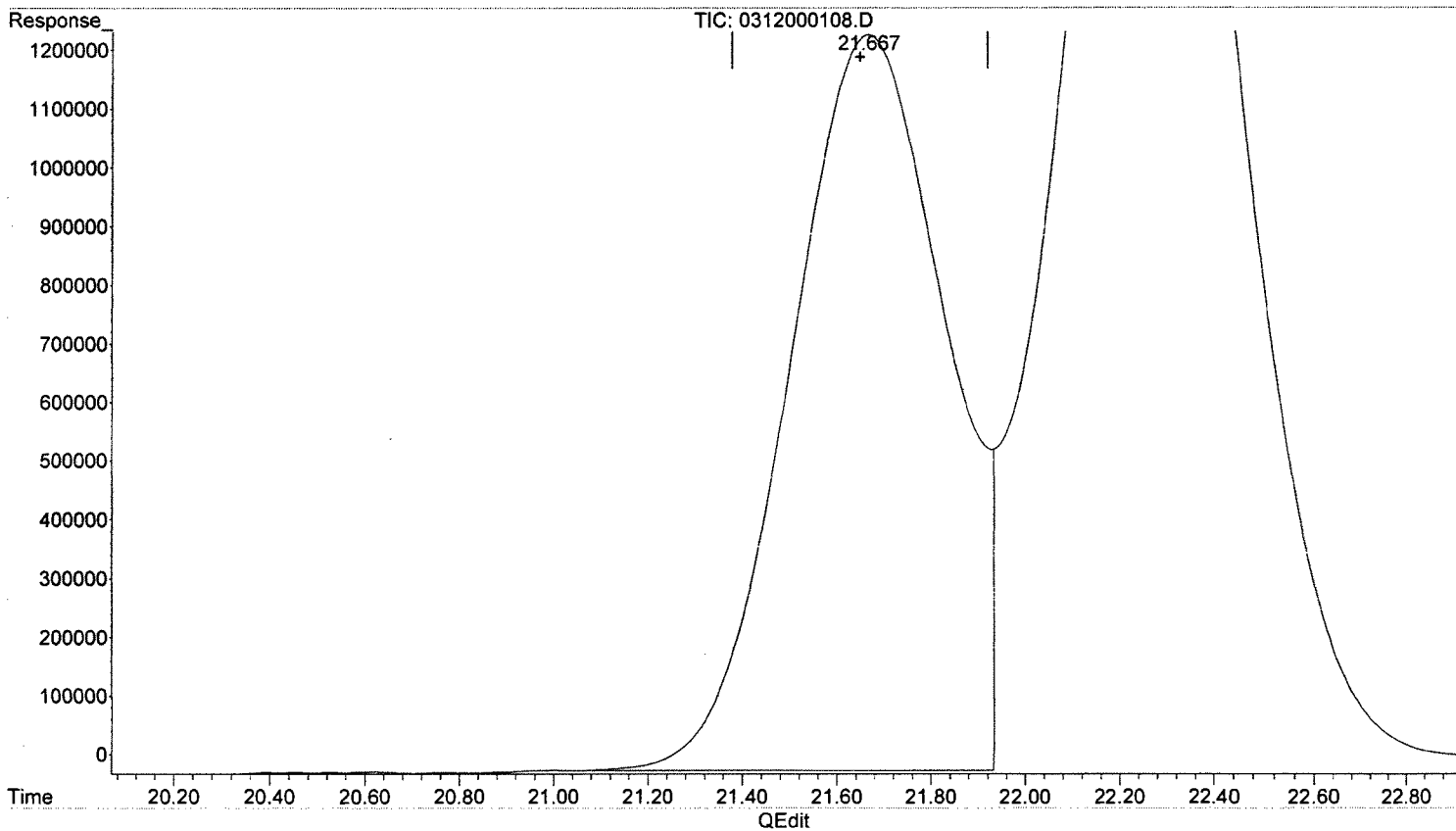
*3-17-15*

*3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.667min 983.491 ug/L m  
response 28680917

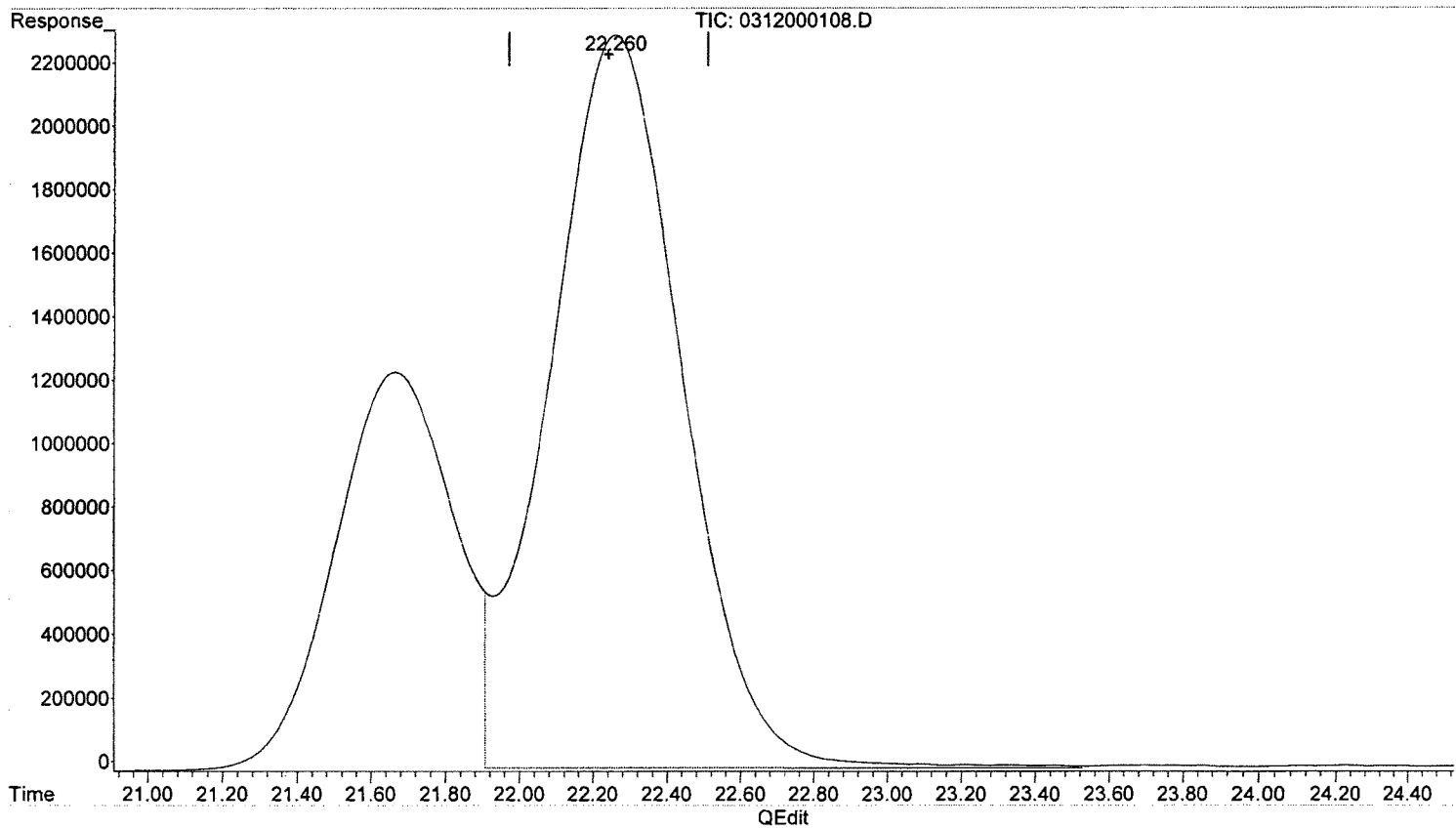
*SJ 3-17-15*  
*BL*

*MW 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.260min 1061.932 ug/L  
response 57699971

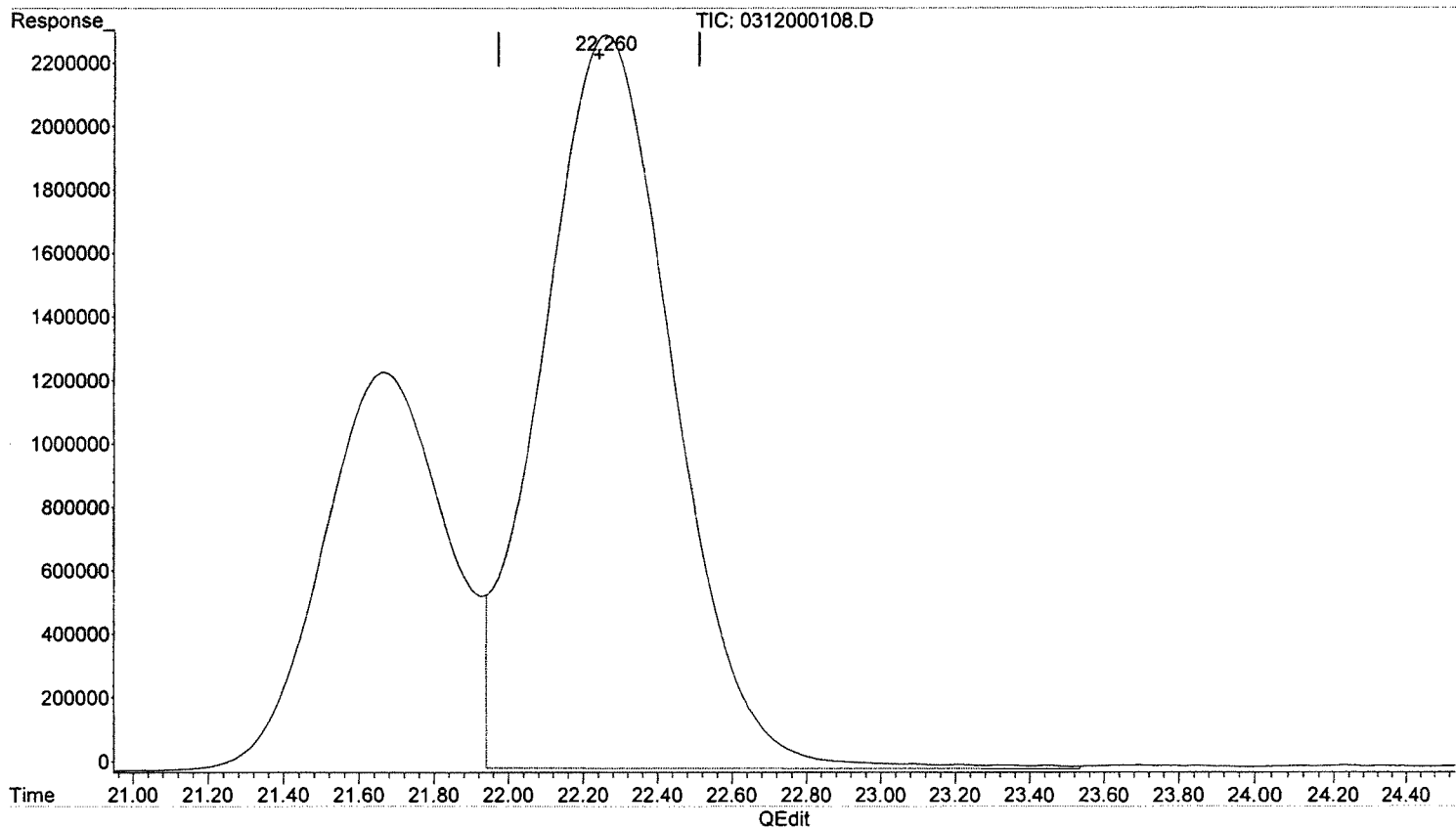
*SJ-17-15*

*M 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.260min 1044.976 ug/L m  
response 56778673

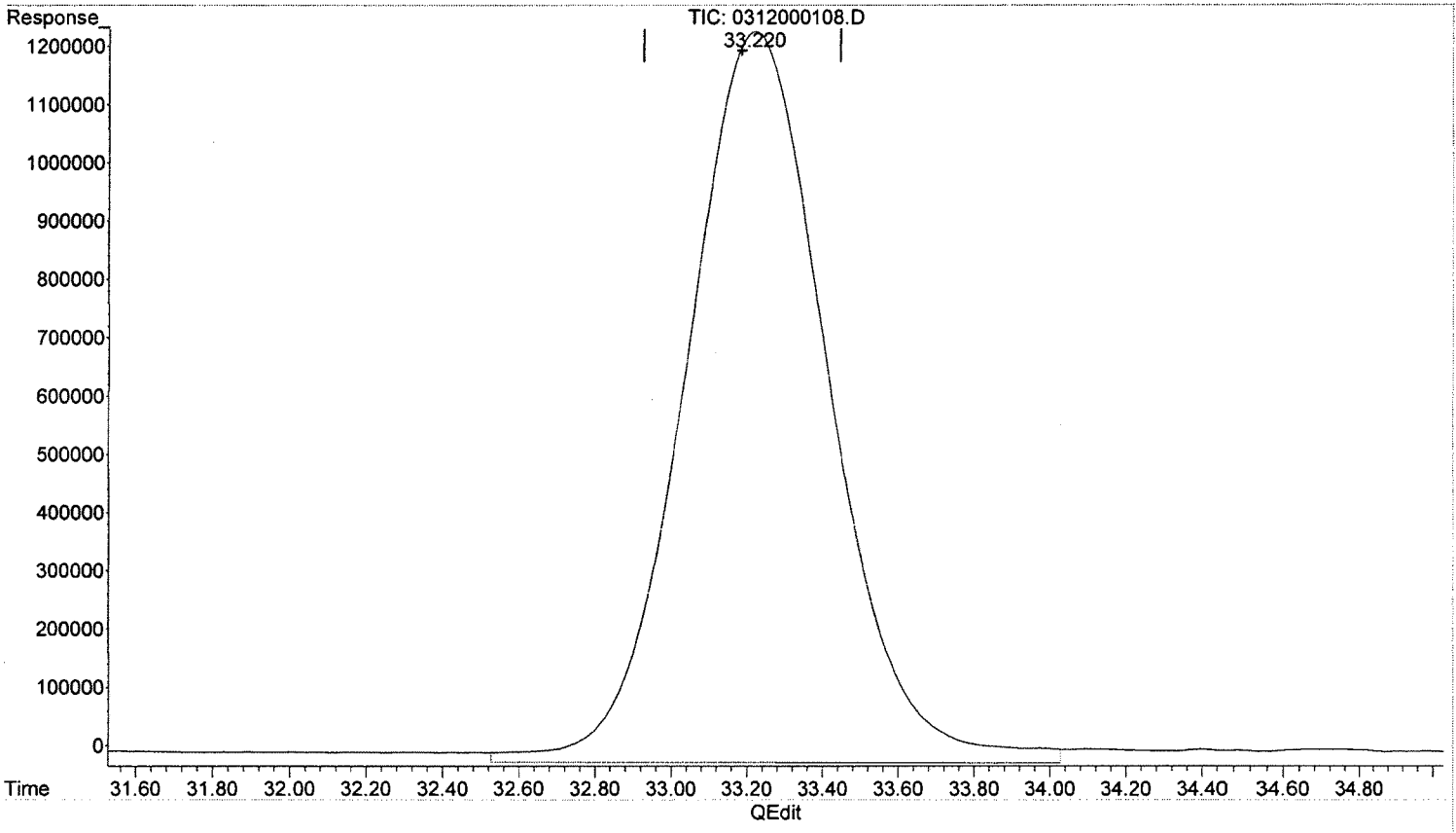
*sf3-17-15*  
*BL*

*MH 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.220min 1091.477 ug/L  
response 32869246

*SJ 3-17-15*

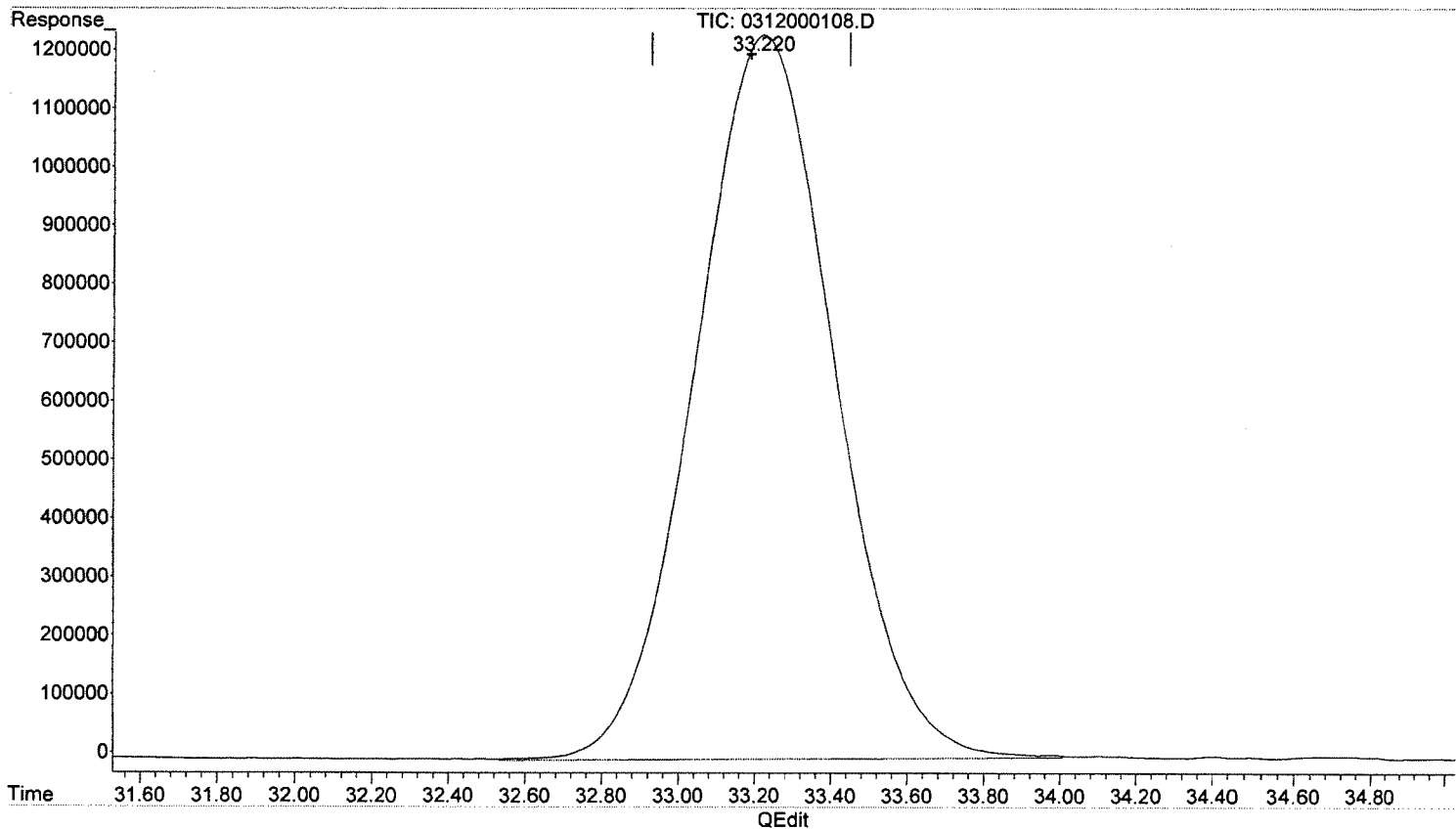
*Md 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.220min 1037.734 ug/L m  
response 31250806

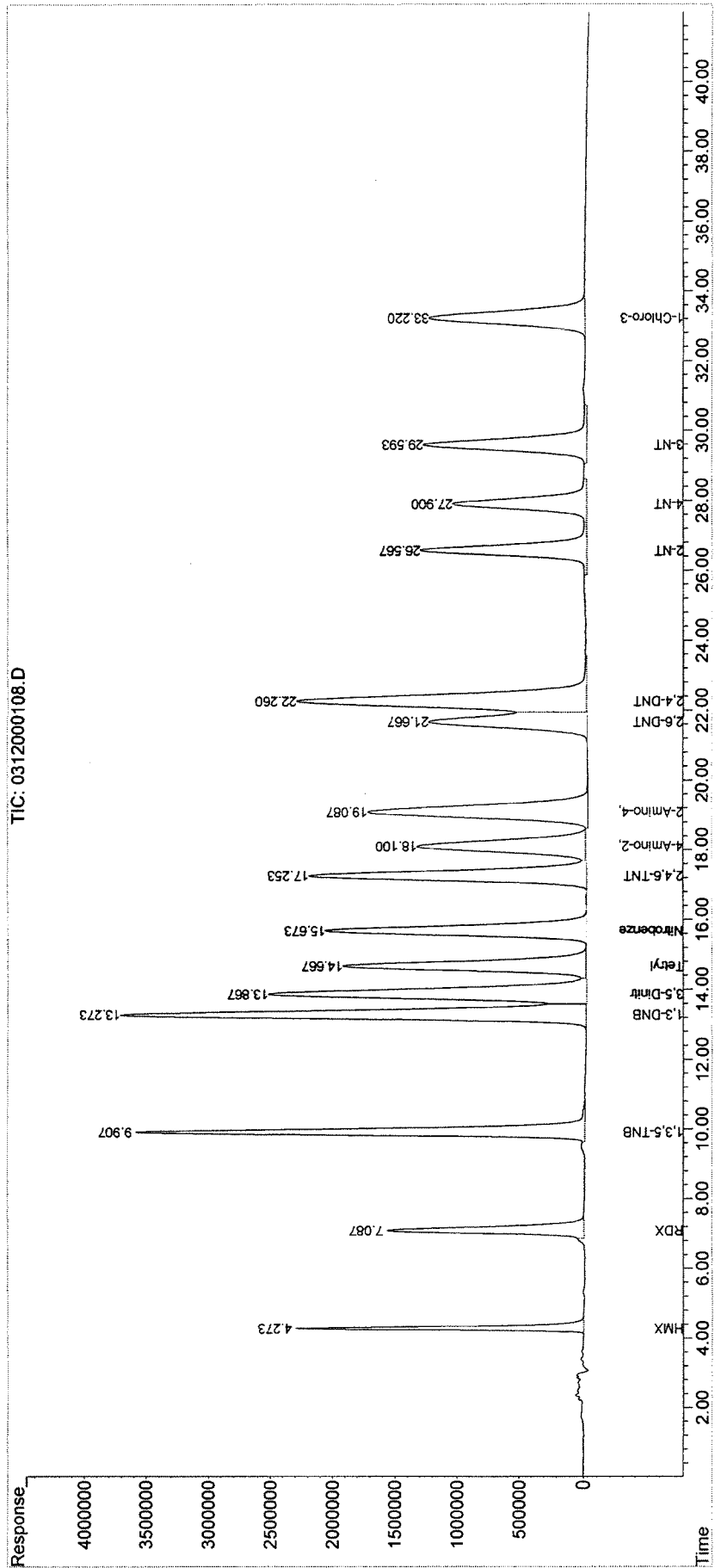
*SJ 3-17-15  
BL*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000108.D  
Signal(s) : DADIA.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 13:41:56 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000109.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 23:28:37  
Operator : SJ  
Sample : 14-OLC-01-52G 2000PPB  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 13:43:16 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.227	60441740	2007.067 ug/L m
Target Compounds			
1) T HMX	4.274	30480966	1985.223 ug/L
2) T RDX	7.081	39125958	1945.437 ug/L
3) T 1,3,5-TNB	9.901	89386727	2013.621 ug/L
4) T 1,3-DNB	13.268	119622886	1967.452 ug/L
5) T 3,5-Dinitroaniline	13.861	94835717	1954.035 ug/L m
6) T Tetryl	14.654	67416548	2071.059 ug/L
7) T Nitrobenzene	15.668	74759321	2016.527 ug/L
8) T 2,4,6-TNT	17.241	81624600	1978.279 ug/L
9) T 4-Amino-2,6-DNT	18.081	58790651	1992.854 ug/L
10) T 2-Amino-4,6-DNT	19.067	81242600	2023.439 ug/L
11) T 2,6-DNT	21.641	54862472	1881.277 ug/L
12) T 2,4-DNT	22.234	109687289	2018.727 ug/L
13) T 2-NT	26.554	50472748	2074.525 ug/L
14) T 4-NT	27.887	43016439	2063.863 ug/L
15) T 3-NT	29.587	55867406	2091.120 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

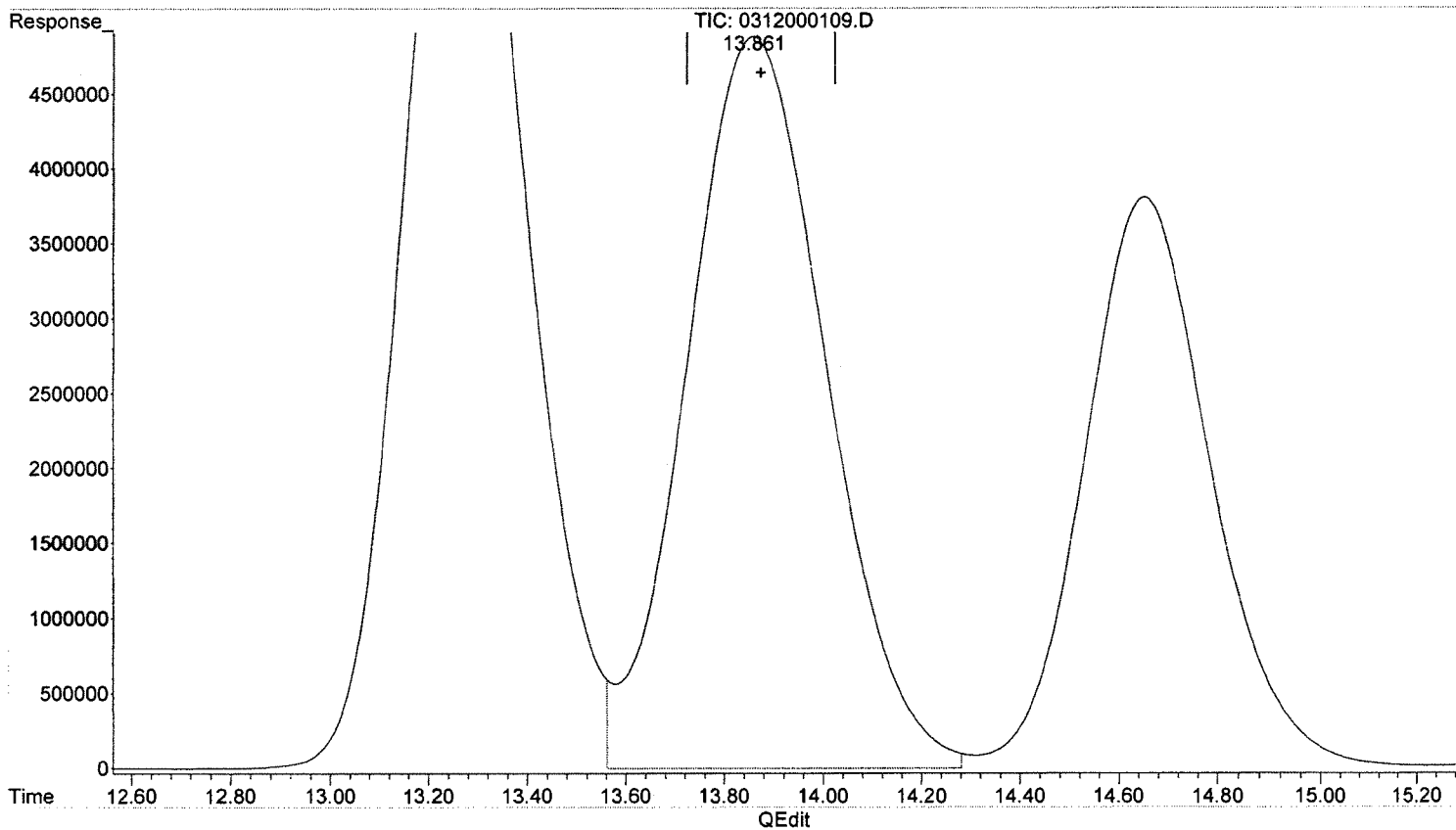
*3/3-17-15*

*M/S/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000109.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 23:28:37  
Operator : SJ  
Sample : 14-OLC-01-52G 2000PPB  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:16 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.861min 1966.136 ug/L  
response 95423054

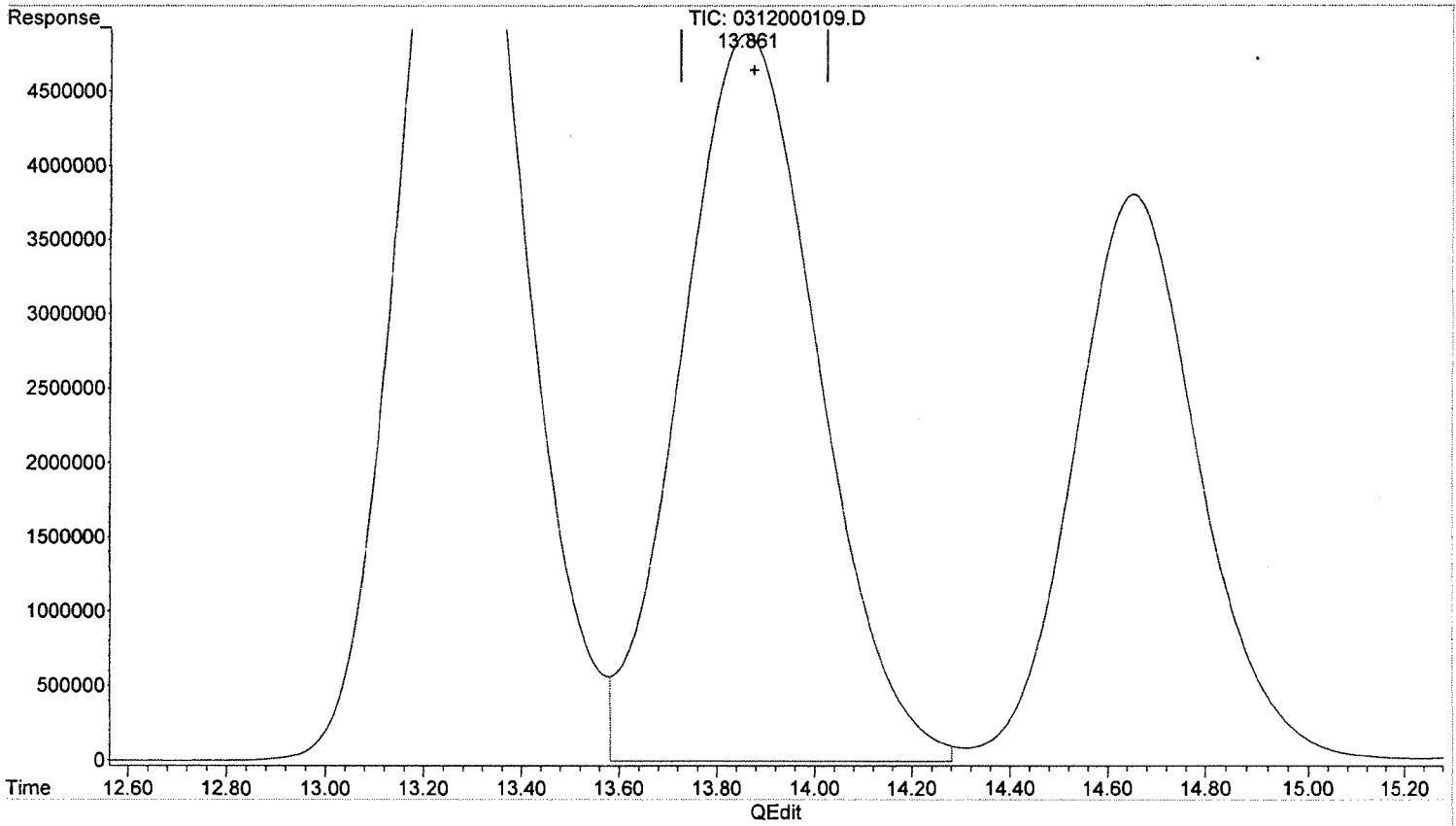
*SJ 3-17-15*

*ml 3/17 24/15  
ml 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000109.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 23:28:37  
Operator : SJ  
Sample : 14-OLC-01-52G 2000PPB  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:16 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.861min 1954.035 ug/L m  
response 94835717

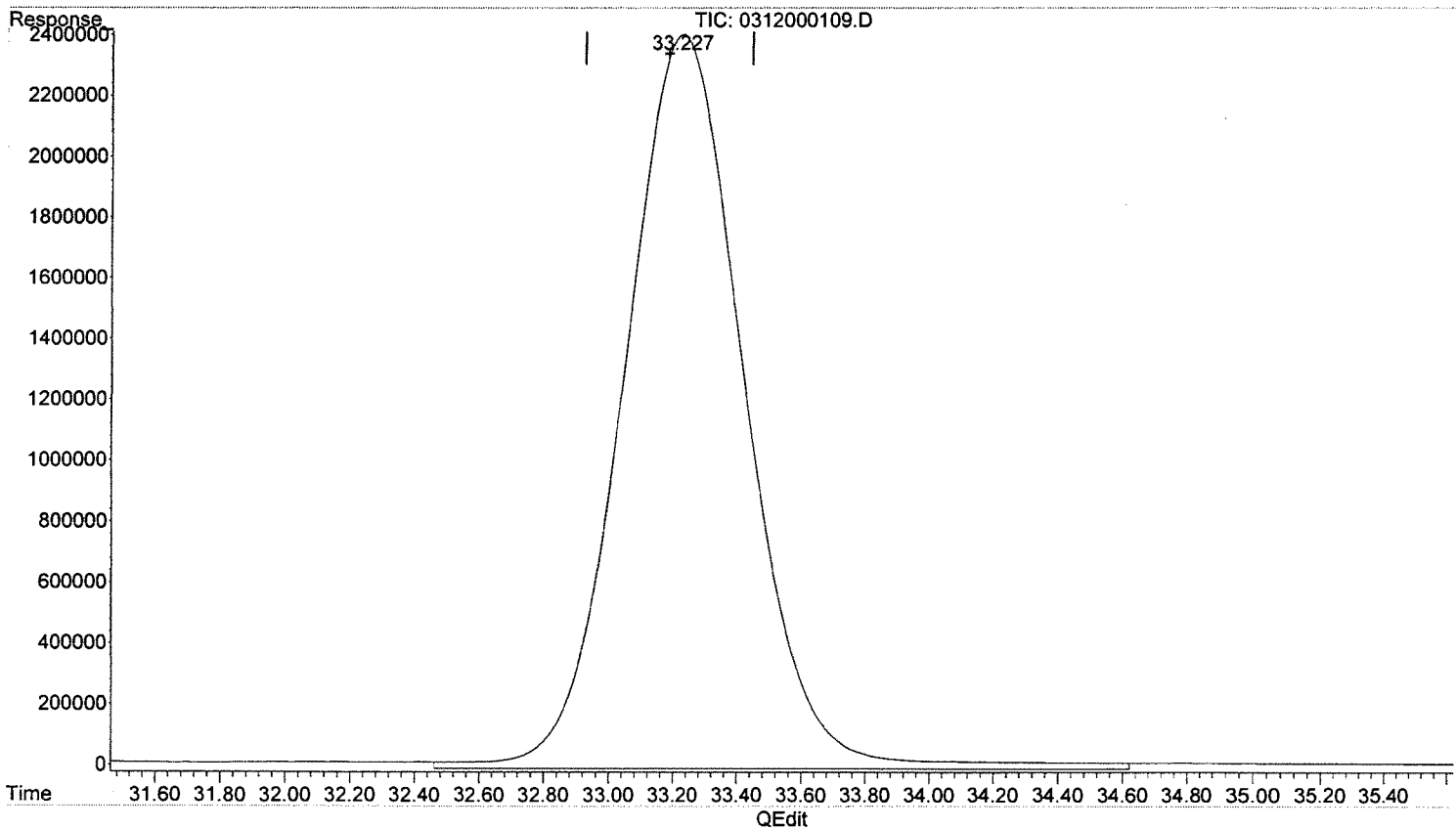
*Sf 3-17-15  
BL*

*all this*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000109.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 23:28:37  
Operator : SJ  
Sample : 14-OLC-01-52G 2000PPB  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:16 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)

33.227min 2101.017 ug/L

response 63270985

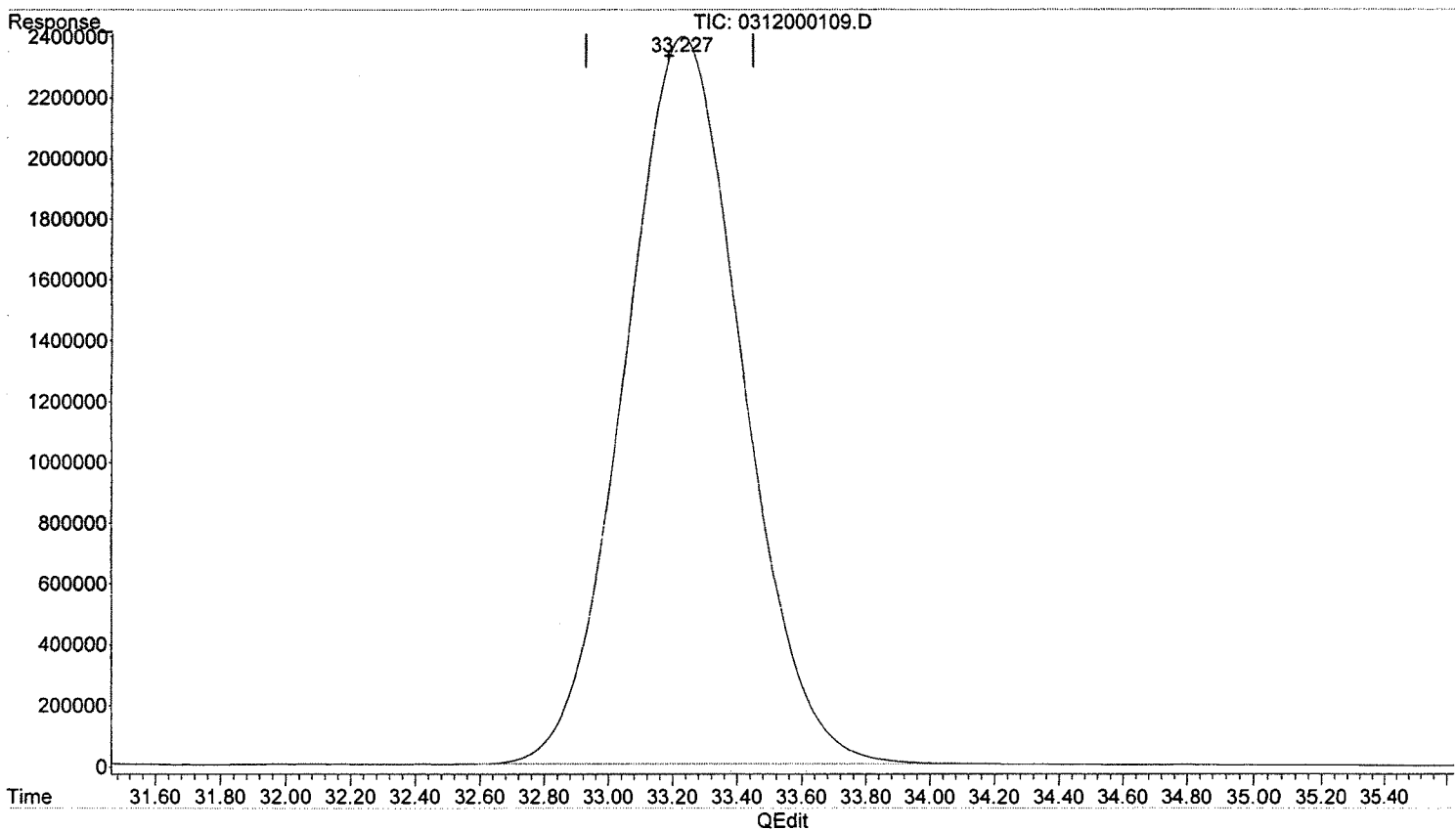
*SJ 3-17-15*

*msl 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000109.D  
Signal(s) : DAD1A.ch  
Acq On : 12-Mar-2015, 23:28:37  
Operator : SJ  
Sample : 14-OLC-01-52G 2000PPB  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:16 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



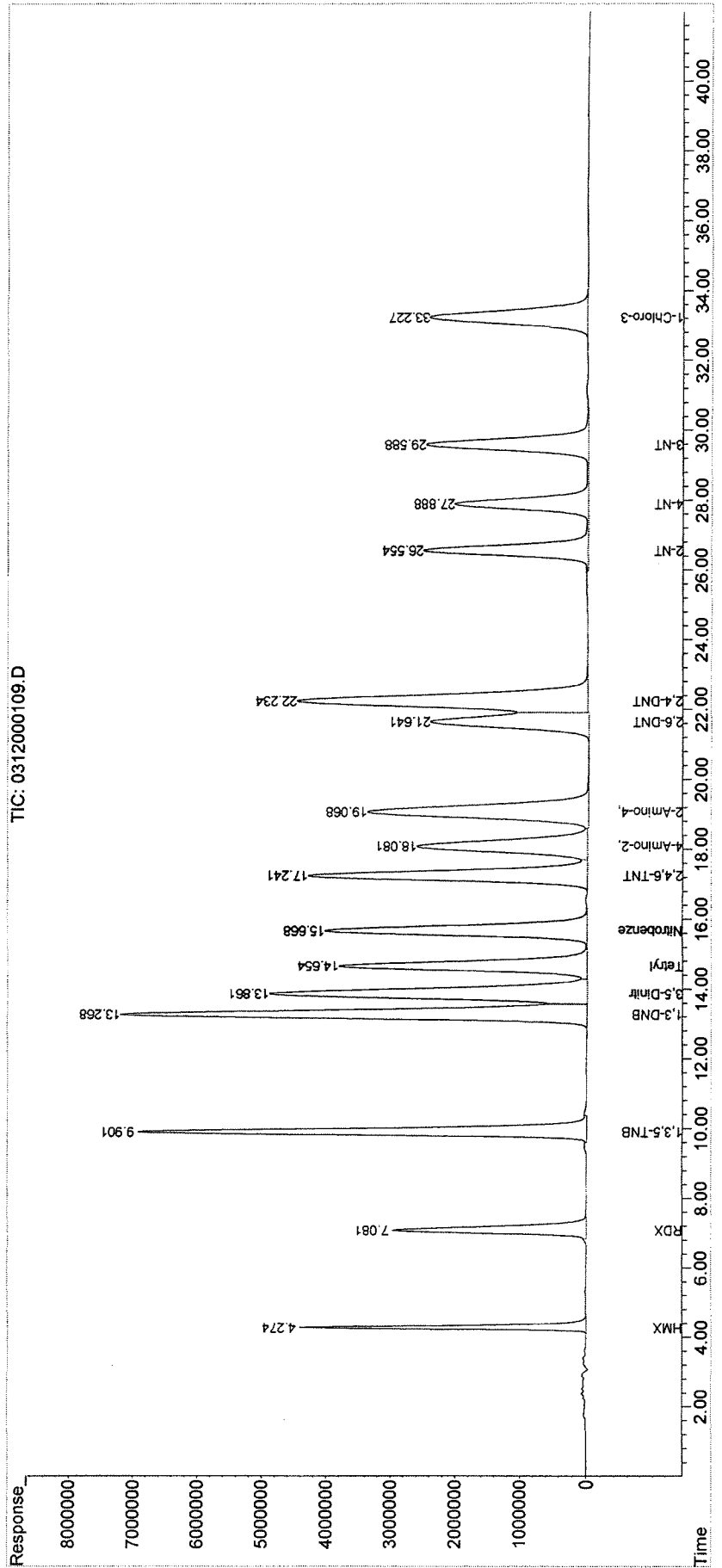
(16) 1-Chloro-3-Nitrobenzene (S)  
33.227min 2007.067 ug/L m  
response 60441740

*SJ 3-17-15*  
*WJL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000109.D  
Signal(s) : DADIA.ch  
Acq On : 12-Mar-2015, 23:28:37  
Operator : SJ  
Sample : 14-OLC-01-52G 2000PPB  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 13:43:16 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm





Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000110.D  
 Signal(s) : DAD1A.ch  
 Acq On : 13-Mar-2015, 00:14:52  
 Operator : SJ  
 Sample : 14-OLC-01-52H 5000PPB  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 13:45:31 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 QLast Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.235	162810614	5406.393	ug/L
Target Compounds				
1) T HMX	4.275	79962104	5207.926	ug/L m
2) T RDX	7.088	101682581	5055.904	ug/L m
3) T 1,3,5-TNB	9.908	233974635	5270.763	ug/L
4) T 1,3-DNB	13.268	318522512	5238.779	ug/L m
5) T 3,5-Dinitroaniline	13.868	251048286	5172.703	ug/L m
6) T Tetryl	14.668	178565720	5485.599	ug/L
7) T Nitrobenzene	15.675	198671574	5358.886	ug/L
8) T 2,4,6-TNT	17.255	217178000	5263.593	ug/L
9) T 4-Amino-2,6-DNT	18.088	156997095	5321.804	ug/L
10) T 2-Amino-4,6-DNT	19.075	214747734	5348.536	ug/L
11) T 2,6-DNT	21.648	143644295	4925.676	ug/L
12) T 2,4-DNT	22.241	293087726	5394.098	ug/L
13) T 2-NT	26.568	130634055	5369.306	ug/L
14) T 4-NT	27.895	110781165	5315.111	ug/L
15) T 3-NT	29.601	144775833	5418.967	ug/L

(f)=RT Delta > 1/2 Window

(m)=manual int.

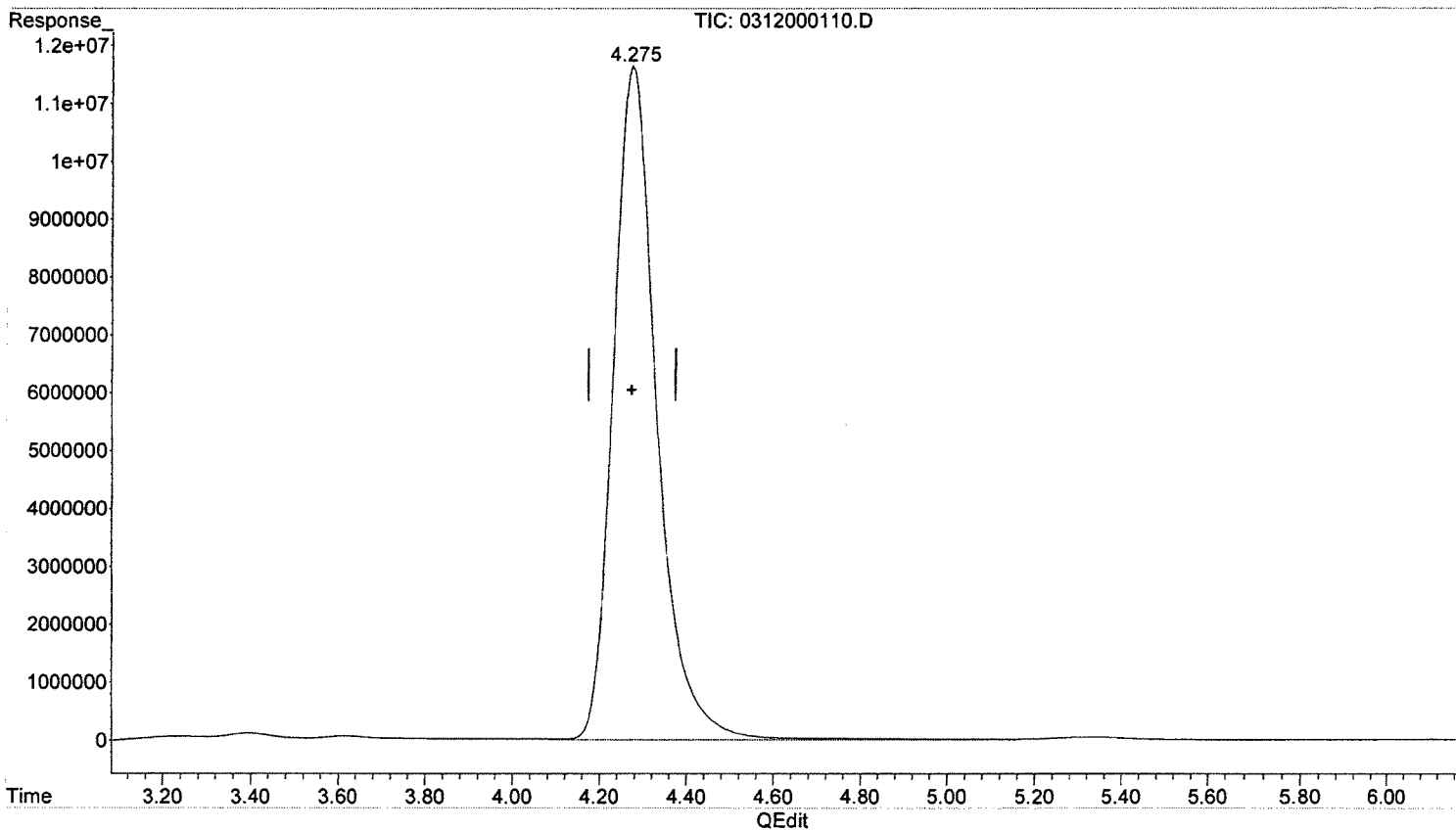
*3/3-17-15*

*M/3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000110.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:18 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.275min 5289.637 ug/L  
response 81216694

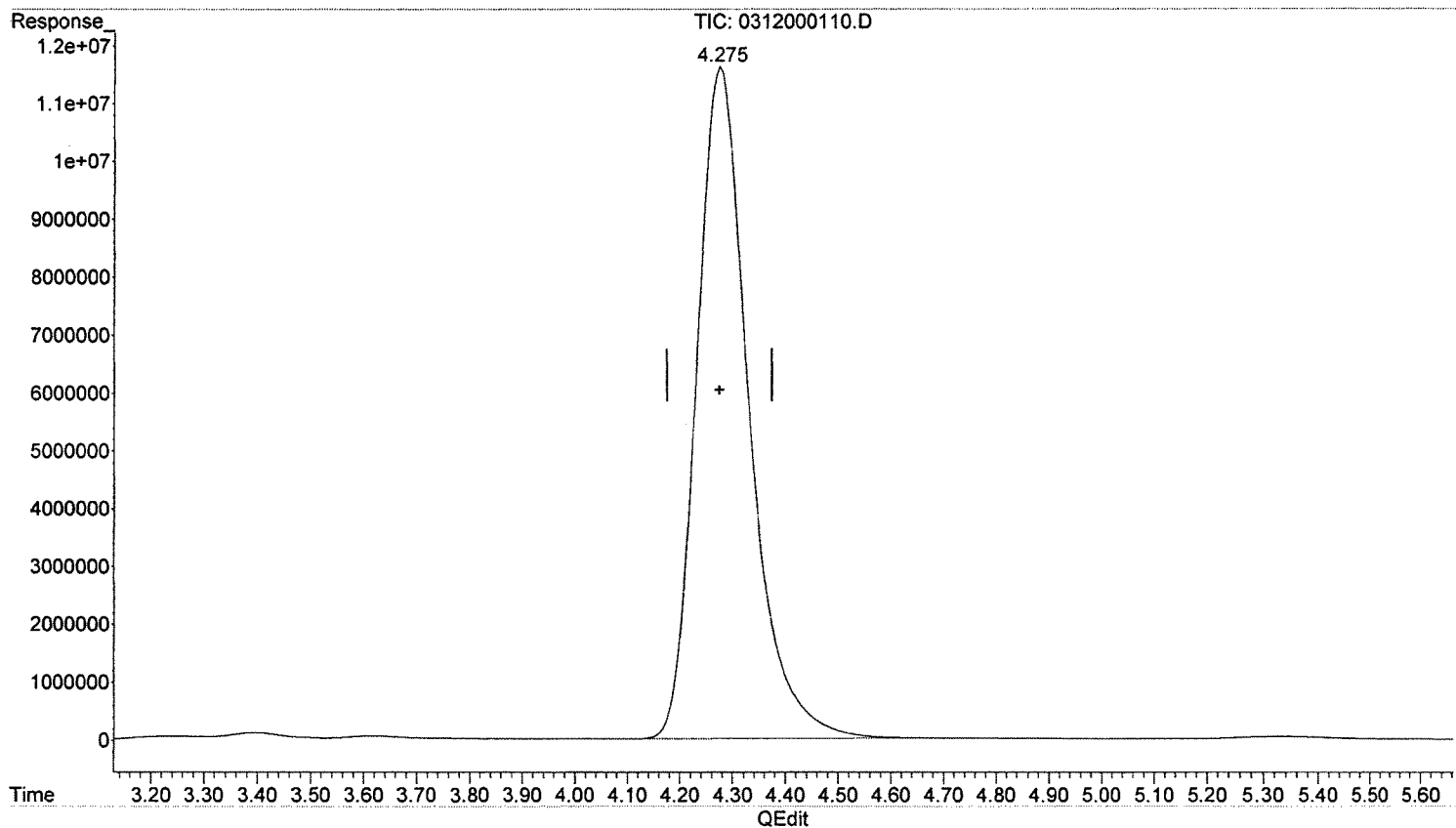
*SJ 3-17-15*

*MFL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000110.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:18 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.275min 5207.926 ug/L m  
response 79962104

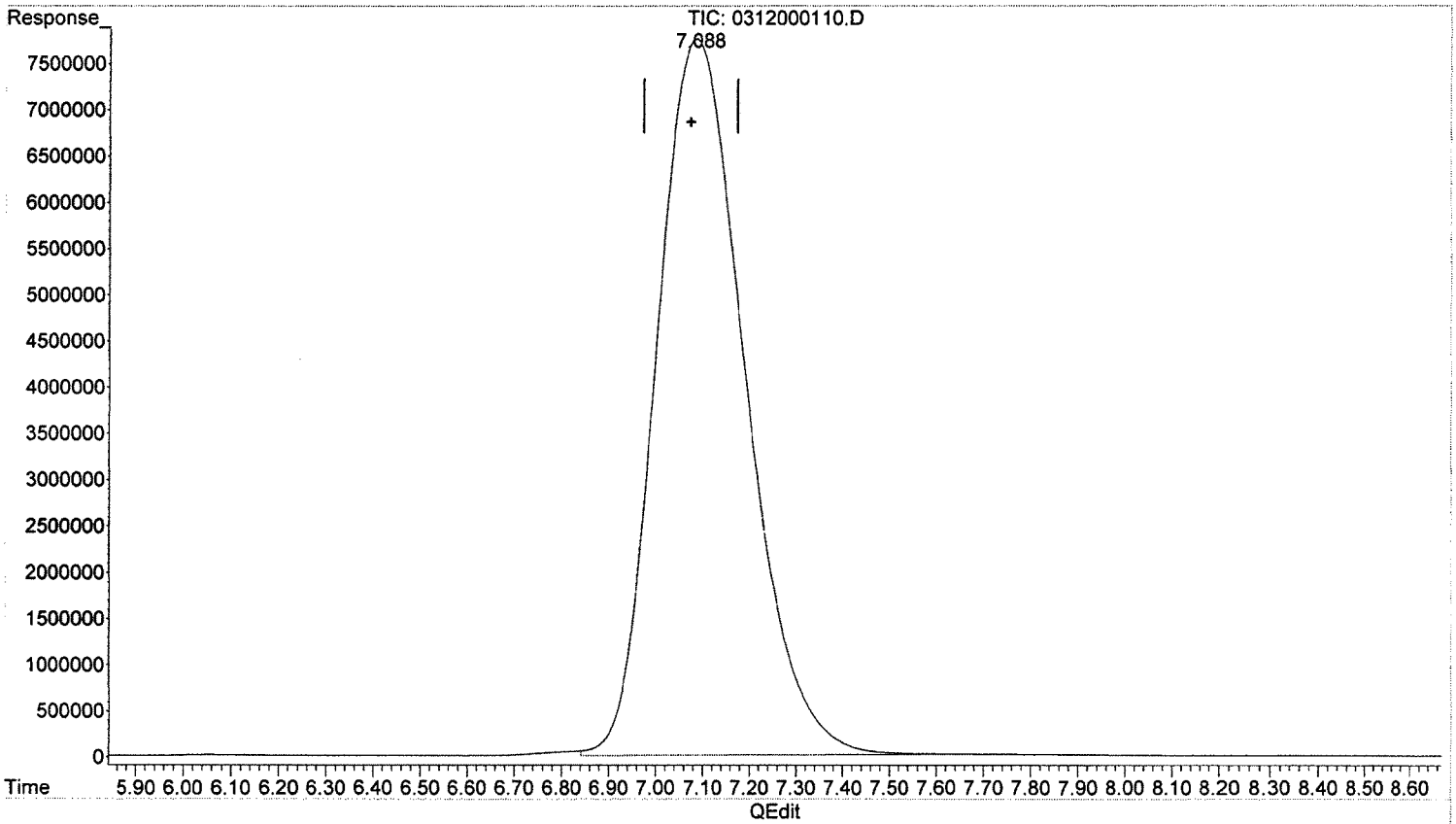
*3-17-15*  
*BL*

*M 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000110.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:18 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.088min 5055.904 ug/L m  
response 101682581

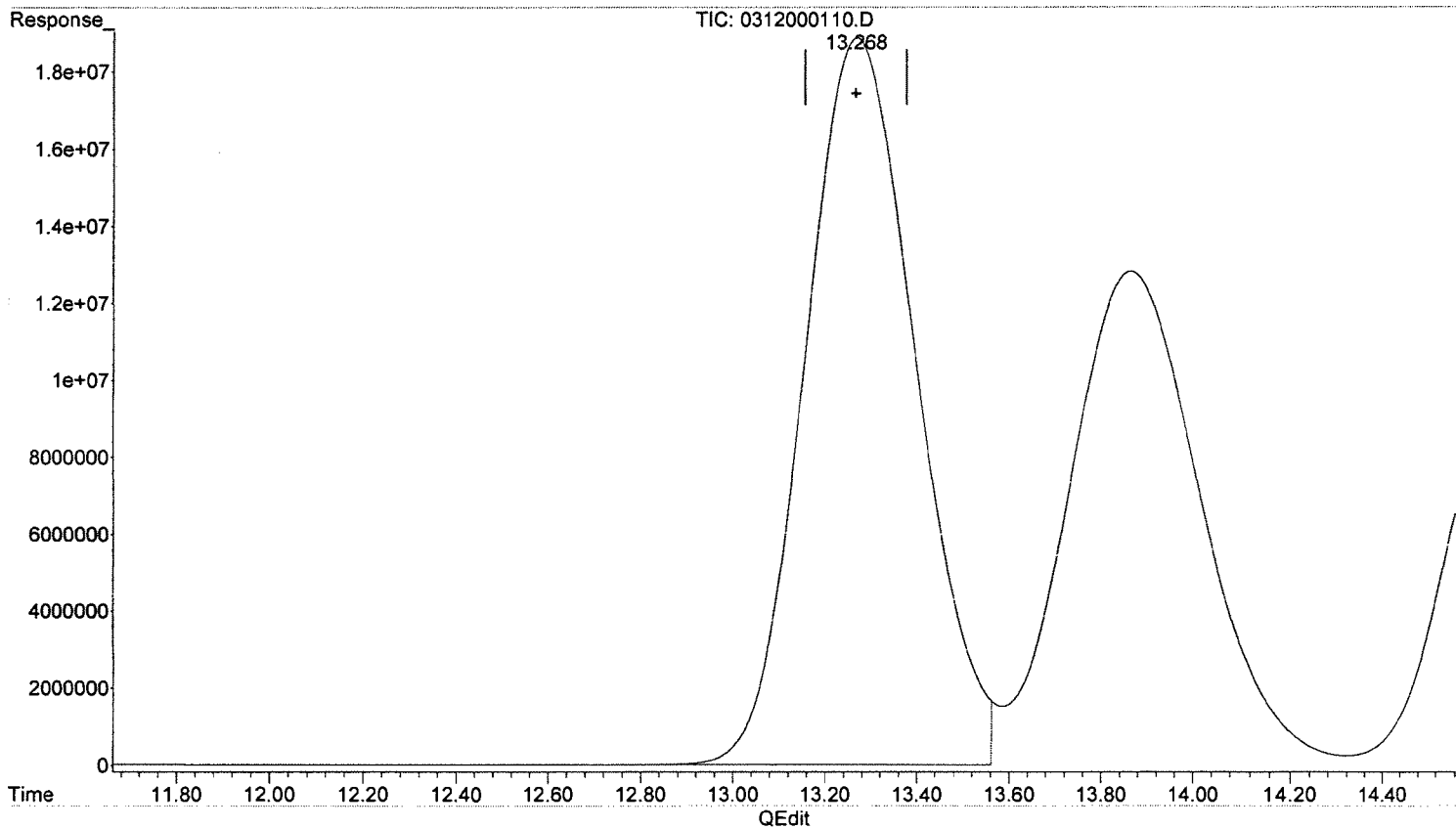
*Sf 3-17-15  
BL  
Forgot Original*

*MJL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000110.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:18 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.268min 5197.196 ug/L  
response 315994235

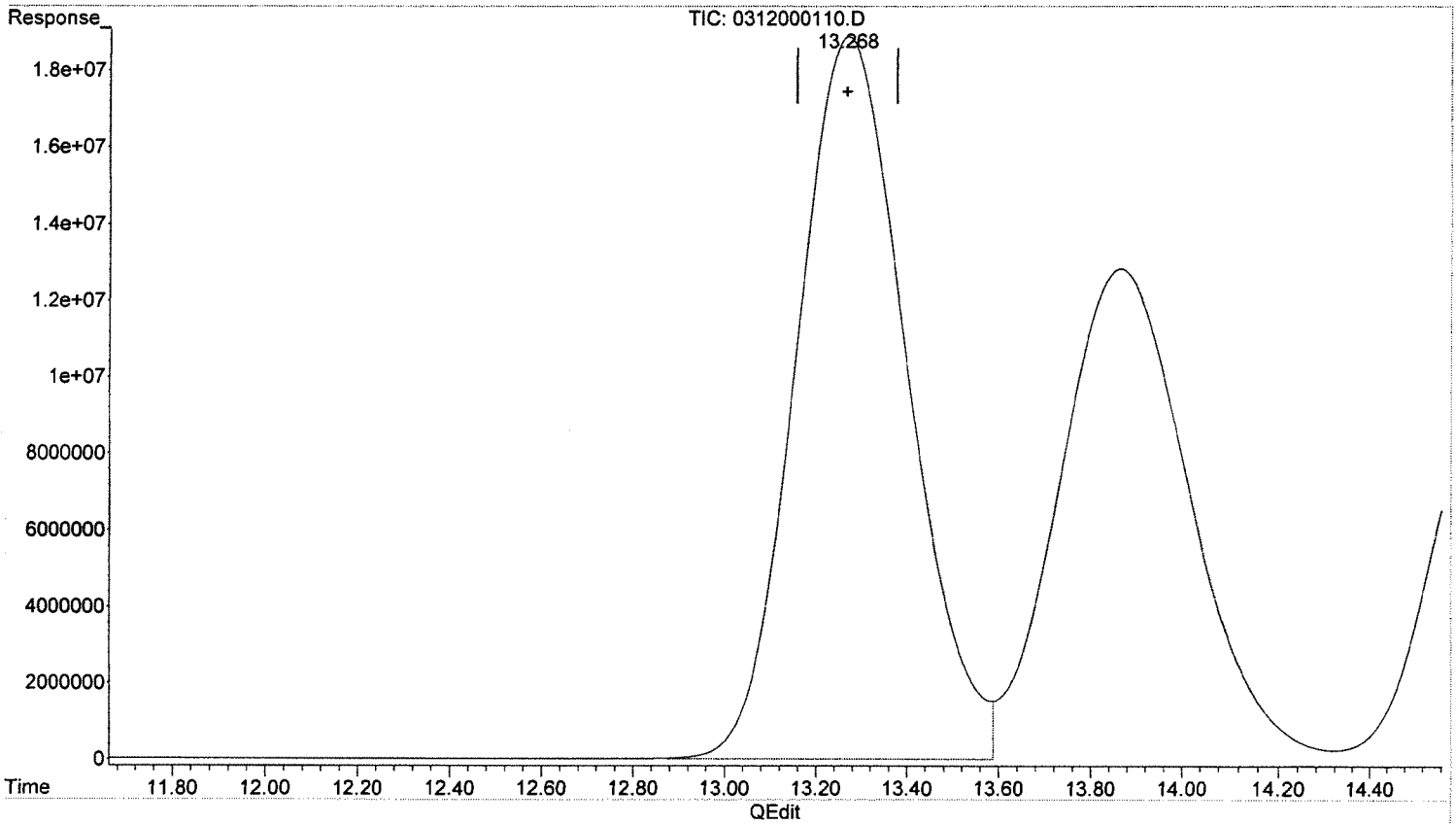
*Sf 3-17-15*

*MH 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000110.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:18 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.268min 5238.779 ug/L m  
response 318522512

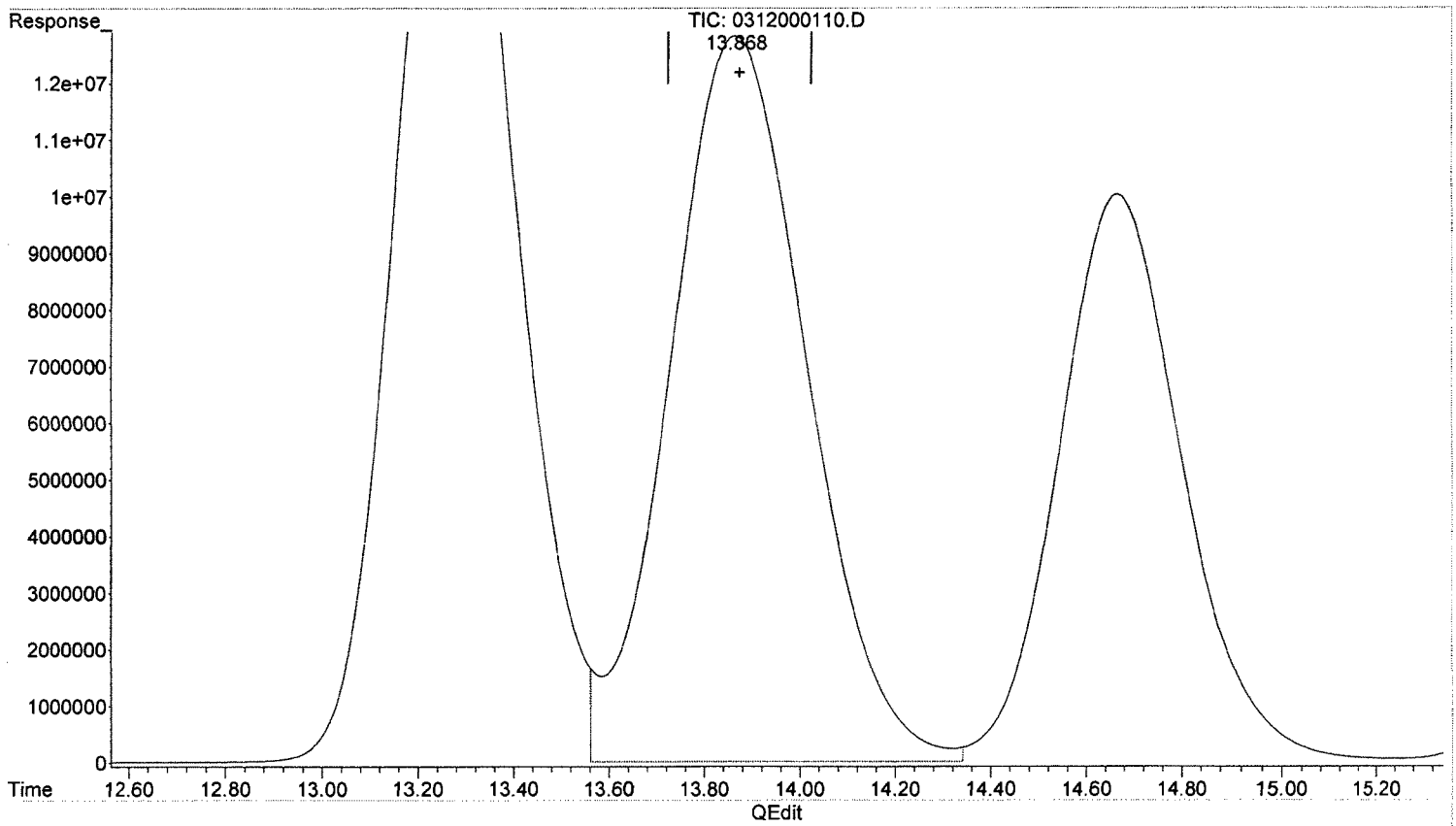
*SJ 3-17-15*  
*BL*

*mpl 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000110.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:18 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.868min 5231.332 ug/L  
response 253893720

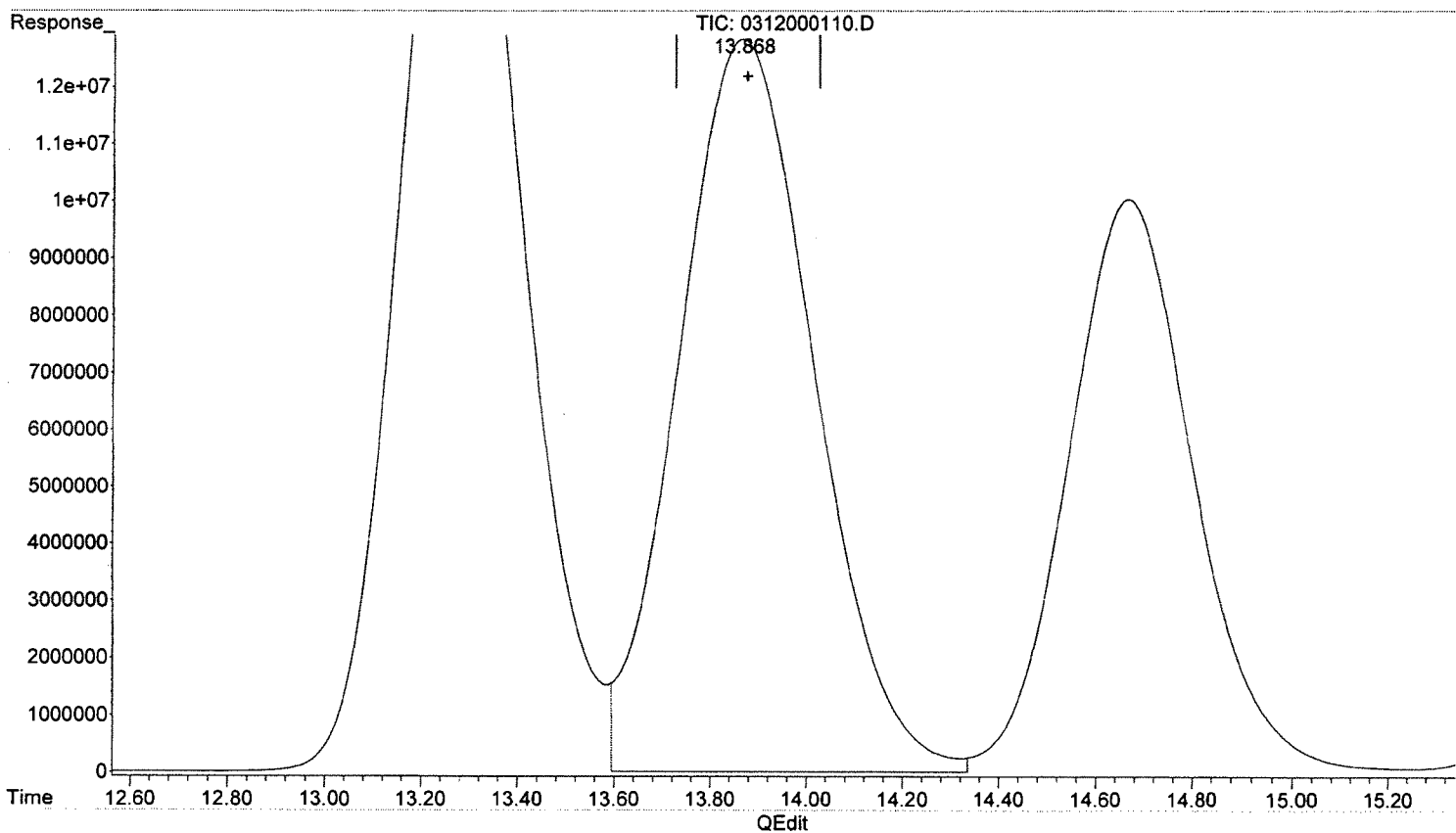
*SJ 3-17-15*

*ref 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000110.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:18 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.868min 5172.703 ug/L m  
response 251048286

*SJ 3-17-15*  
*BL*

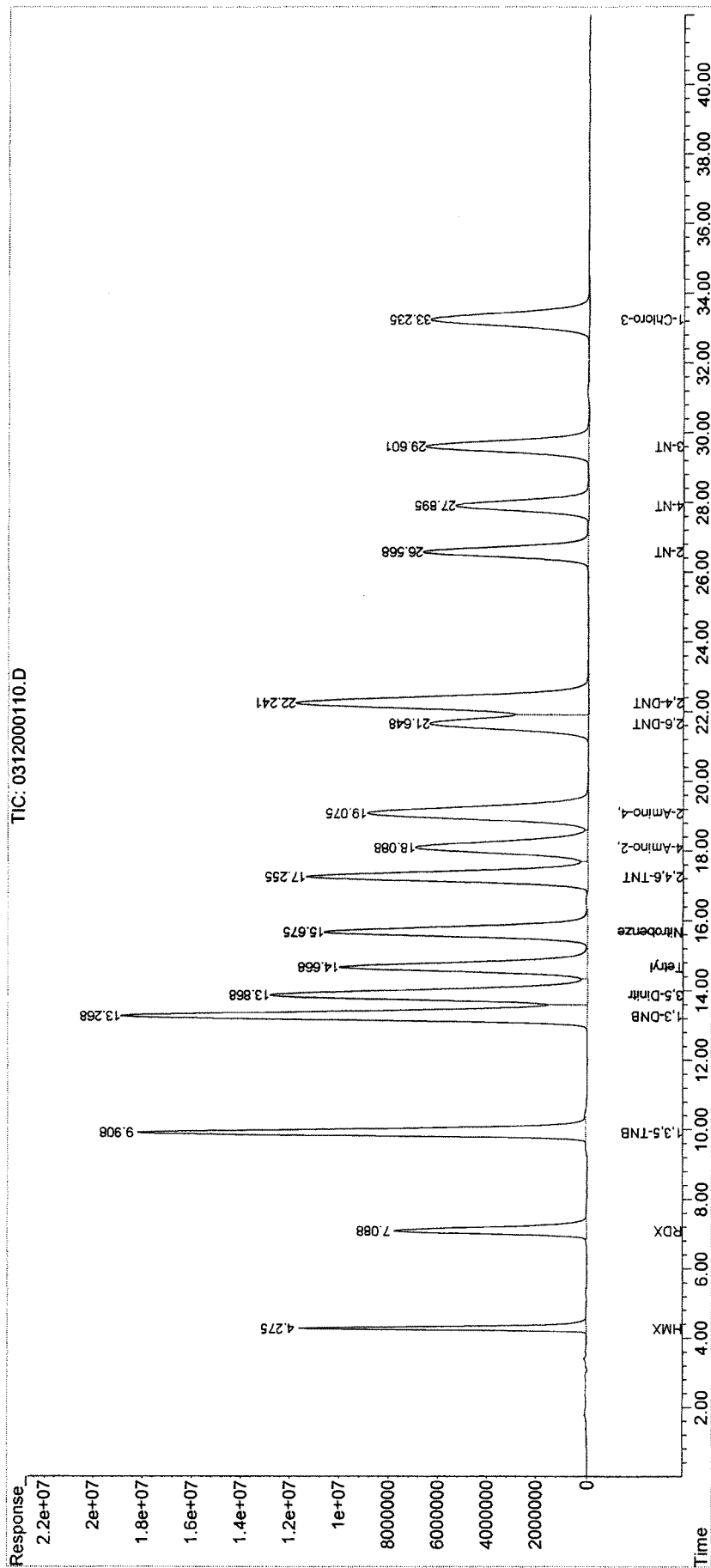
*ML 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000110.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 13:45:31 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CALL3118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000111.D  
 Signal(s) : DAD1A.ch  
 Acq On : 13-Mar-2015, 01:01:10  
 Operator : SJ  
 Sample : 14-OLC-01-52I 10000PPB  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 13:47:41 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 QLast Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.215	323381766	10738.421	ug/L
Target Compounds				
1) T HMX	4.275	158636343	10331.973	ug/L m
2) T RDX	7.081	203163854	10101.798	ug/L
3) T 1,3,5-TNB	9.908	471884189	10630.167	ug/L
4) T 1,3-DNB	13.268	632048364	10395.378	ug/L m
5) T 3,5-Dinitroaniline	13.861	500039969	10303.032	ug/L m
6) T Tetryl	14.661	354992175	10905.478	ug/L
7) T Nitrobenzene	15.675	394991387	10654.336	ug/L
8) T 2,4,6-TNT	17.248	432912729	10492.207	ug/L
9) T 4-Amino-2,6-DNT	18.075	312809334	10603.444	ug/L
10) T 2-Amino-4,6-DNT	19.055	428243224	10665.884	ug/L
11) T 2,6-DNT	21.635	291659623	10001.238	ug/L
12) T 2,4-DNT	22.221	579205375	10659.916	ug/L
13) T 2-NT	26.541	256818028	10555.706	ug/L
14) T 4-NT	27.868	218171962	10467.557	ug/L
15) T 3-NT	29.575	287224541	10750.830	ug/L
-----				

(f)=RT Delta > 1/2 Window

(m)=manual int.

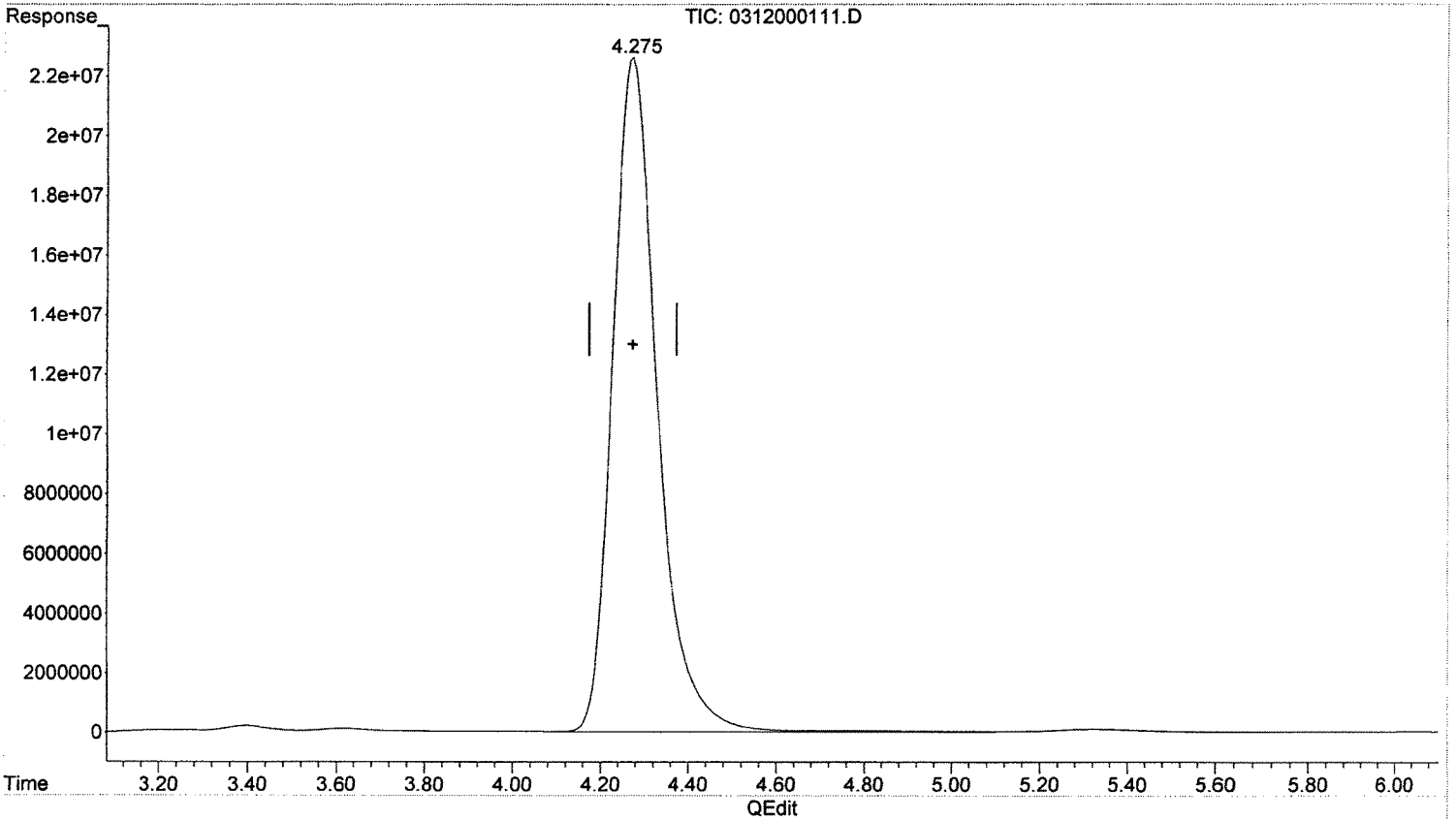
*SJ 3-17-15*

*ML 3/16/15  
ML 3/21/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000111.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:20 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.275min 10458.415 ug/L  
response 160577711

*SJ 3-17-15*

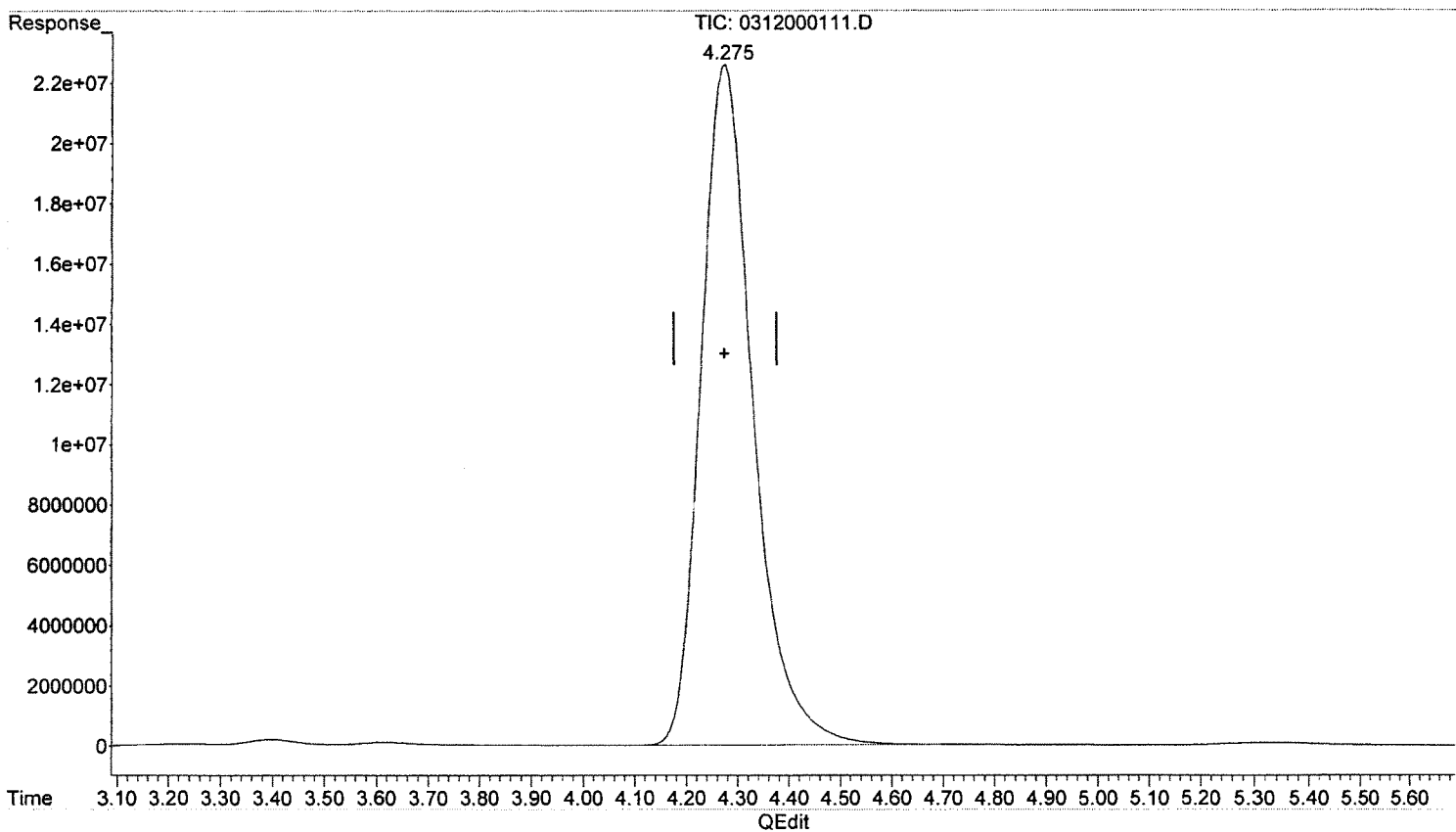
*MH 3/24/15*

Quantitation Report (Qedit)

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000111.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:20 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.275min 10331.973 ug/L m  
response 158636343

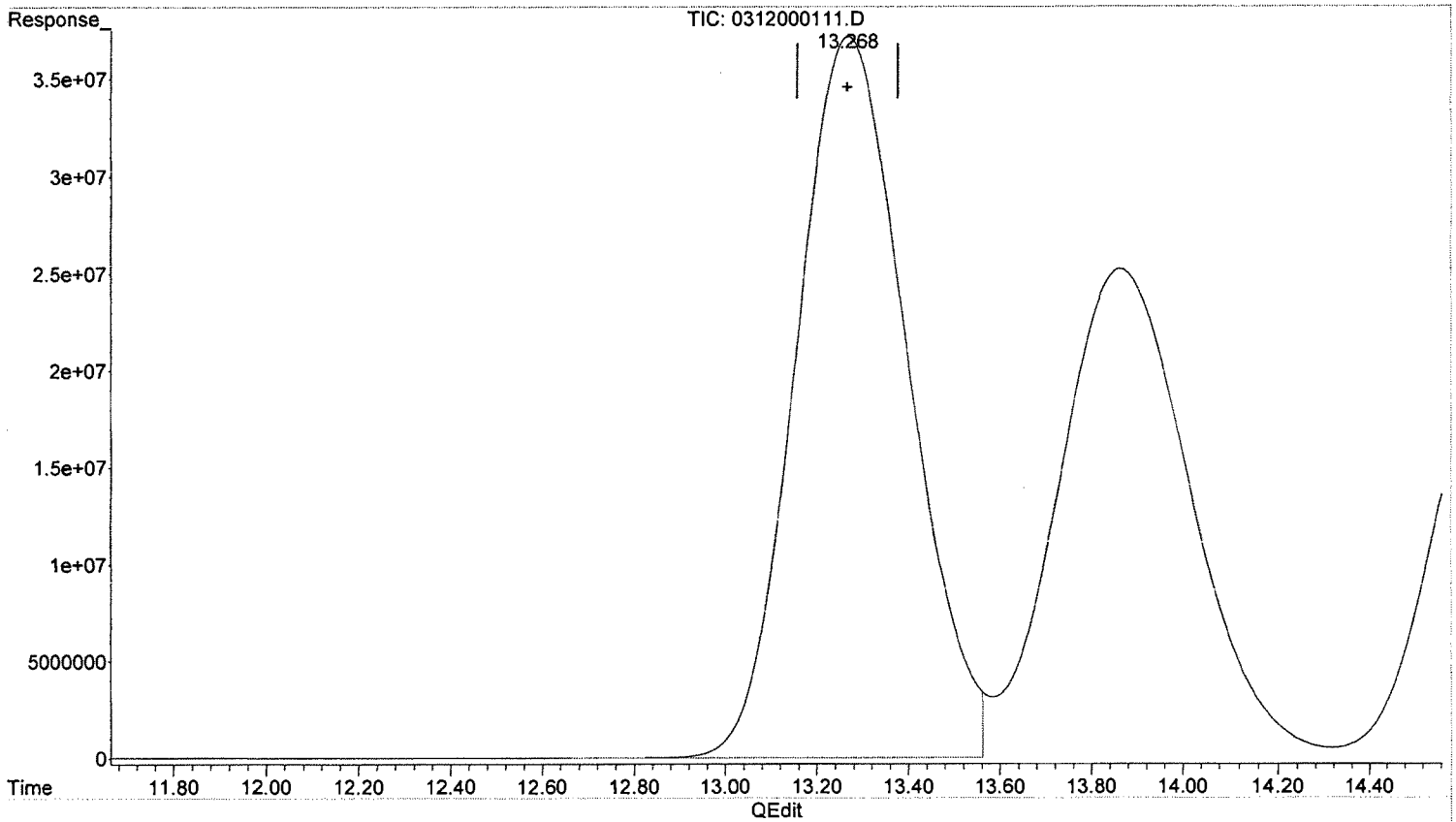
SJ 3-17-15  
BL

*Handwritten signature*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000111.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:20 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.268min 10325.566 ug/L  
response 627803755

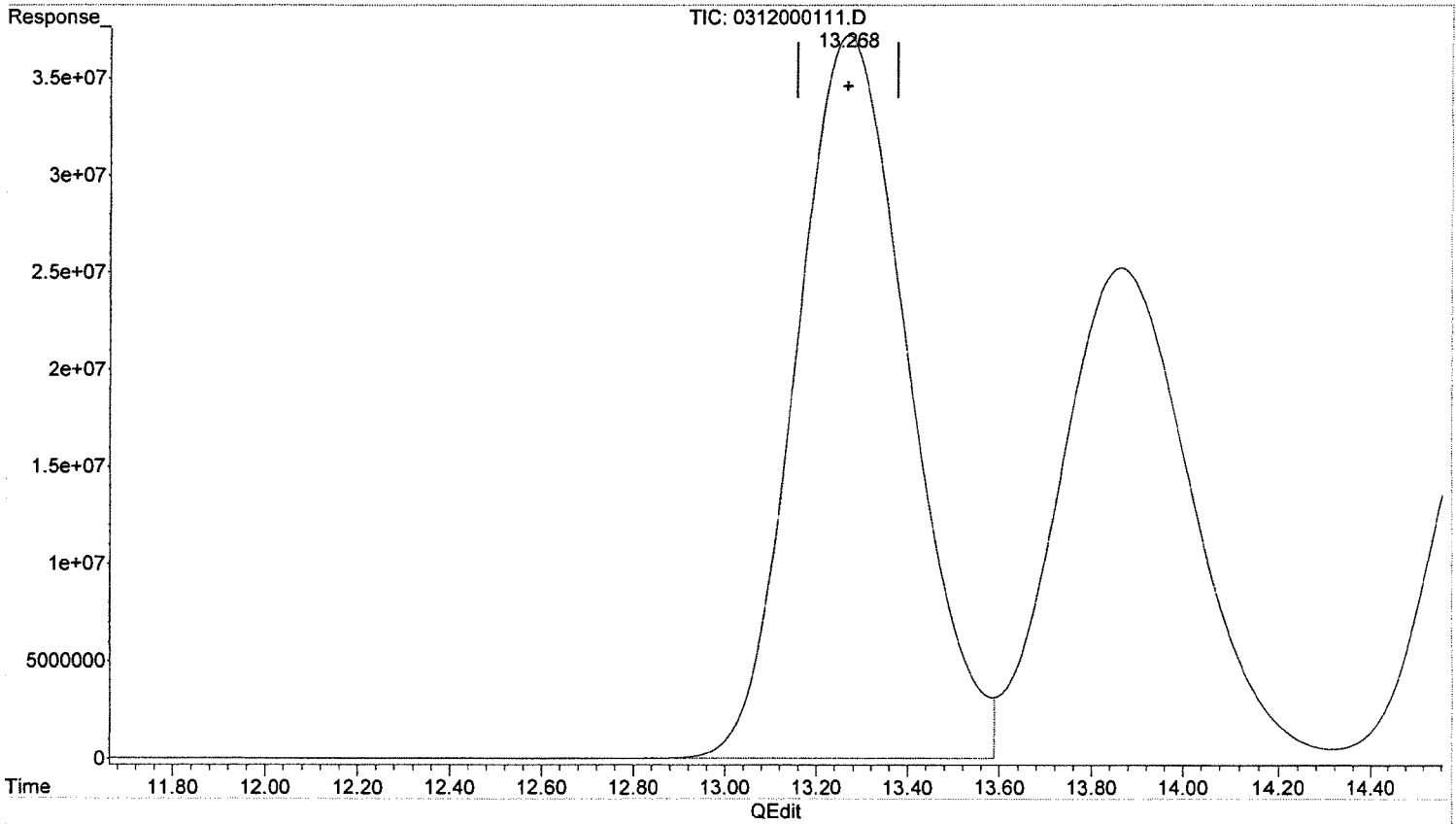
*Sf 3-17-15*

*WJL 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000111.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:20 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.268min 10395.378 ug/L m  
response 632048364

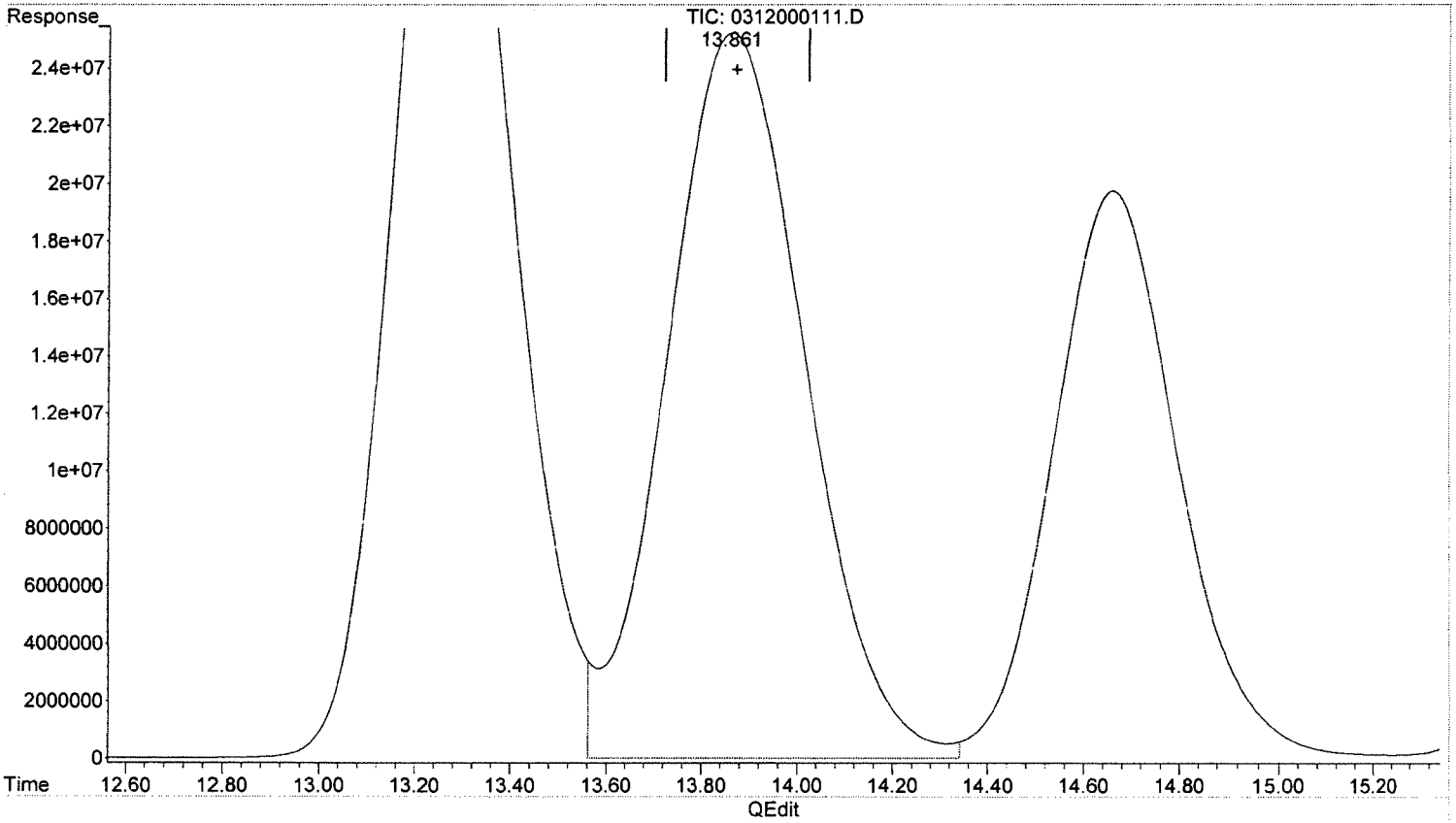
*SJ 3-17-15*  
*BL*

*mjl 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000111.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:20 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.861min 10415.623 ug/L  
response 505504390

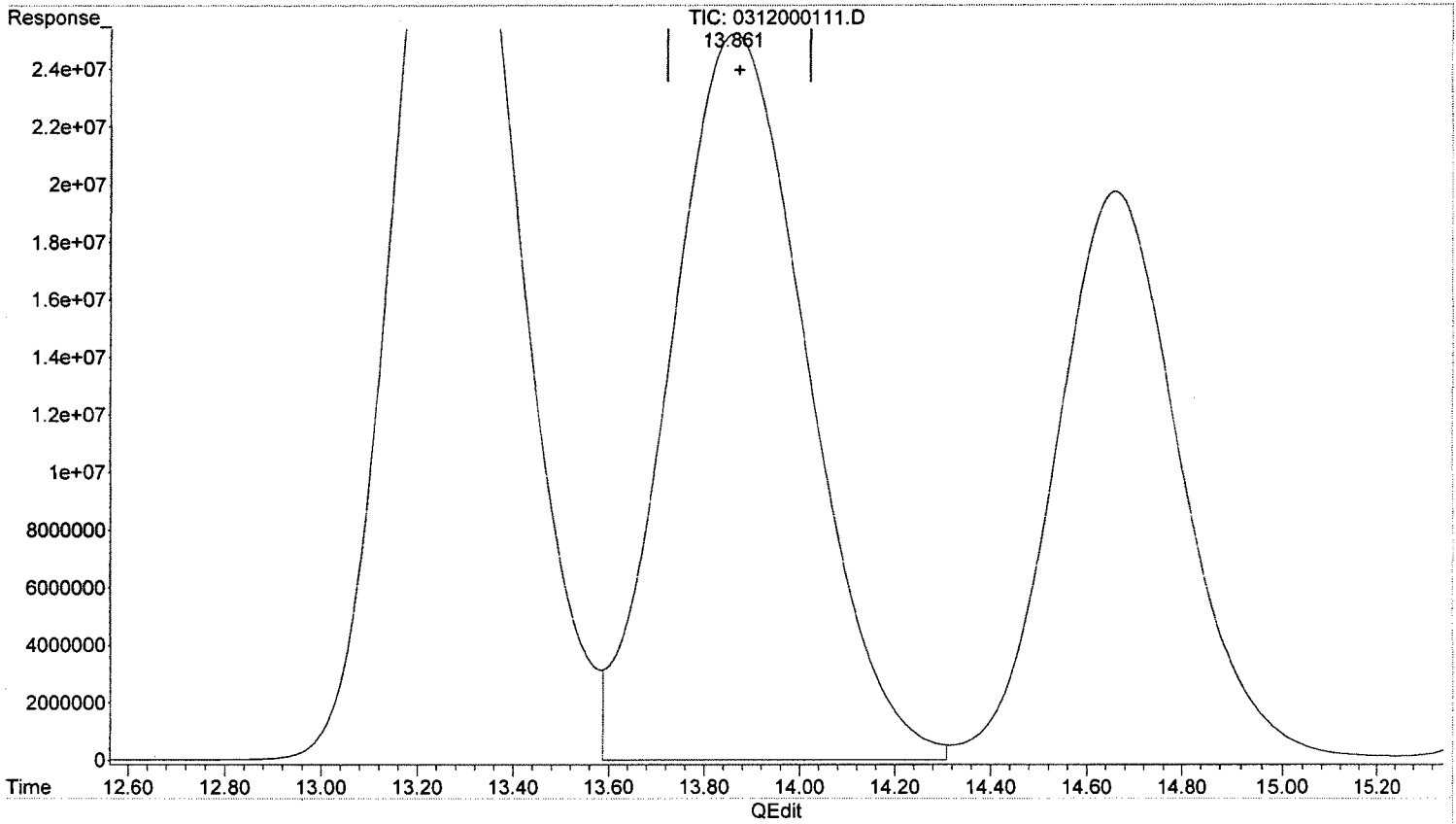
*SJ 3-17-15*

*MW 3/24/15  
MW 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000111.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:20 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.861min 10303.032 ug/L m  
response 500039969

*SJ 3-17-15*  
*BL*

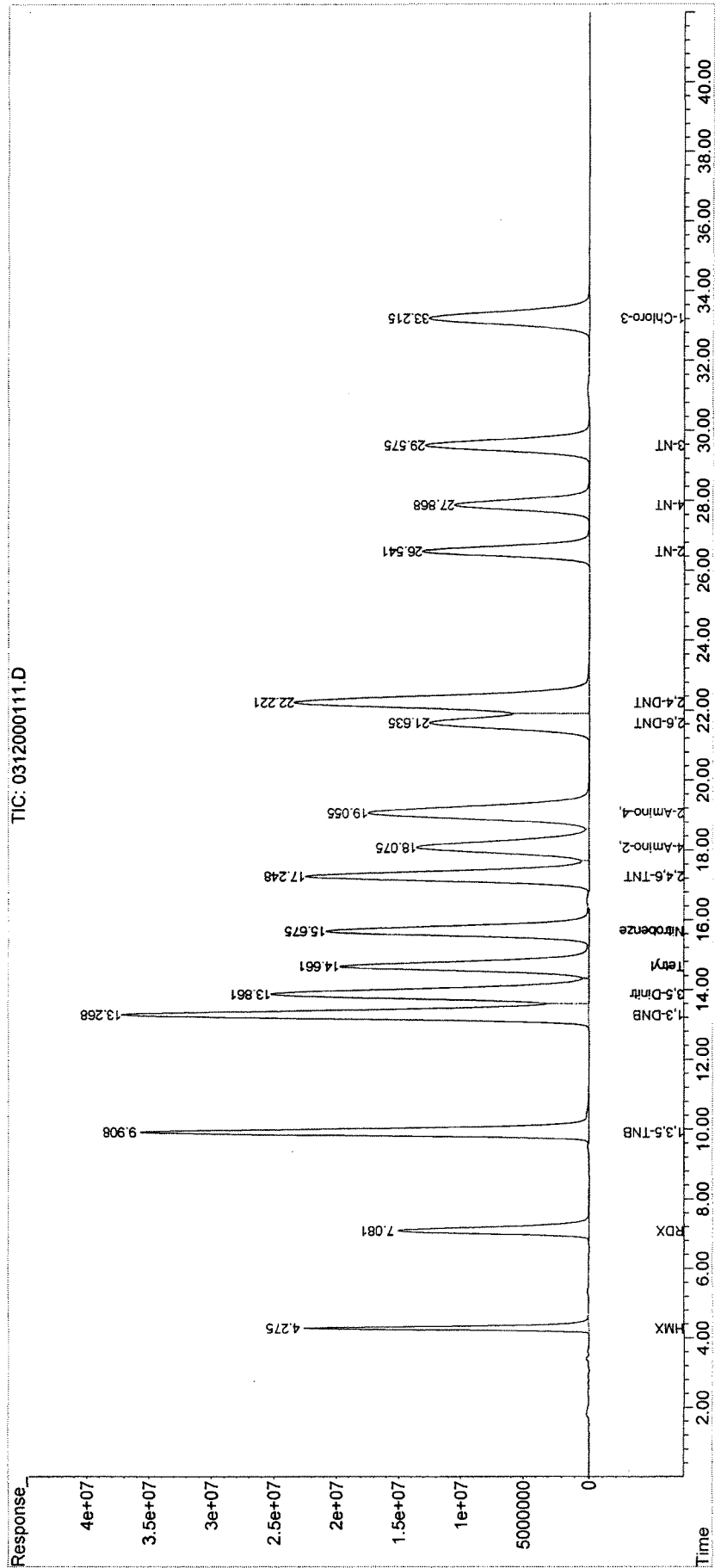
*WJ 3/24/15*



Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000111.D  
Signal(s) : DADIA.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 13:47:41 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031215XL\254\  
 Data File : 0312000112.D  
 Signal(s) : DAD1A.ch  
 Acq On : 13-Mar-2015, 01:47:26  
 Operator : SJ  
 Sample : 14-OLC-01-52J 20000PPB  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 13:50:01 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13118  
 QLast Update : Thu Mar 12 08:59:11 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.235	616504640	20472.046 ug/L
Target Compounds			
1) T HMX	4.275	303611656	19774.205 ug/L
2) T RDX	7.082	387051509	19245.137 ug/L NR
3) T 1,3,5-TNB	9.908	898585789	20242.504 ug/L
4) T 1,3-DNB	13.275	1211717121	19929.262 ug/L m
5) T 3,5-Dinitroaniline	13.868	956856126	19715.462 ug/L m
6) T Tetryl	14.668	679291345	20868.057 ug/L
7) T Nitrobenzene	15.675	752890353	20308.157 ug/L
8) T 2,4,6-TNT	17.262	825847208	20015.489 ug/L
9) T 4-Amino-2,6-DNT	18.088	596648302	20224.866 ug/L
10) T 2-Amino-4,6-DNT	19.062	818651264	20389.440 ug/L
11) T 2,6-DNT	21.648	549547304	18844.410 ug/L
12) T 2,4-DNT	22.235	1116948907	20556.752 ug/L
13) T 2-NT	26.555	490270816	20151.056 ug/L
14) T 4-NT	27.882	414952987	19908.810 ug/L
15) T 3-NT	29.588	546328510	20449.105 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

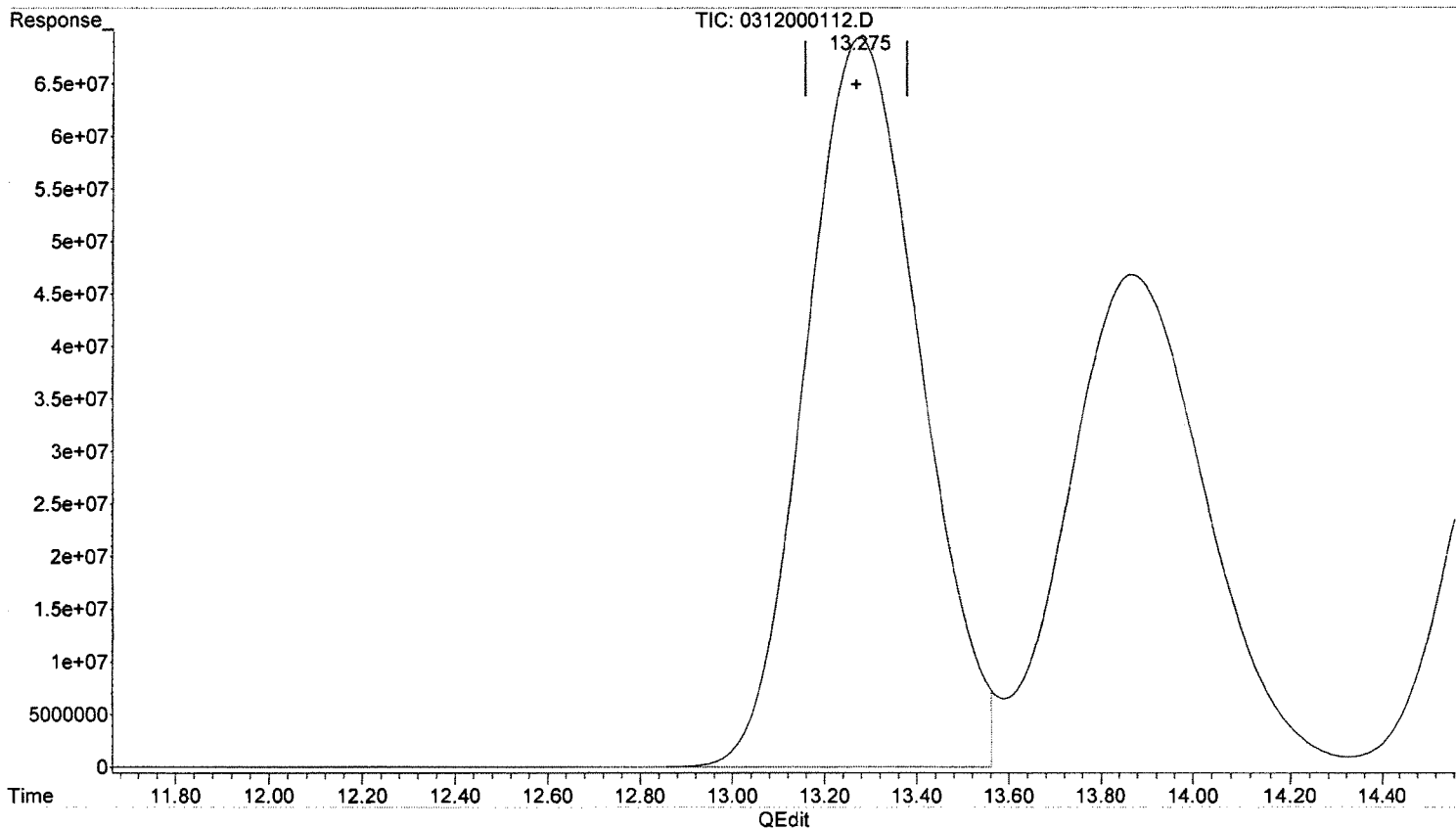
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000112.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:47:26  
Operator : SJ  
Sample : 14-OLC-01-52J 20000PPB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:22 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.275min 19648.668 ug/L  
response 1194656761

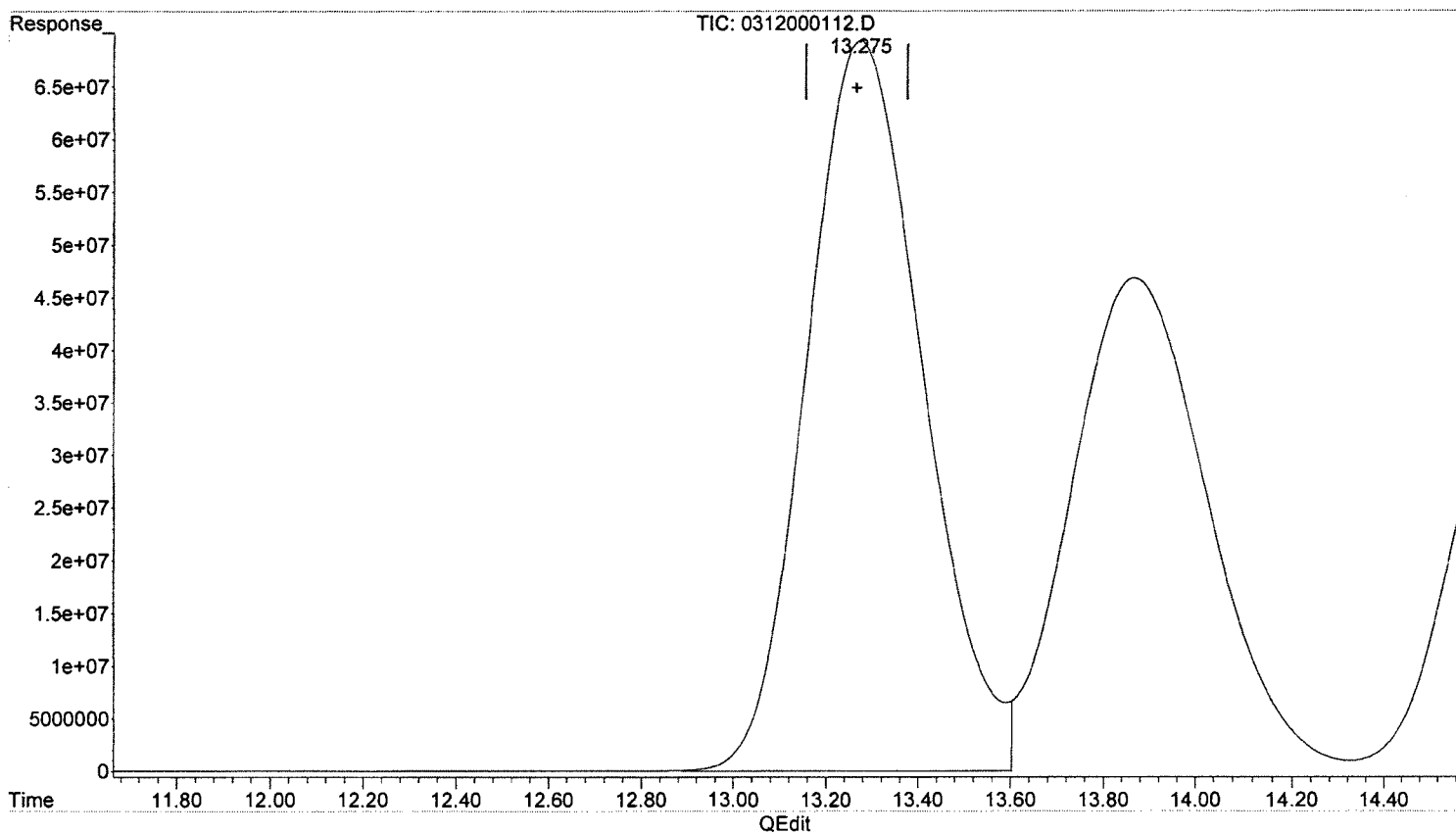
*SJ 3/17-15*

*M/13/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000112.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:47:26  
Operator : SJ  
Sample : 14-OLC-01-52J 20000PPB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:22 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.275min 19929.262 ug/L m  
response 1211717121

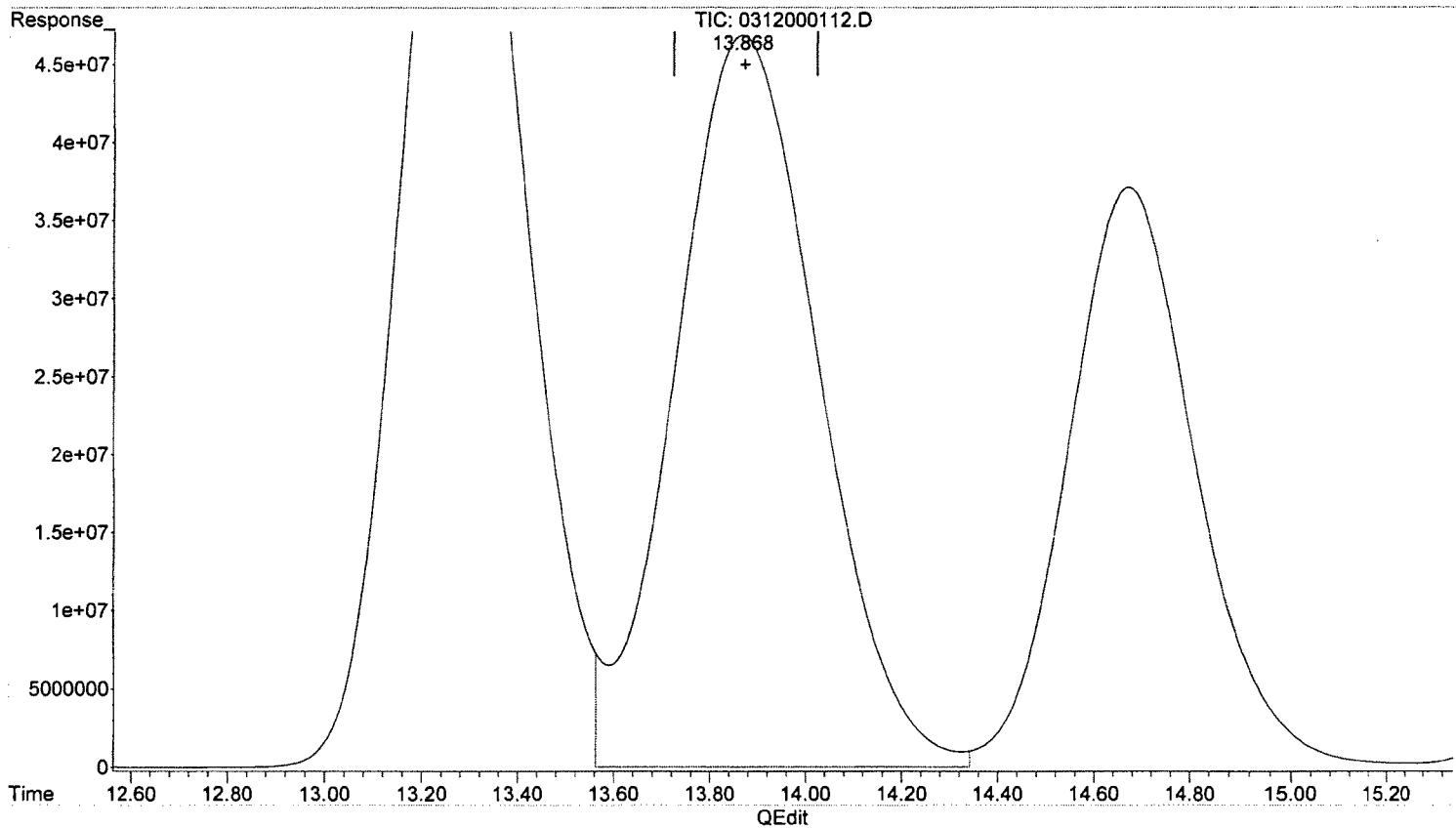
*3-17-15*  
*BL*

*off 3-17-15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000112.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:47:26  
Operator : SJ  
Sample : 14-OLC-01-52J 20000PPB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:22 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.868min 19945.911 ug/L  
response 968040575

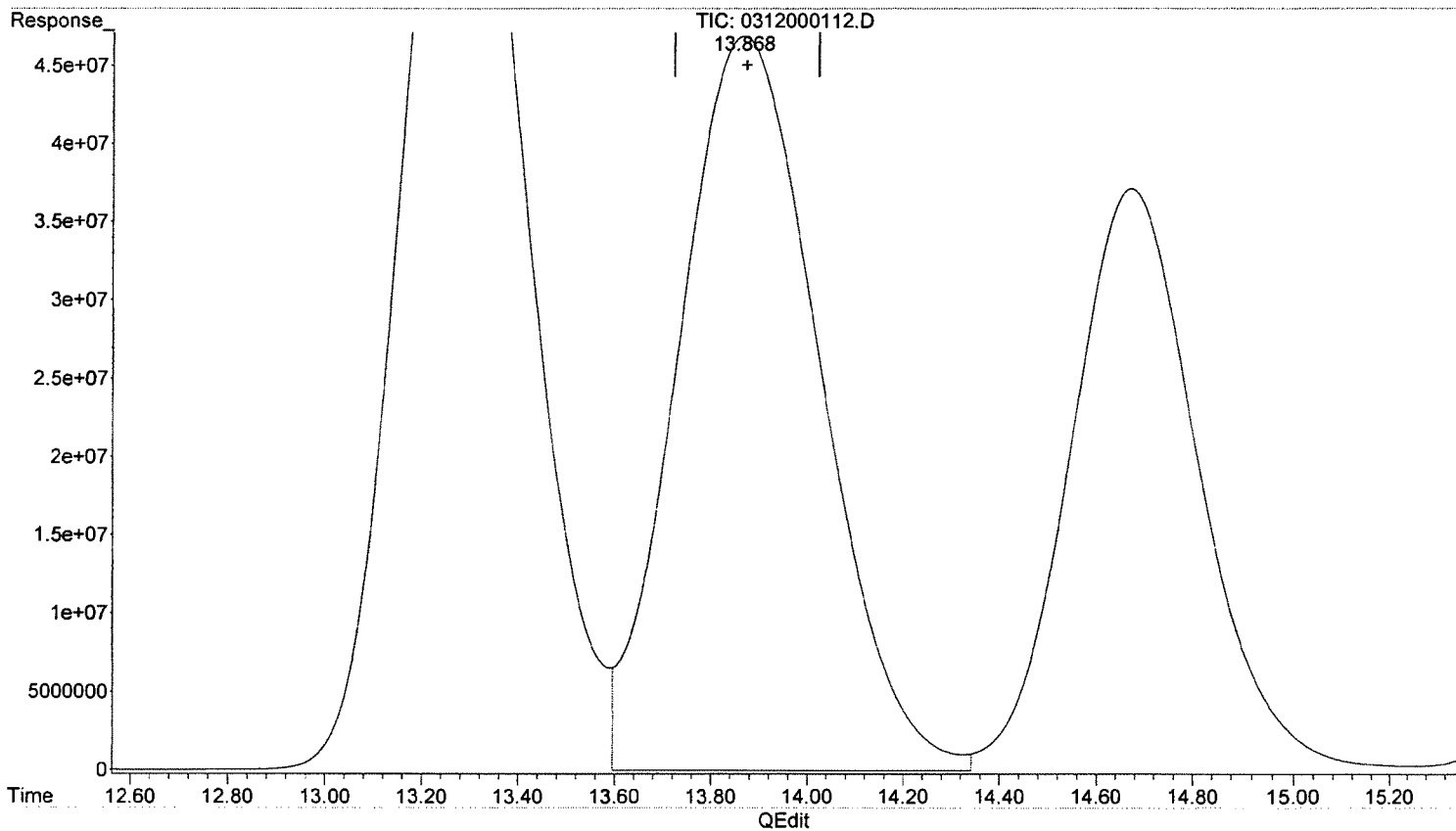
*SJ 3-17-15*

*WJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000112.D  
Signal(s) : DAD1A.ch  
Acq On : 13-Mar-2015, 01:47:26  
Operator : SJ  
Sample : 14-OLC-01-52J 20000PPB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 11:24:22 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.868min 19715.462 ug/L m  
response 956856126

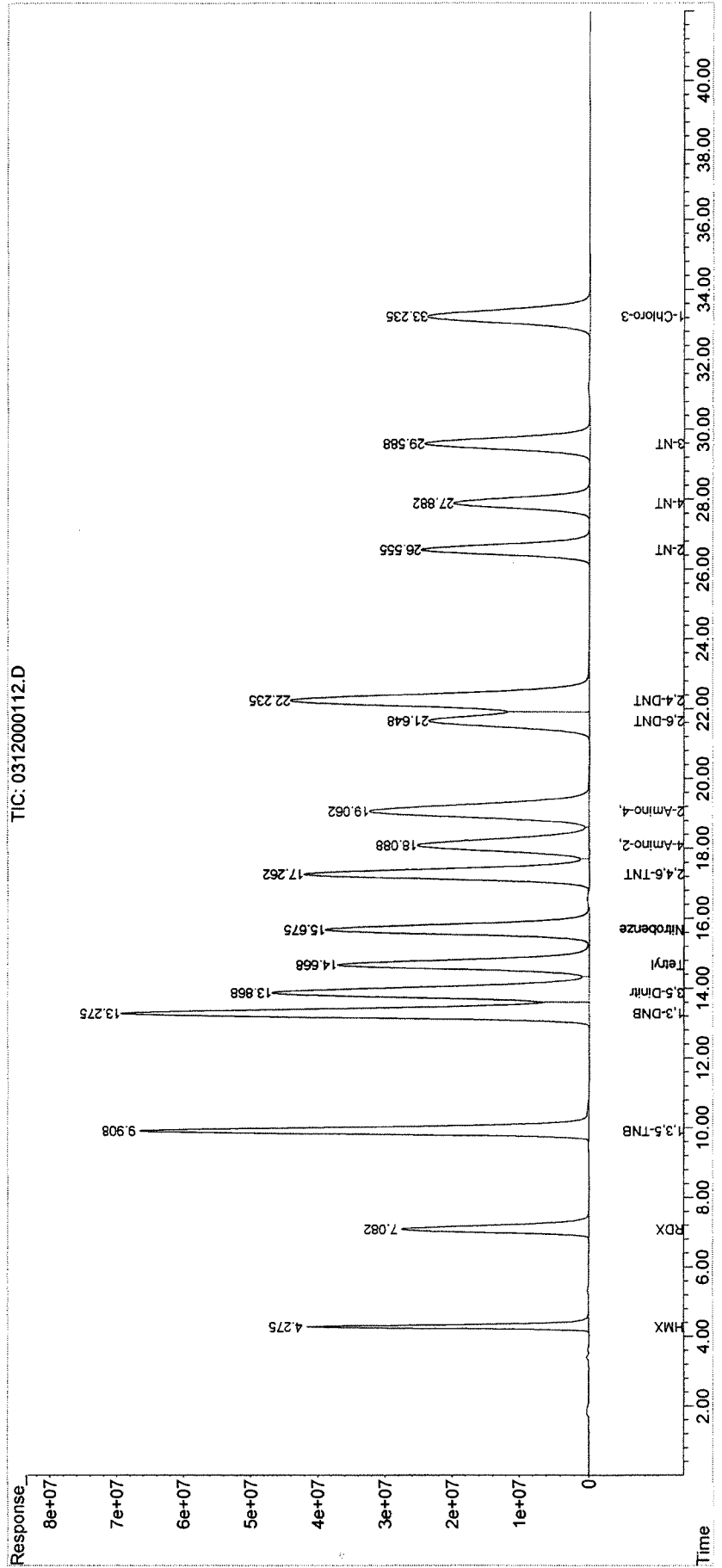
*SJ 3-17-15*  
*BL*

*apl 3/24/15*

Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000112.D  
Signal(s) : DADIA.ch  
Acq On : 13-Mar-2015, 01:47:26  
Operator : SJ  
Sample : 14-OLC-01-52J 20000PPB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 13:50:01 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Thu Mar 12 08:59:11 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



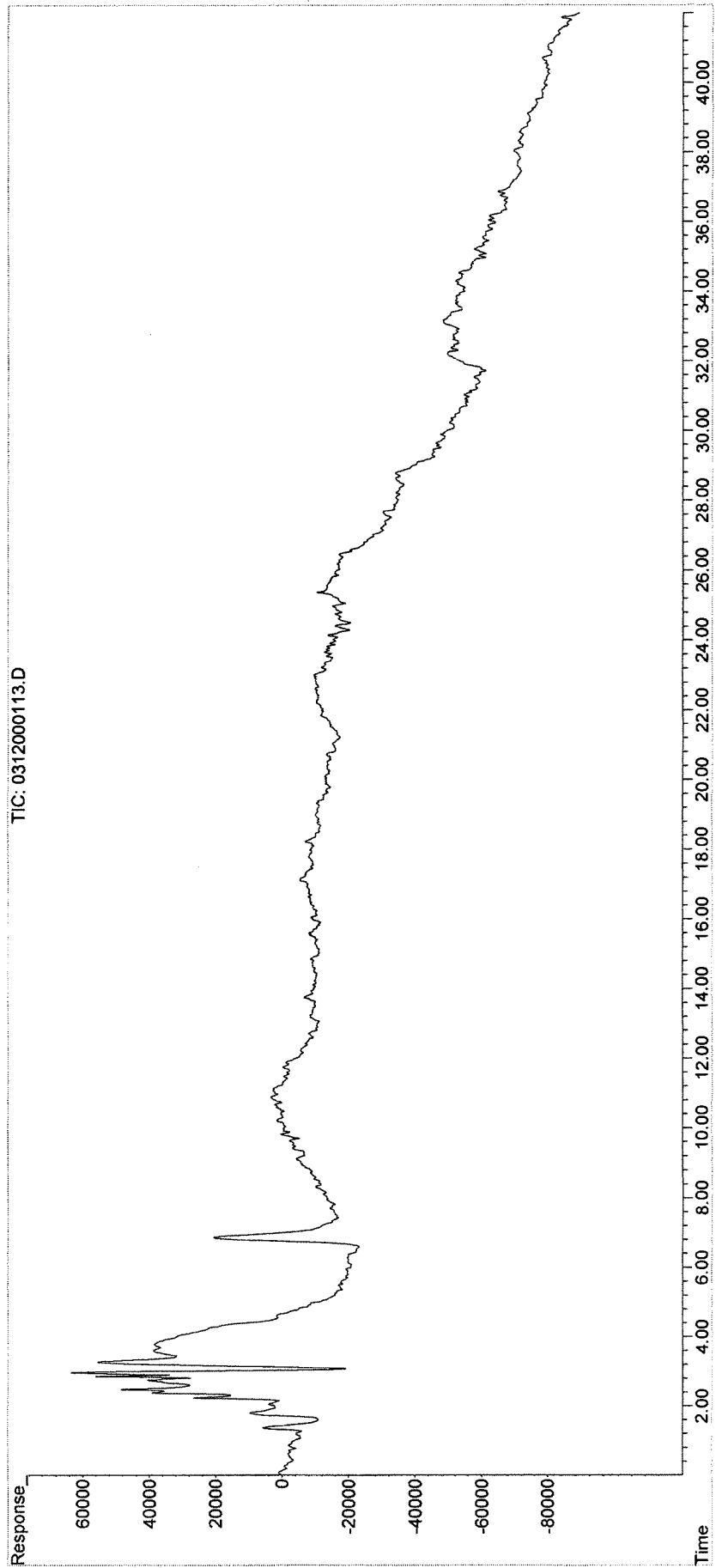




Data Path : J:\LC10\Data\031215XL\254\  
Data File : 0312000113.D  
Signal(s) : DADIA.ch  
Acq On : 13-Mar-2015, 02:33:41  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 14:18:02 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13118  
QLast Update : Mon Mar 16 13:56:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031615XL\  
 Data File : 0316000103.D  
 Signal(s) : DAD1A.ch  
 Acq On : 16-Mar-2015, 18:27:56  
 Operator : SJ  
 Sample : IB  
 Misc :  
 ALS Vial : 71 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 17 09:58:09 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue Mar 17 09:52:45 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L d
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L d
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window

(m)=manual int.

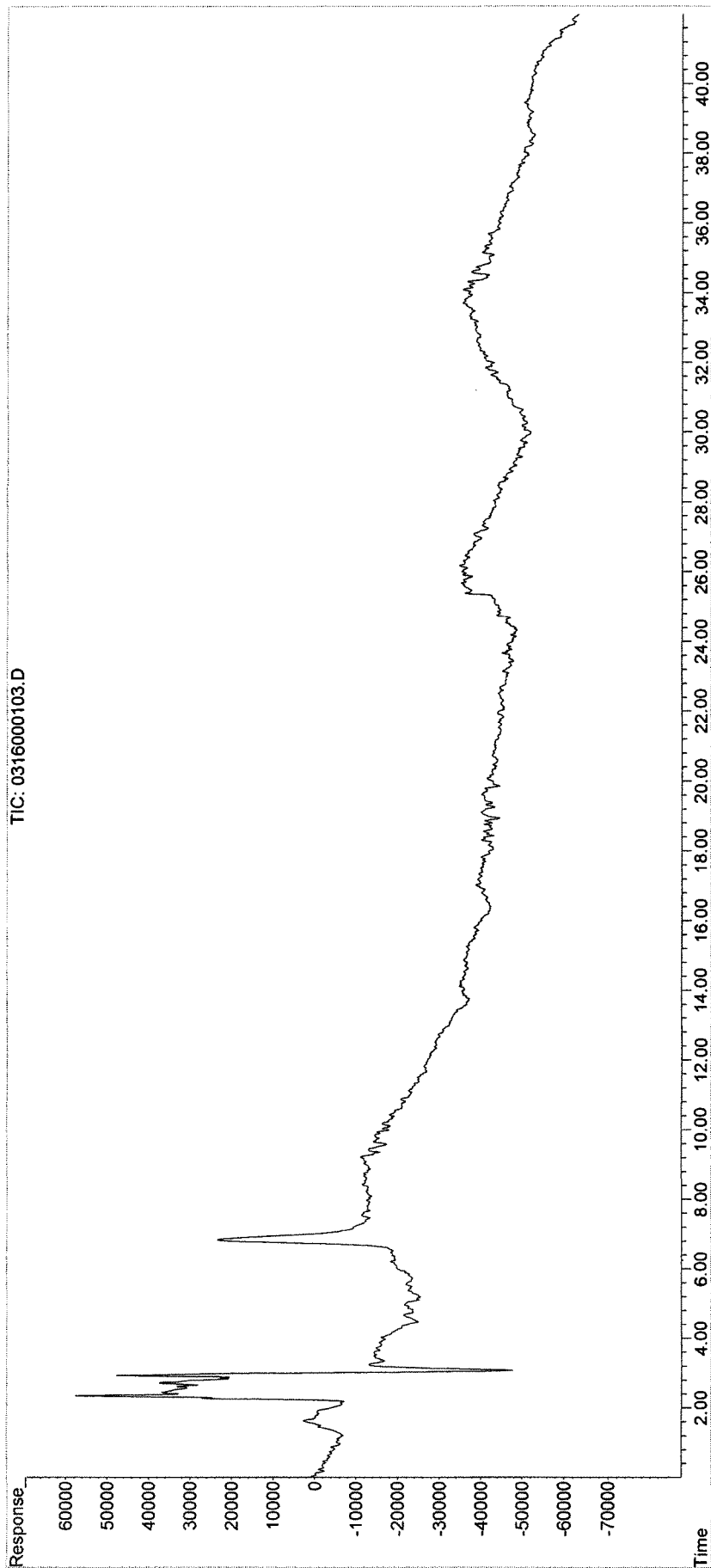
*SJ 3-17-15*

*M/S/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000103.D  
Signal(s) : DADIA.ch  
Acq On : 16-Mar-2015, 18:27:56  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 71 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 09:58:09 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CALI3891  
QLast Update : Tue Mar 17 09:52:45 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031615XL\  
 Data File : 0316000104.D  
 Signal(s) : DAD1A.ch  
 Acq On : 16-Mar-2015, 19:14:12  
 Operator : SJ  
 Sample : 14-OLC-01-52L 20PPB  
 Misc :  
 ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 17 08:53:49 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Mon Mar 16 13:56:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	32.713f	557010	17.267 ug/L m
Target Compounds			
1) T HMX	4.273	301521	19.095 ug/L m
2) T RDX	7.060	632985	28.007 ug/L m
3) T 1,3,5-TNB	9.893	872107	19.282 ug/L m
4) T 1,3-DNB	13.253	1164472	18.822 ug/L m
5) T 3,5-Dinitroaniline	13.853	927333	18.654 ug/L m
6) T Tetryl	14.607	678232	18.370 ug/L m
7) T Nitrobenzene	15.647	724064	18.092 ug/L m
8) T 2,4,6-TNT	17.207	797938	18.305 ug/L m
9) T 4-Amino-2,6-DNT	18.047	672984	21.255 ug/L m
10) T 2-Amino-4,6-DNT	19.033	860568	20.439 ug/L m
11) T 2,6-DNT	21.580f	579242	20.256 ug/L m
12) T 2,4-DNT	22.180	1123968	19.925 ug/L m
13) T 2-NT	26.480	528281	20.905 ug/L m
14) T 4-NT	27.560	402292	18.603 ug/L m
15) T 3-NT	29.033f	607369	21.743 ug/L m
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

*SJ 3-17-15*  
*B*  
*3-17-15*

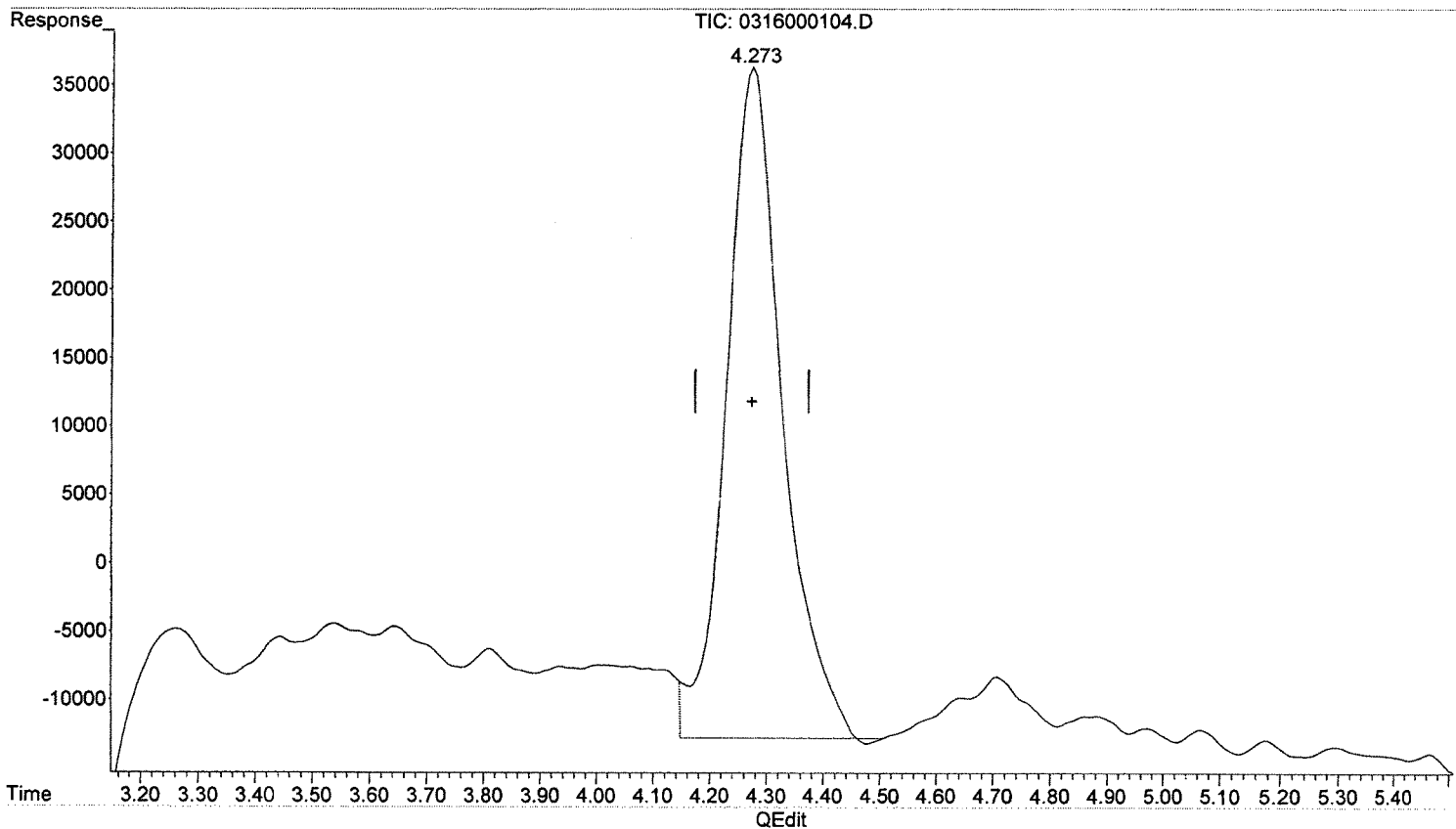
*MW 3/24/15*

*MW 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.273min 21.287 ug/L  
response 336127

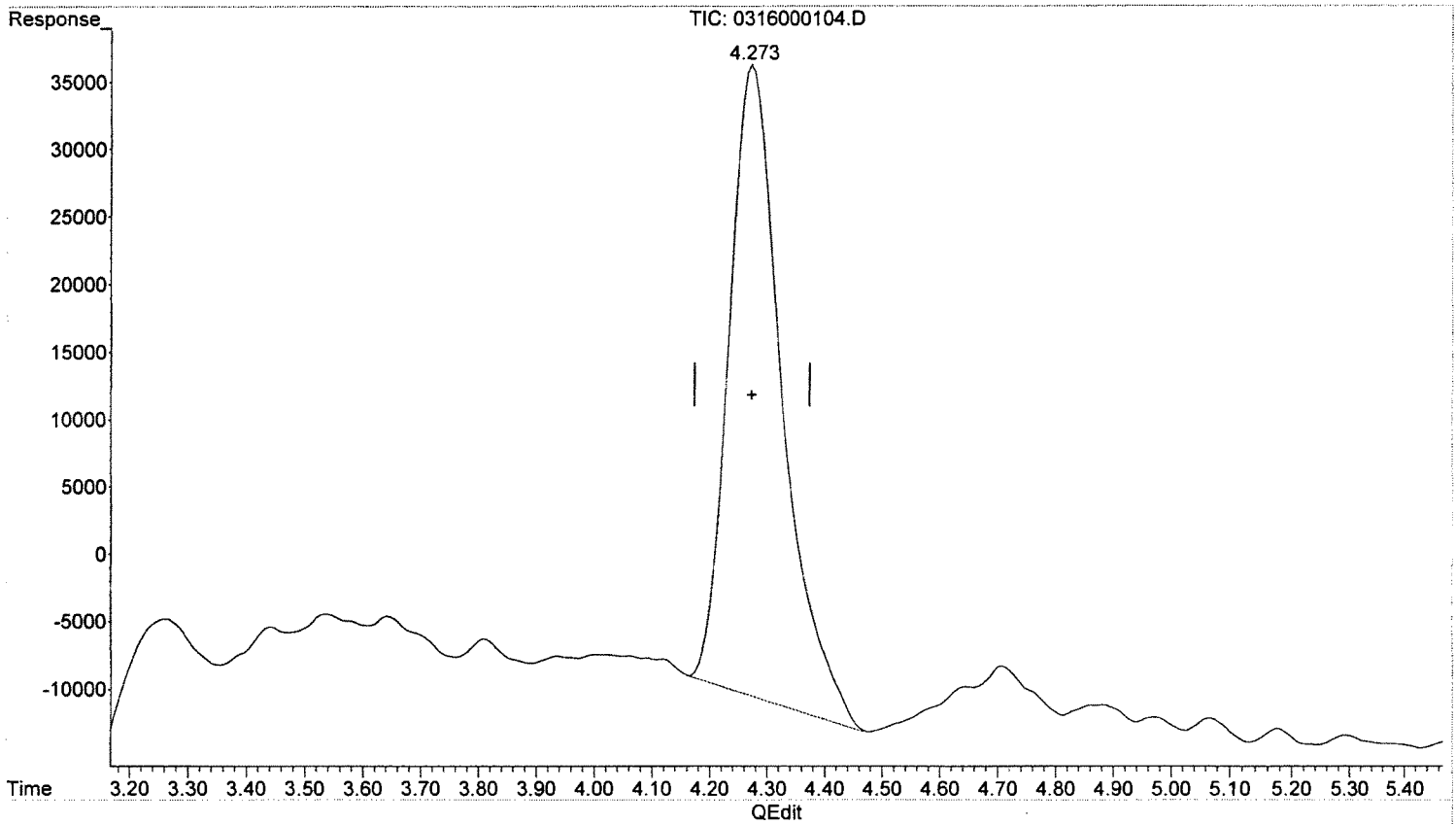
*sj3-17-15*

*4/3/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.273min 19.095 ug/L m  
response 301521

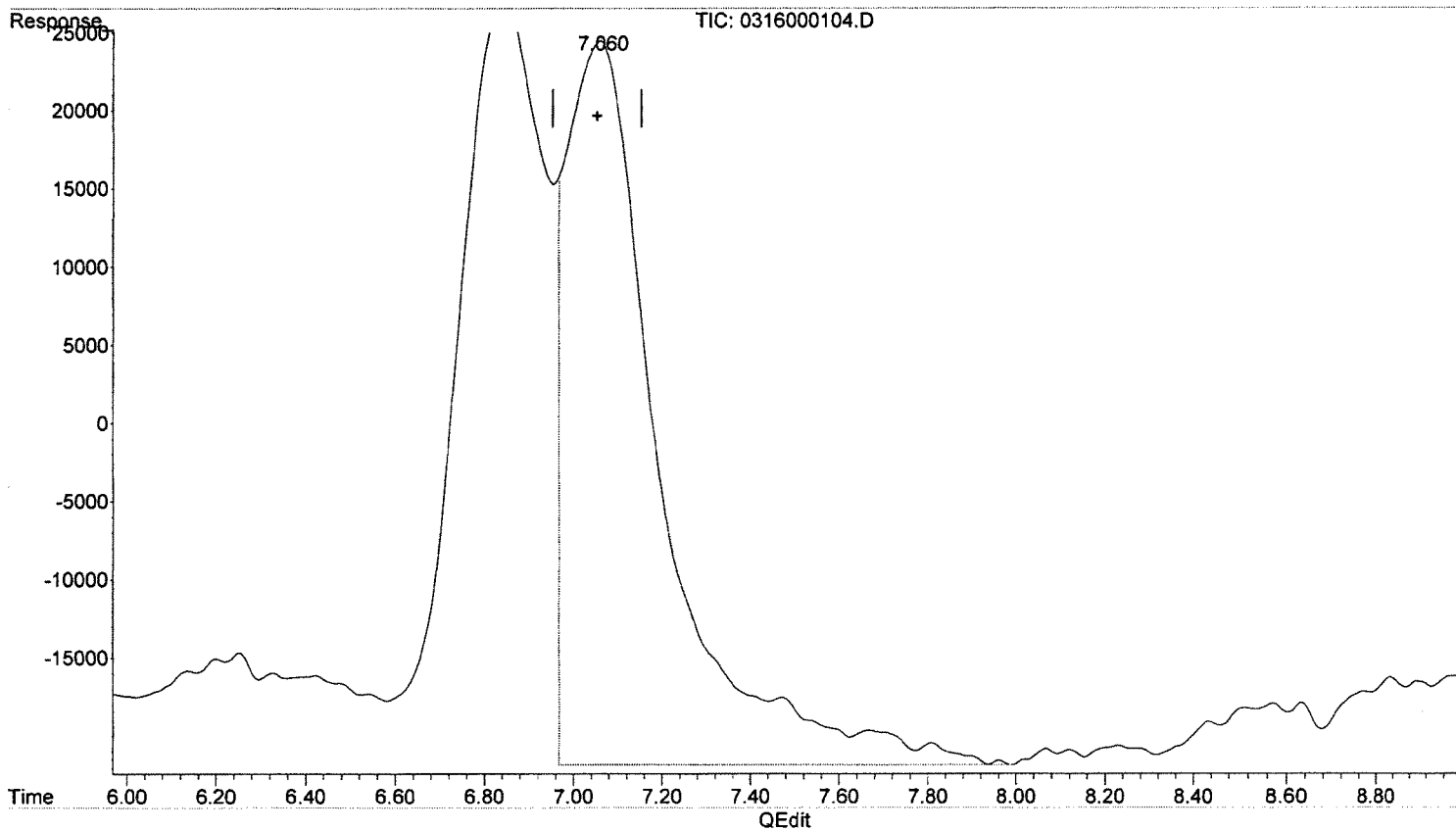
*SJ 3-17-15*  
*BL*

*ML 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.060min 30.392 ug/L  
response 686895

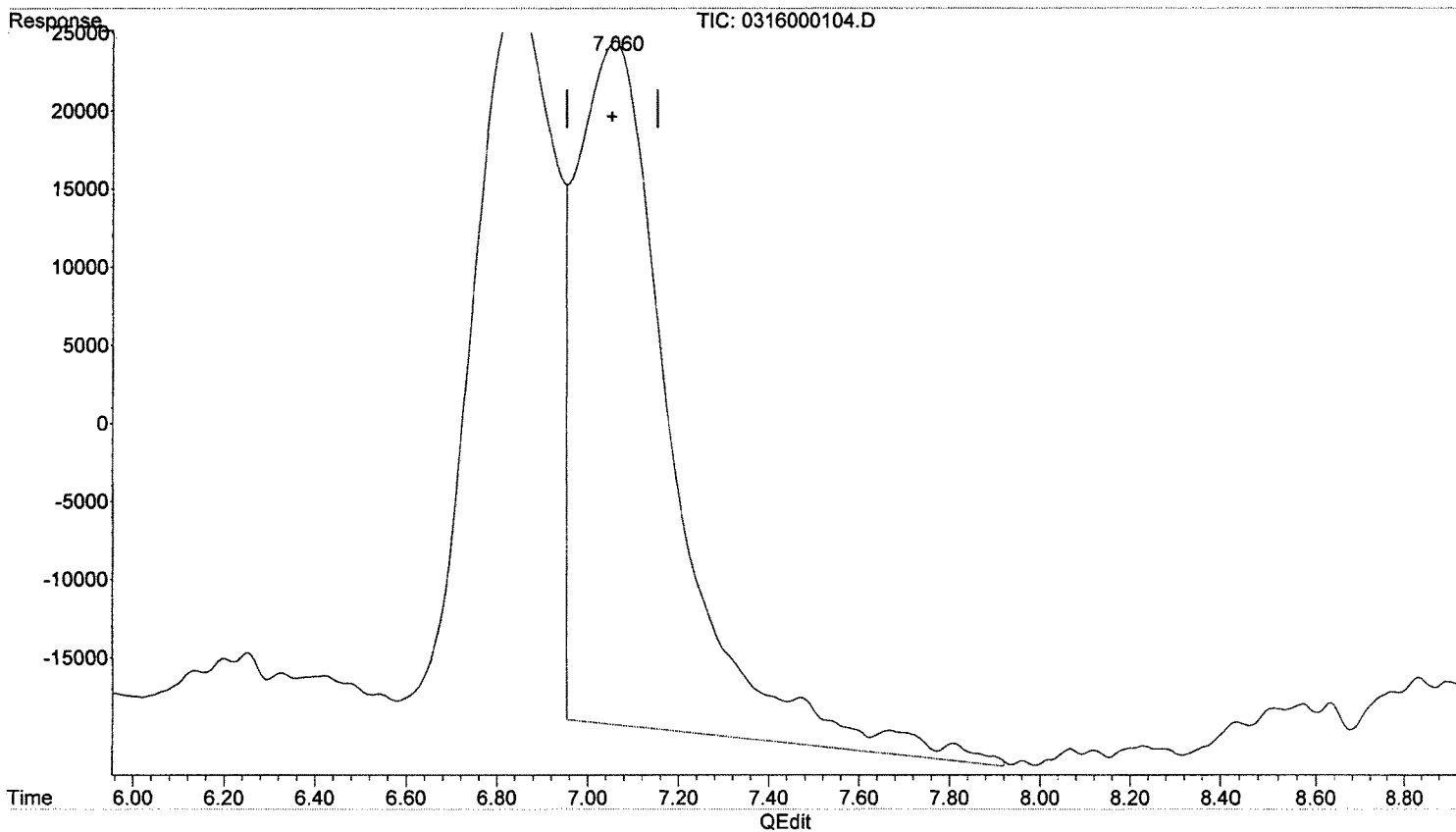
*3-17-15*

*ML 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.060min 28.007 ug/L m  
response 632985

*SJ* 3-17-15  
BL

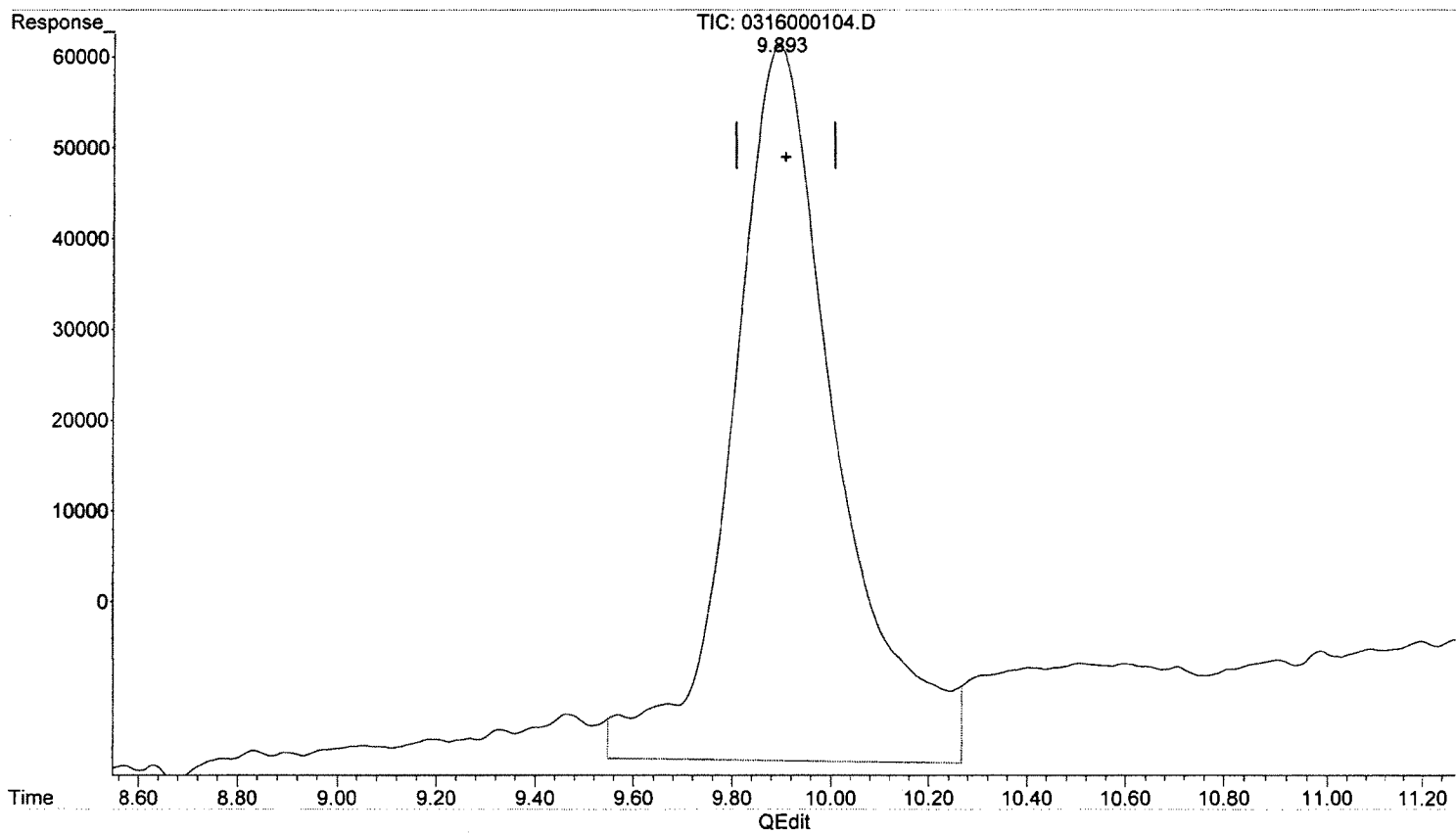
*all* 3/24/15



Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.893min 25.541 ug/L  
response 1155146

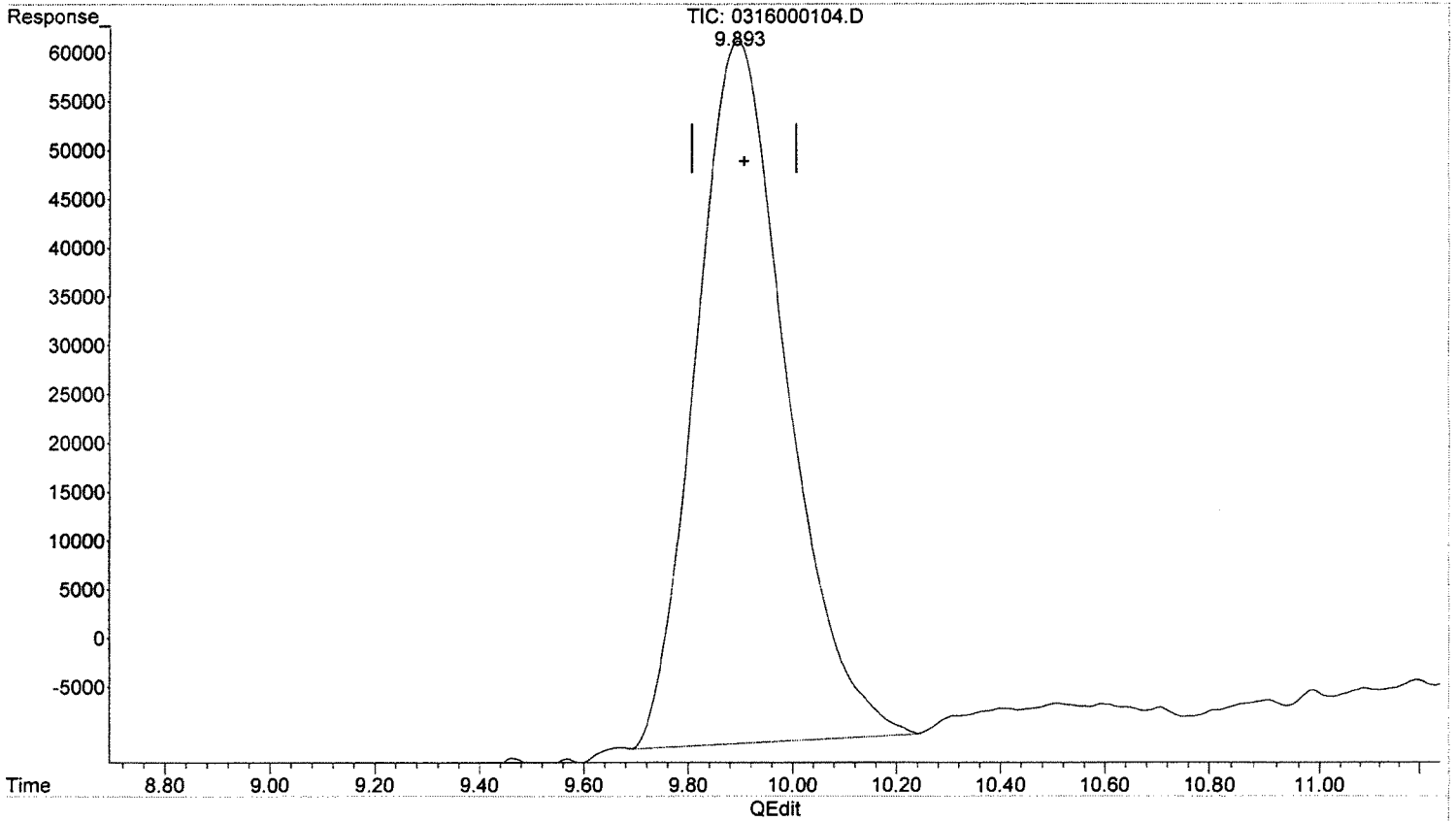
*SJ 3-17-15*

*3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.893min 19.282 ug/L m  
response 872107

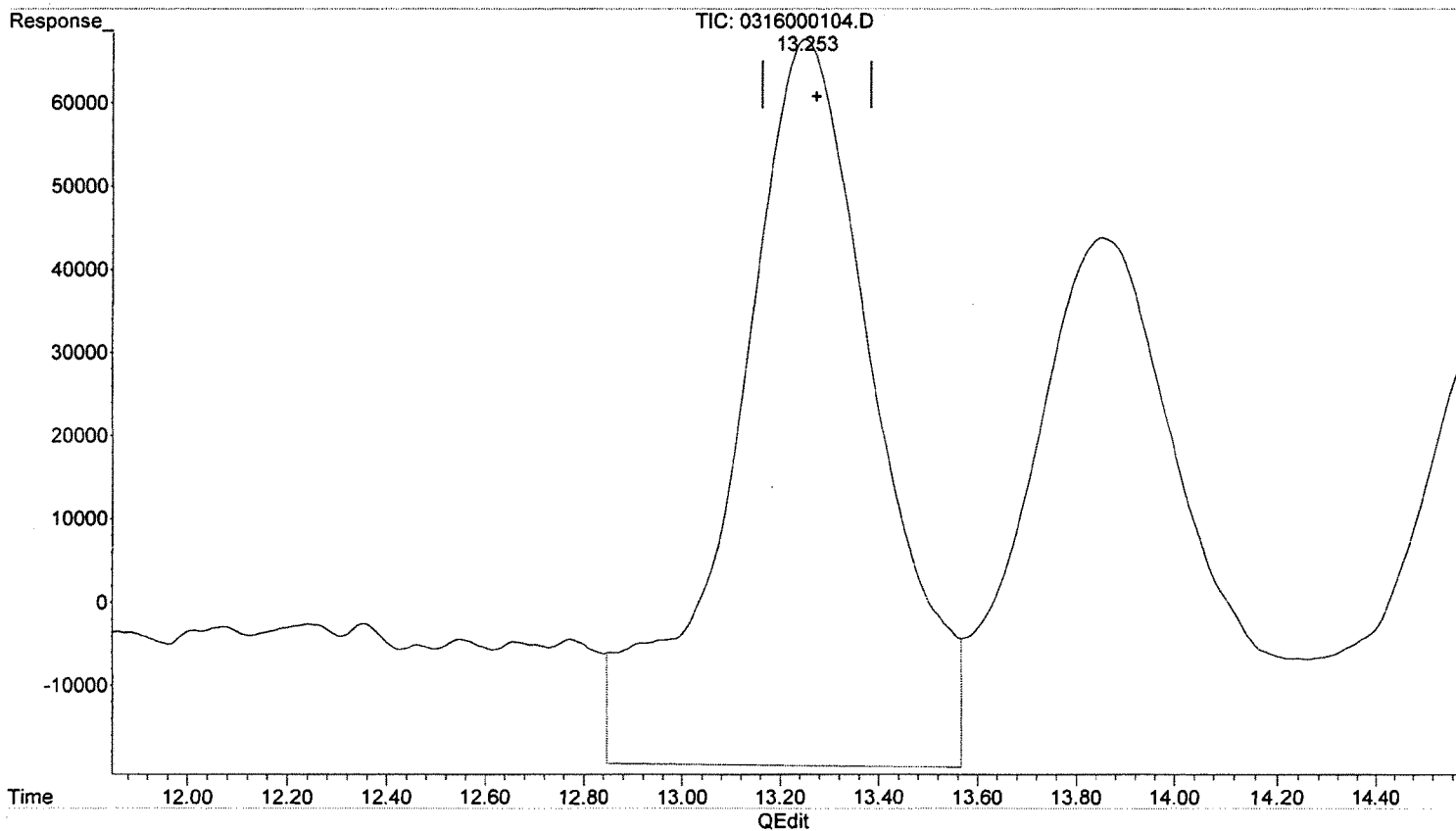
*3-17-15*  
*BL*

*3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.253min 28.020 ug/L  
response 1733568

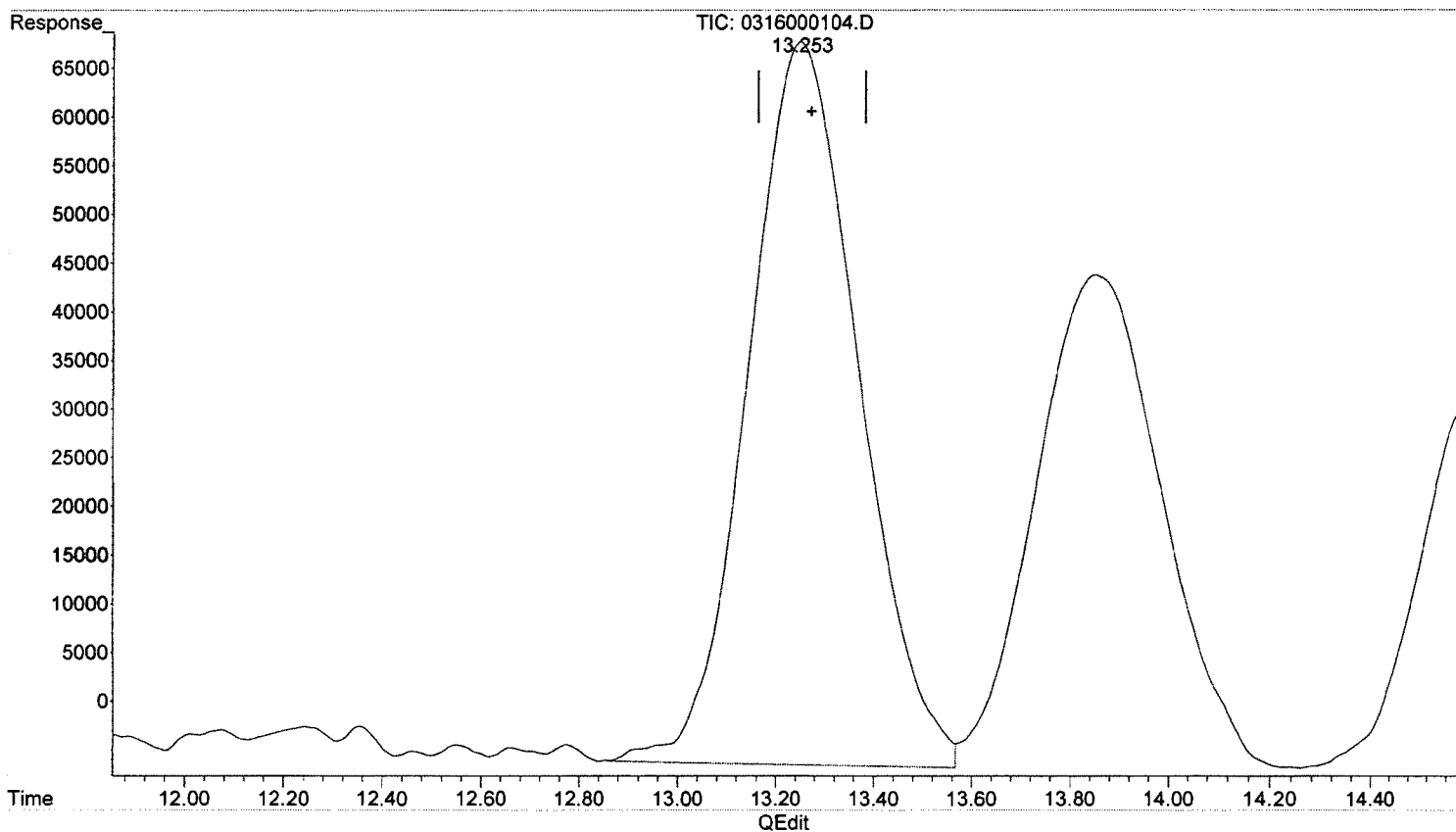
*SJ 3-17-15*

*M 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.253min 18.822 ug/L m  
response 1164472

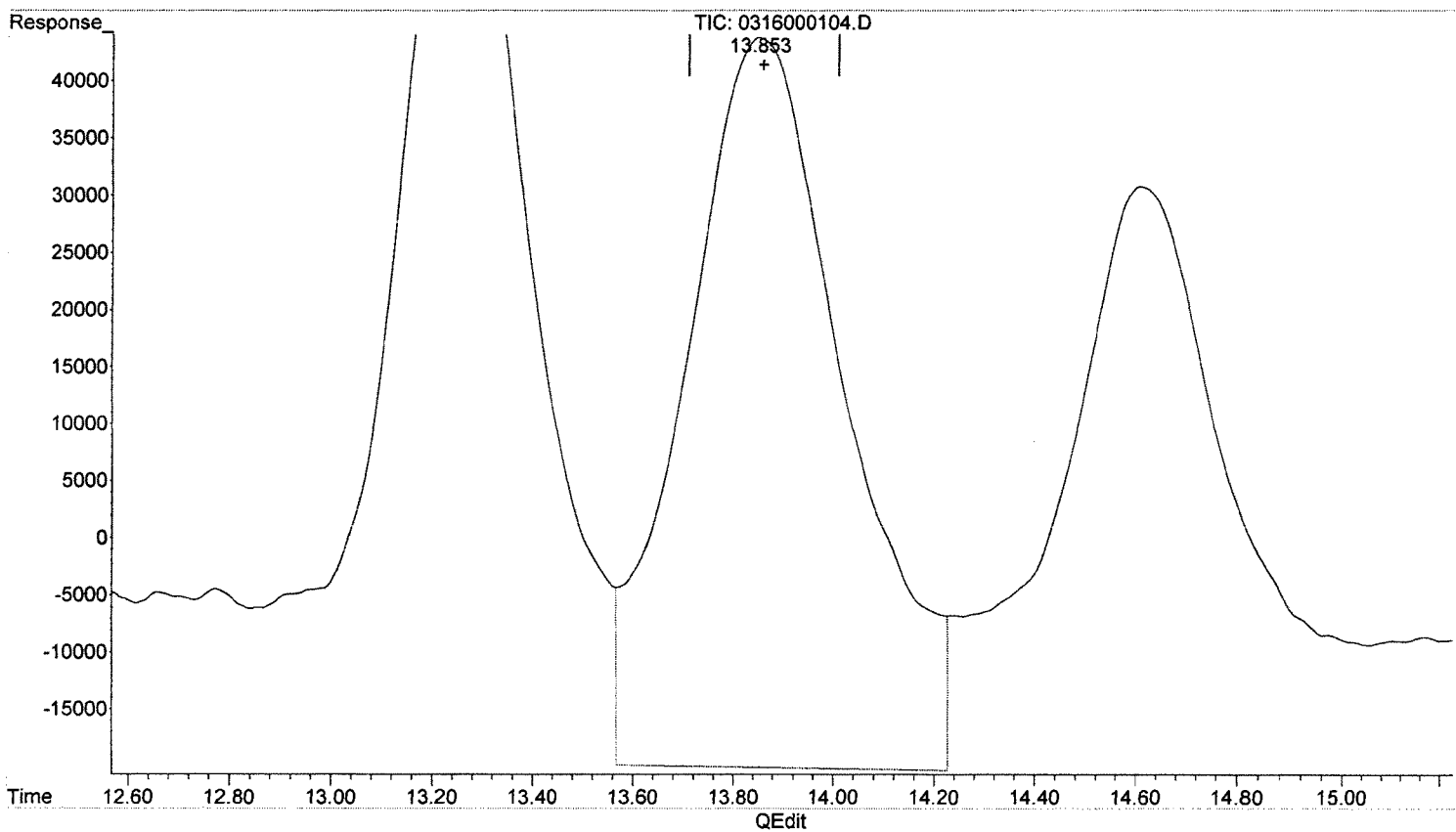
*SJ 3-17-15  
BL*

*MPL 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.853min 28.641 ug/L  
response 1423853

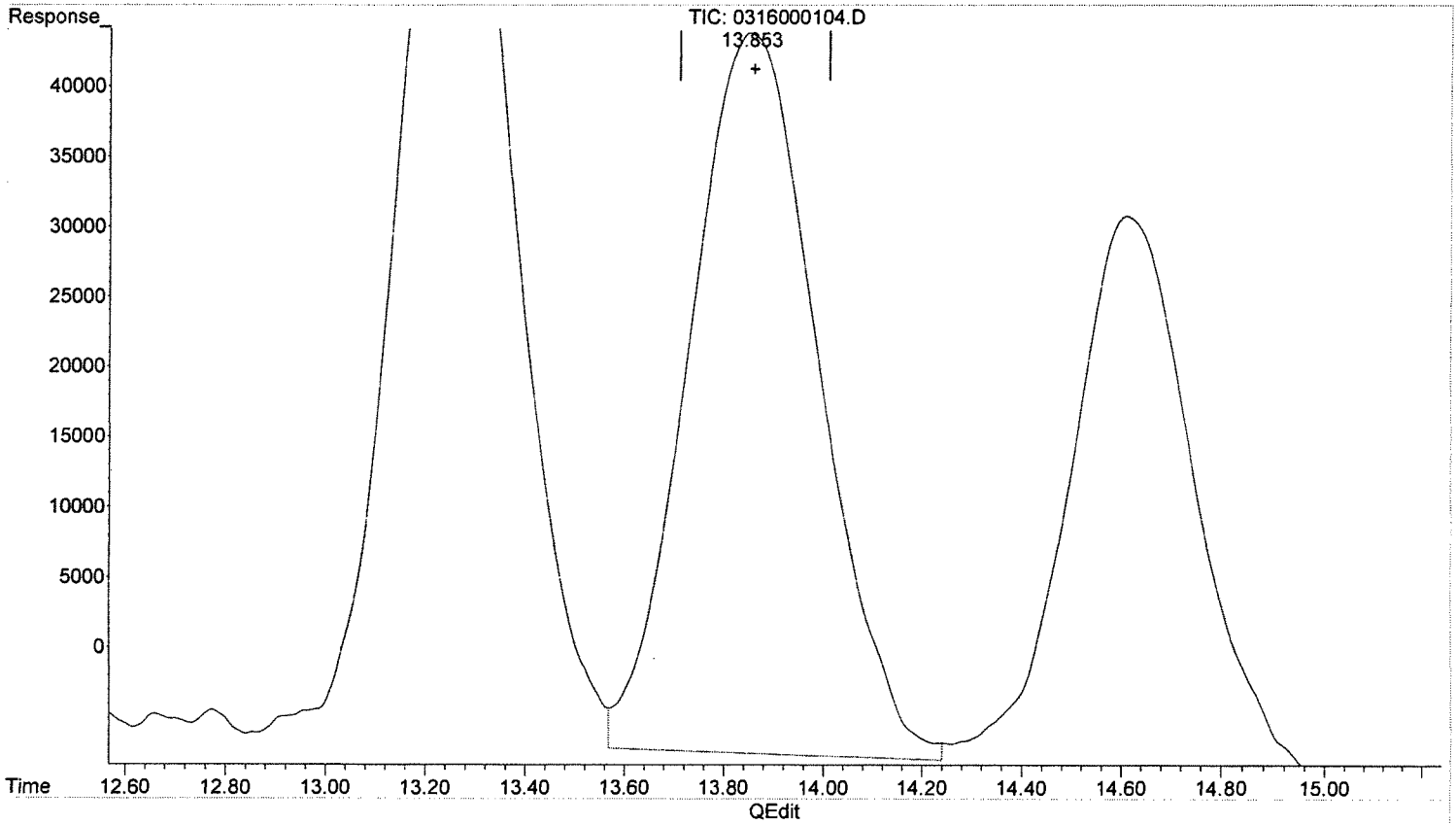
*SJ 3-17-15*

*MFL 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
13.853min 18.654 ug/L m  
response 927333

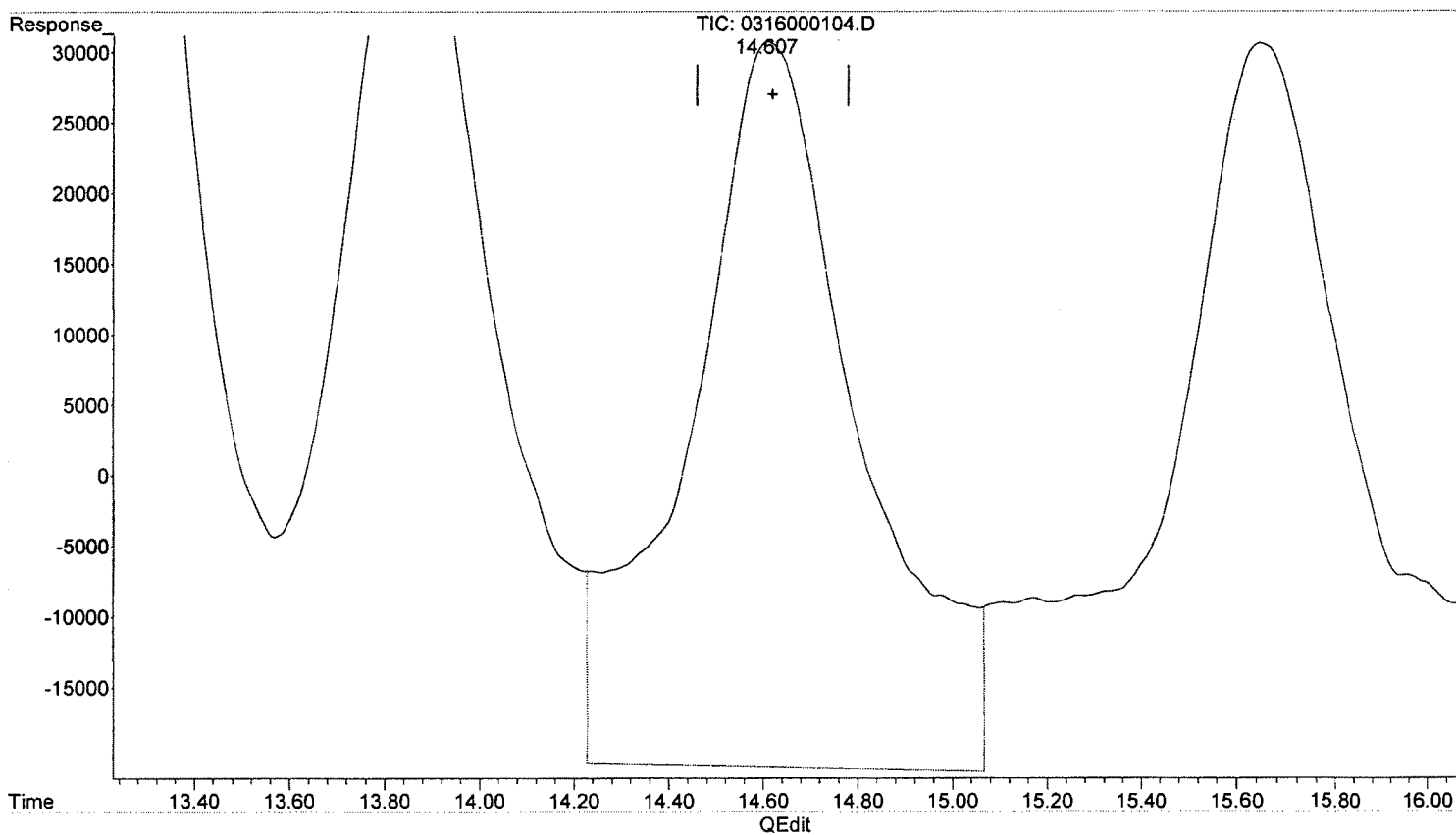
*SJ 3-17-15  
BL*

*MJL 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.607min 34.828 ug/L  
response 1285861

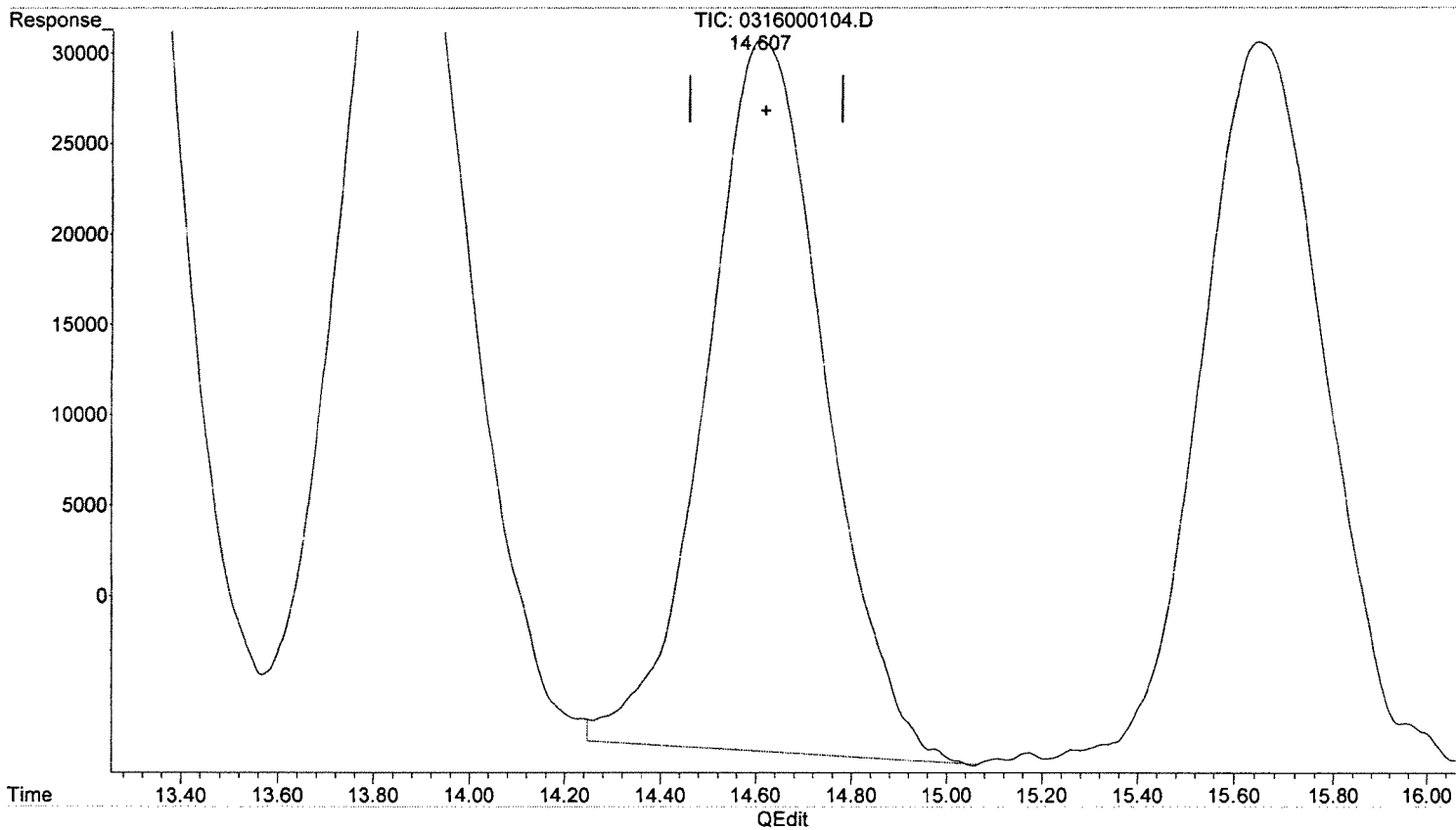
*SJ 3-17-15*

*MJL 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.607min 18.370 ug/L m  
response 678232

*SJ 3-17-15*  
*BL*

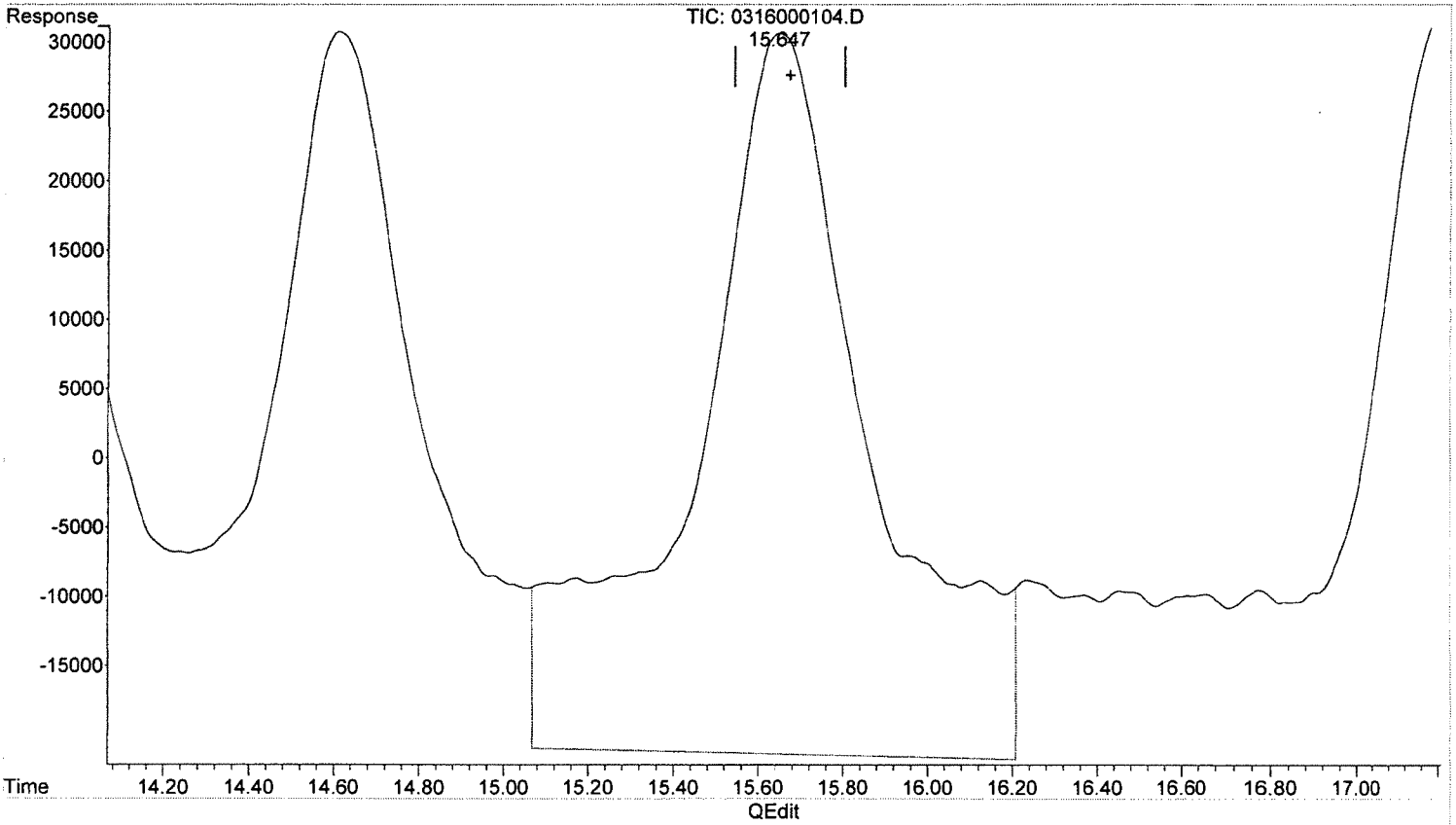
*4/31/15*



Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.647min 38.206 ug/L  
response 1529052

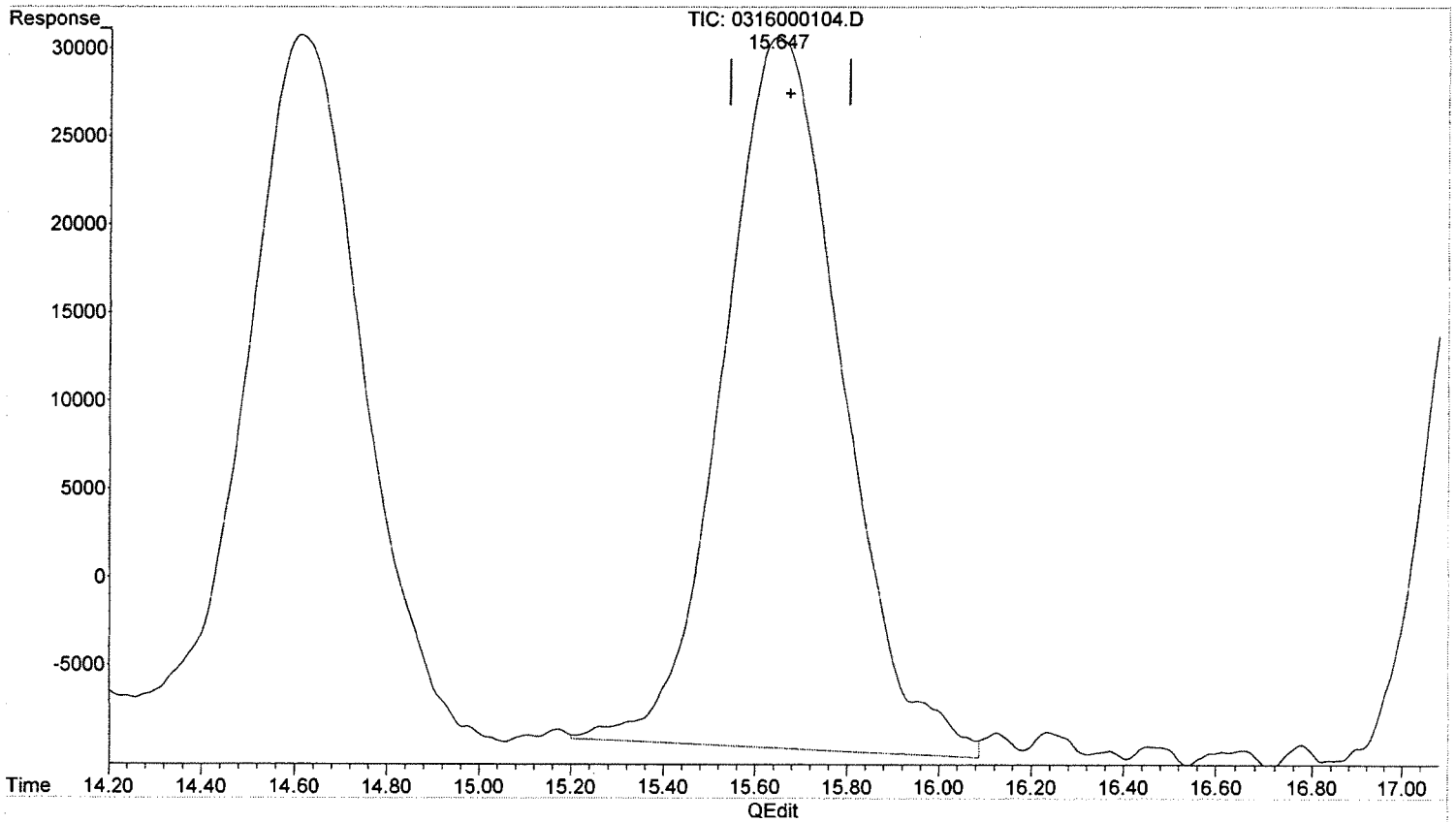
*SJ 3-17-15*

*MH 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.647min 18.092 ug/L m  
response 724064

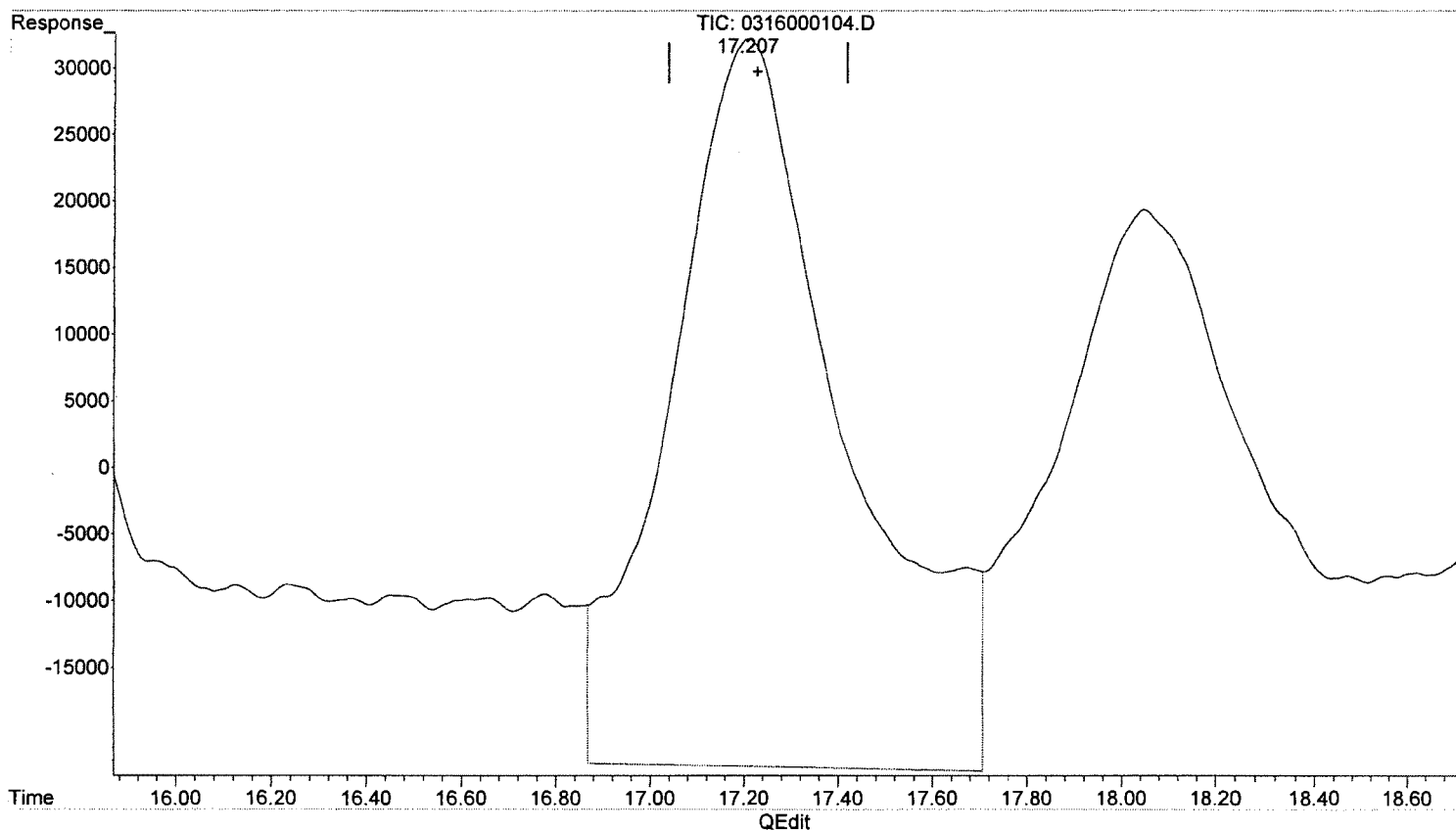
*3-17-15*  
*BL*

*3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.207min 32.437 ug/L  
response 1413970

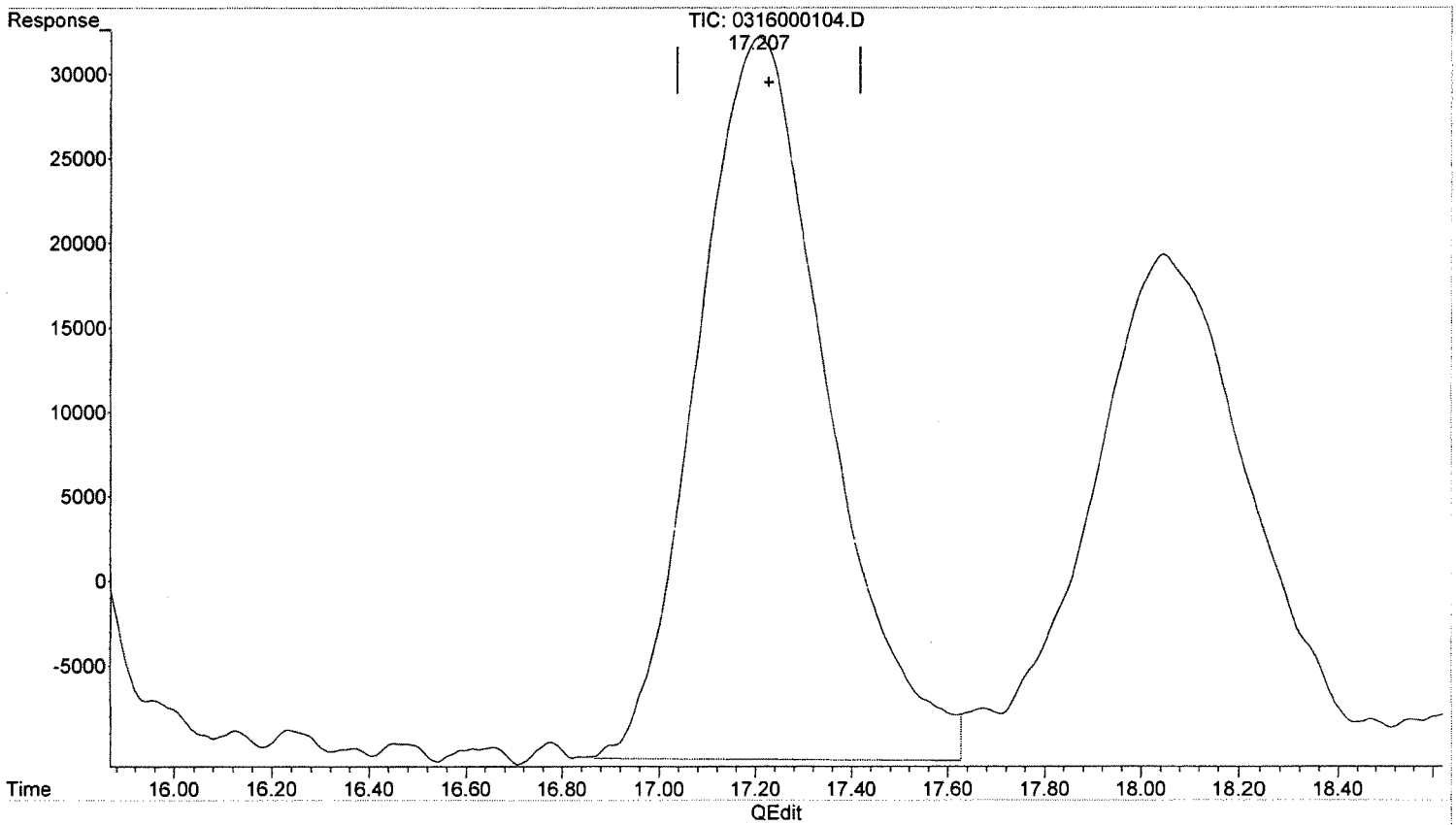
*SJ 3-17-15*

*M/23/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.207min 18.305 ug/L m  
response 797938

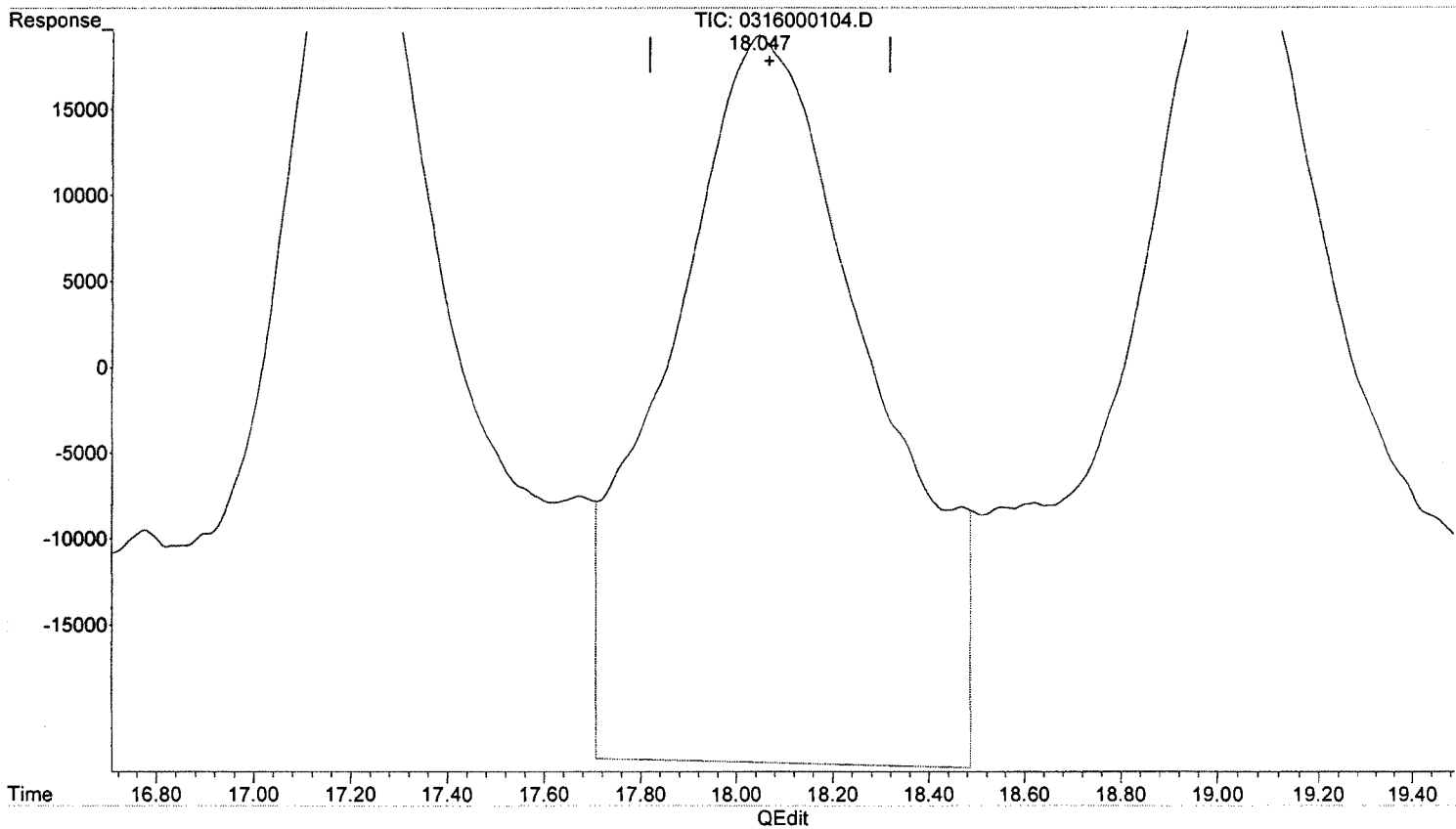
*SJ 3-17-15*  
*BL*

*WJ 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.047min 39.641 ug/L  
response 1255116

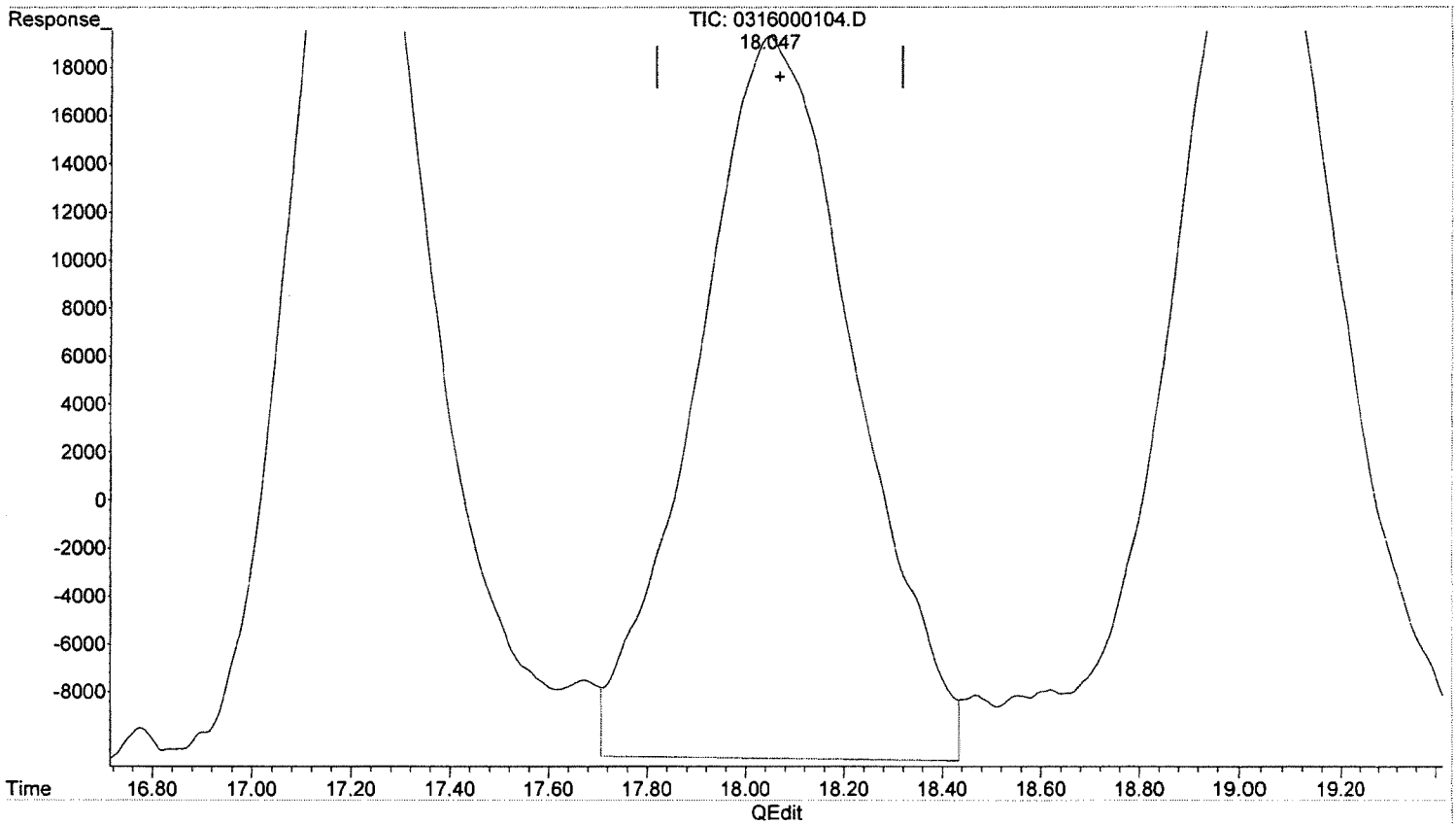
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.047min 21.255 ug/L m  
response 672984

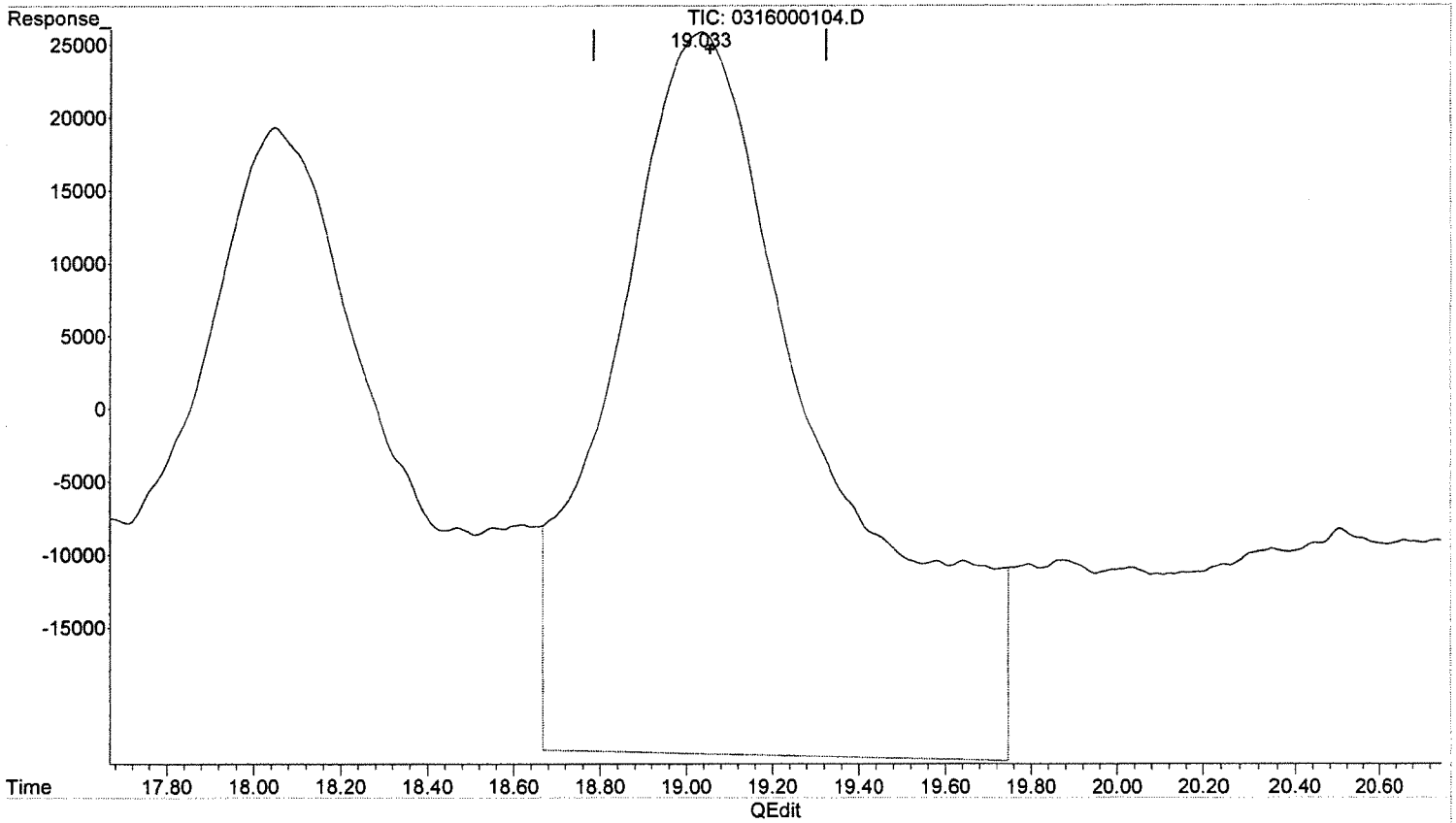
*SJ 3-17-15*  
*BL*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.033min 39.966 ug/L  
response 1682780

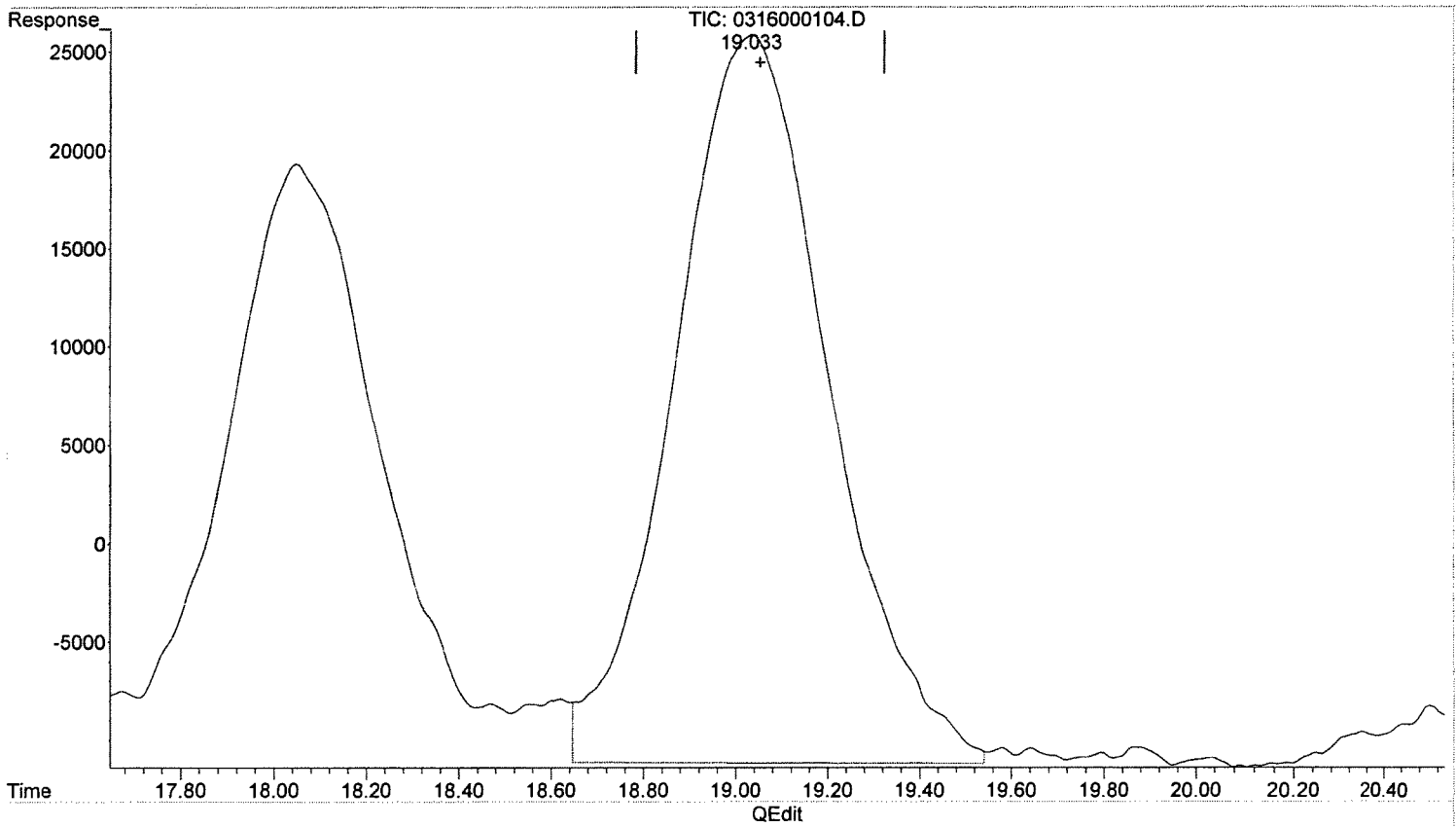
*SJ 3-17-15*

*MJL 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.033min 20.439 ug/L m  
response 860568

*SJ 3-17-15  
BL*

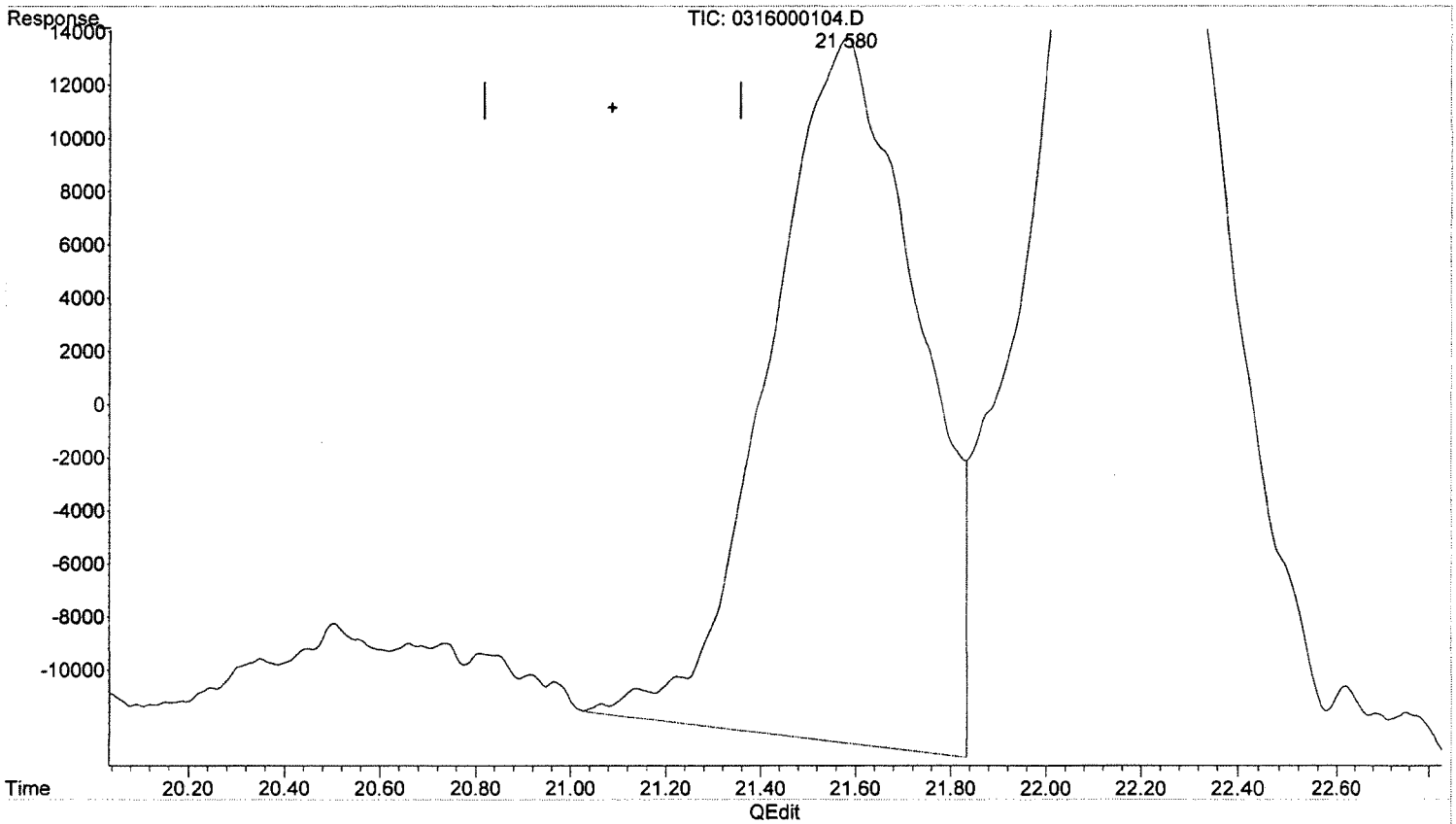
*ML 3/24/15*



Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.580min 20.256 ug/L m  
response 579242

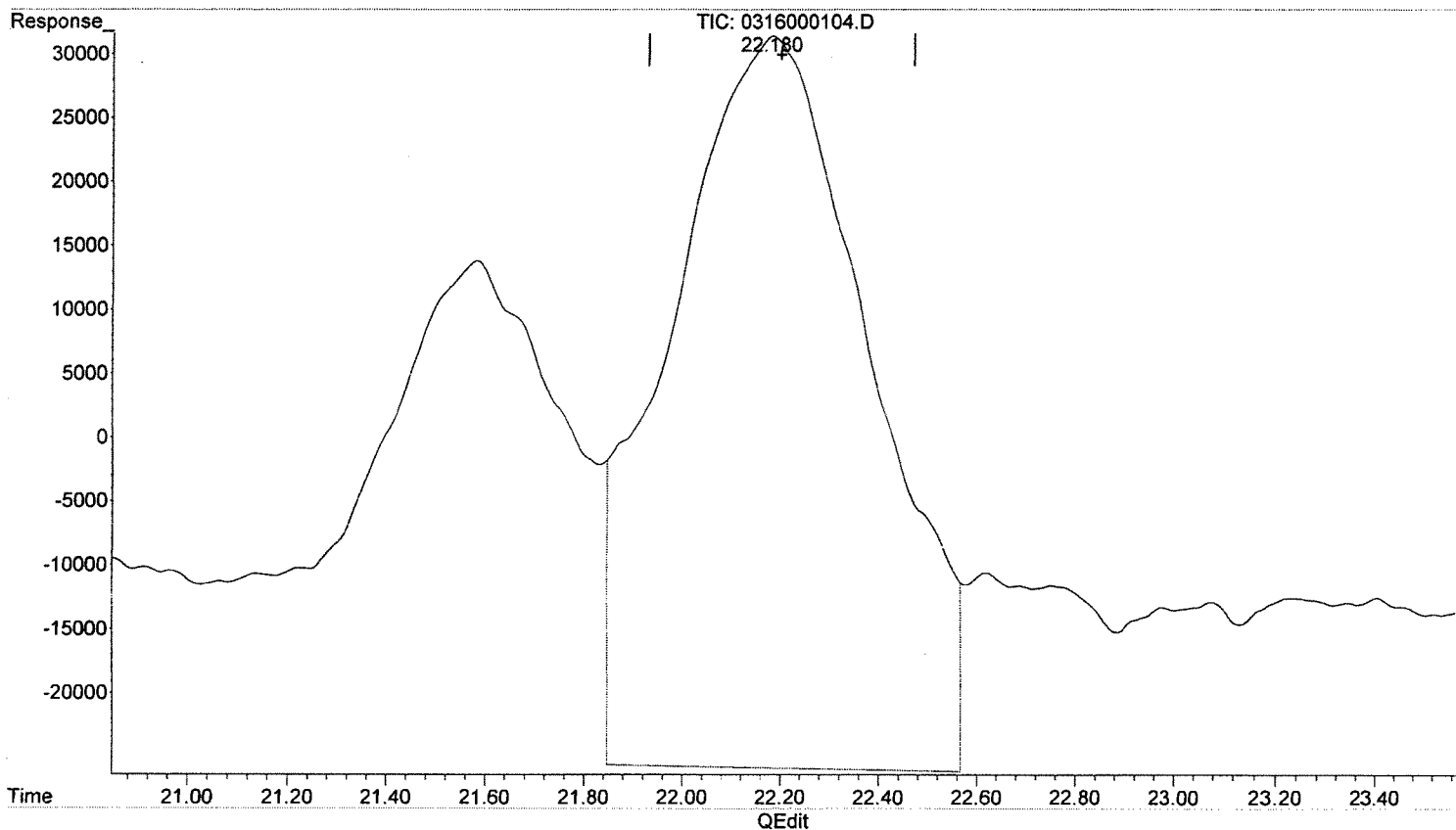
*SJ 3-17-15*  
*MP*

*MP 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.180min 28.819 ug/L  
response 1625698

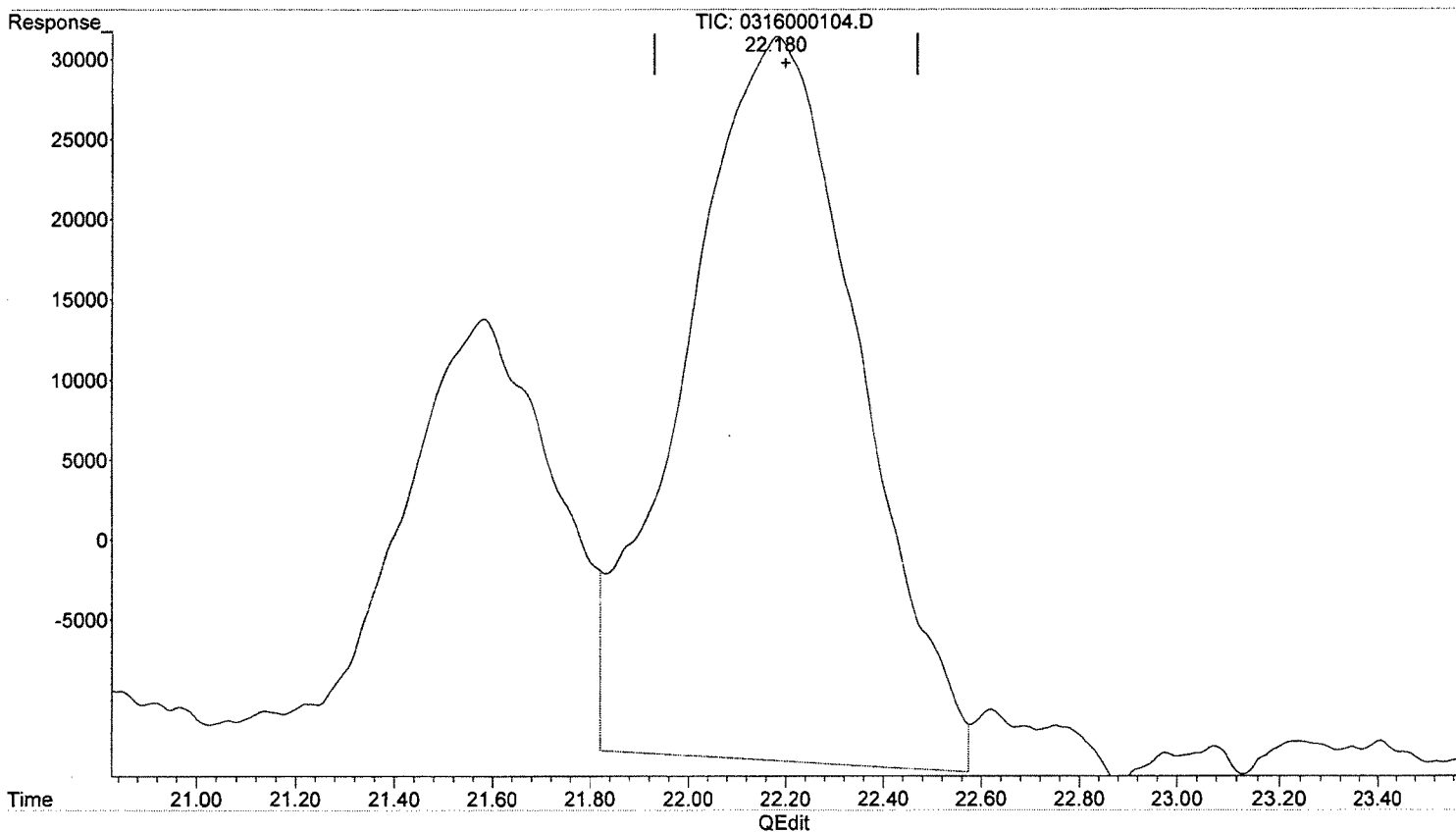
*SJ 3-17-15*

*MJL 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.180min 19.925 ug/L m  
response 1123968

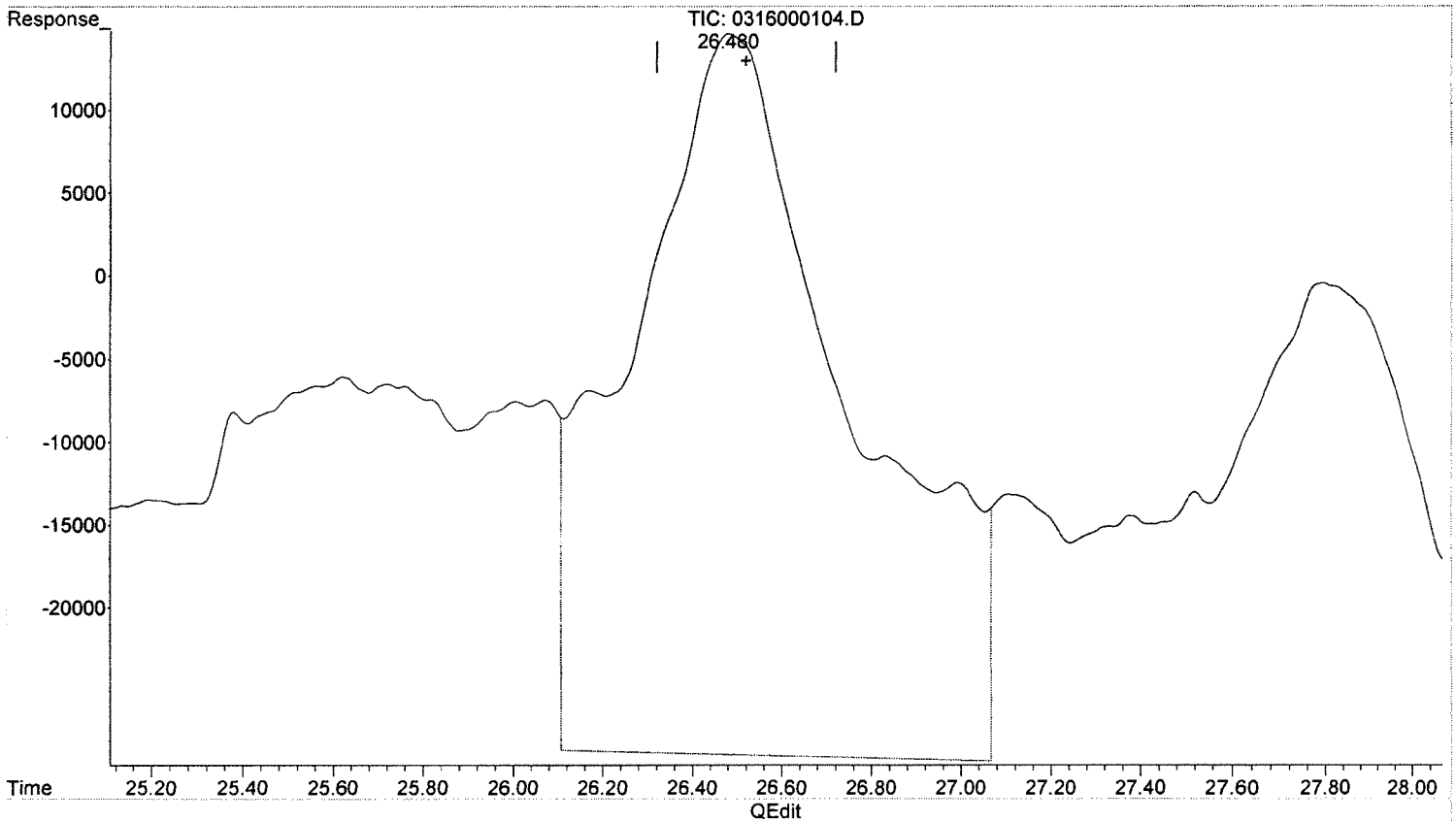
*SJ 3-17-15*  
*BL*

*4/23/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.480min 59.375 ug/L  
response 1500409

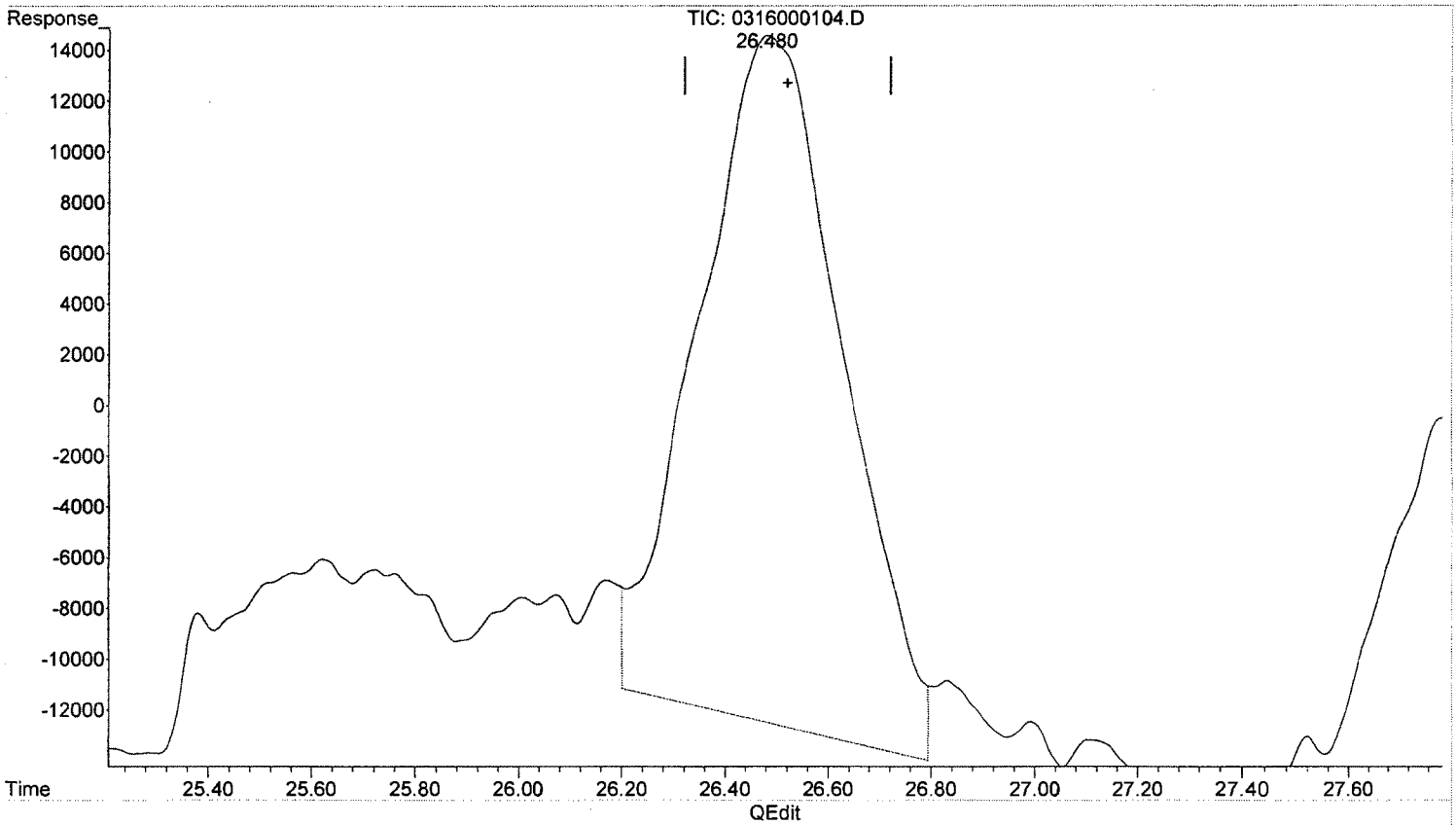
*SJ 3-17-15*

*M 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.480min 20.905 ug/L m  
response 528281

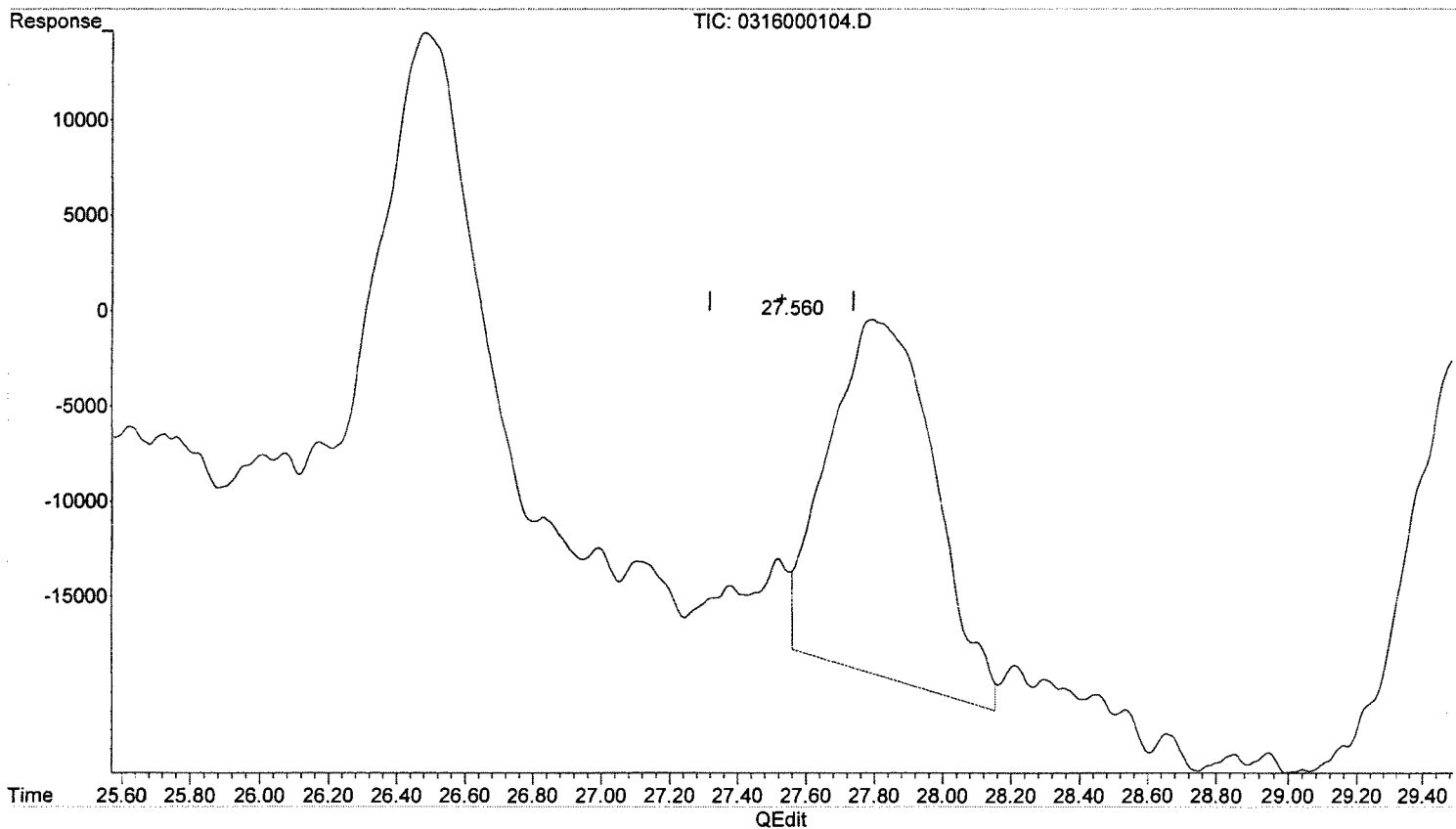
*SJ 3-17-15*  
*BL*

*MH 3-24-15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
27.560min 18.603 ug/L m  
response 402292

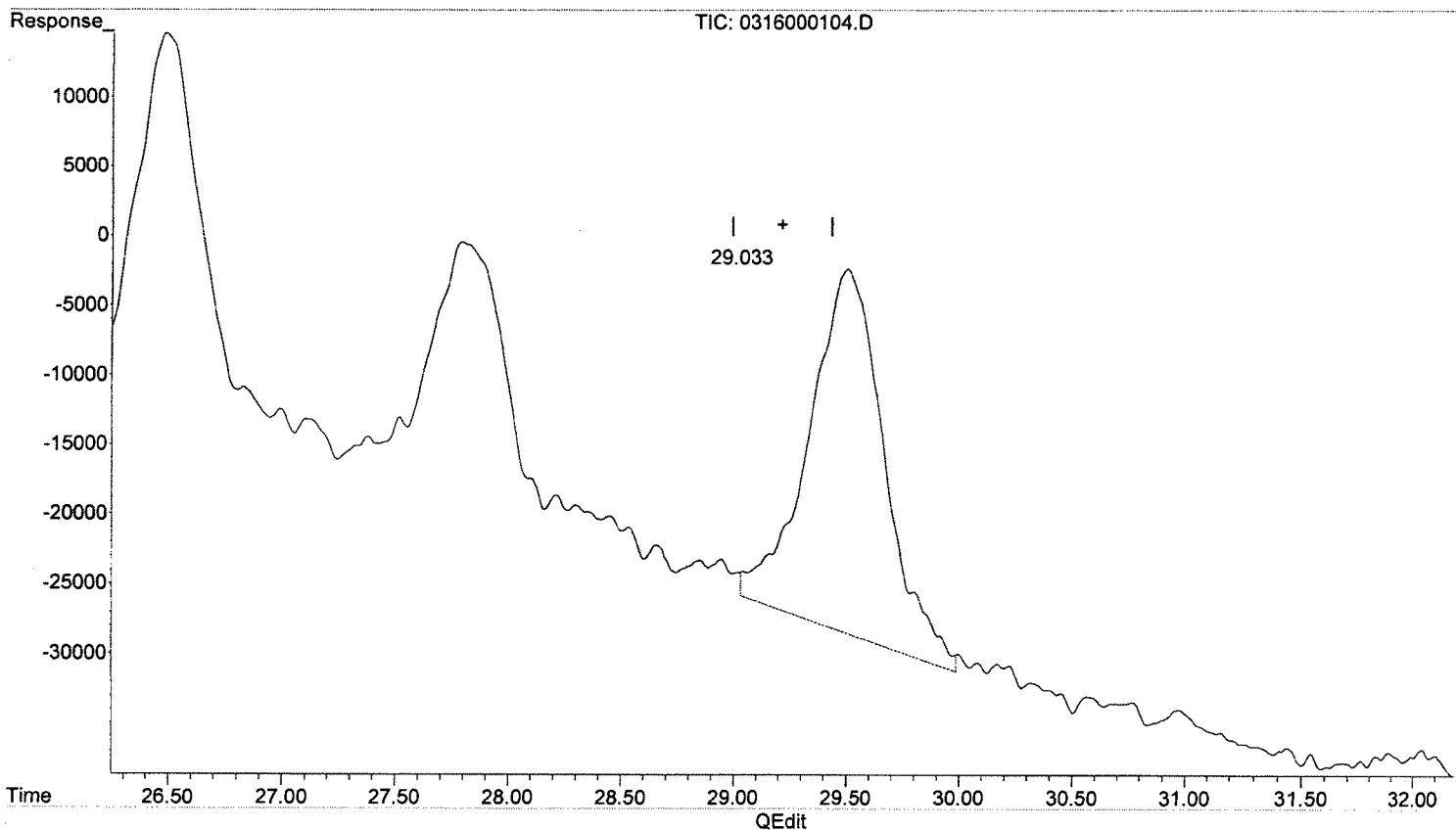
*SJ 3-17-15*  
*MP*

*MSH 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.033min 21.743 ug/L m  
response 607369

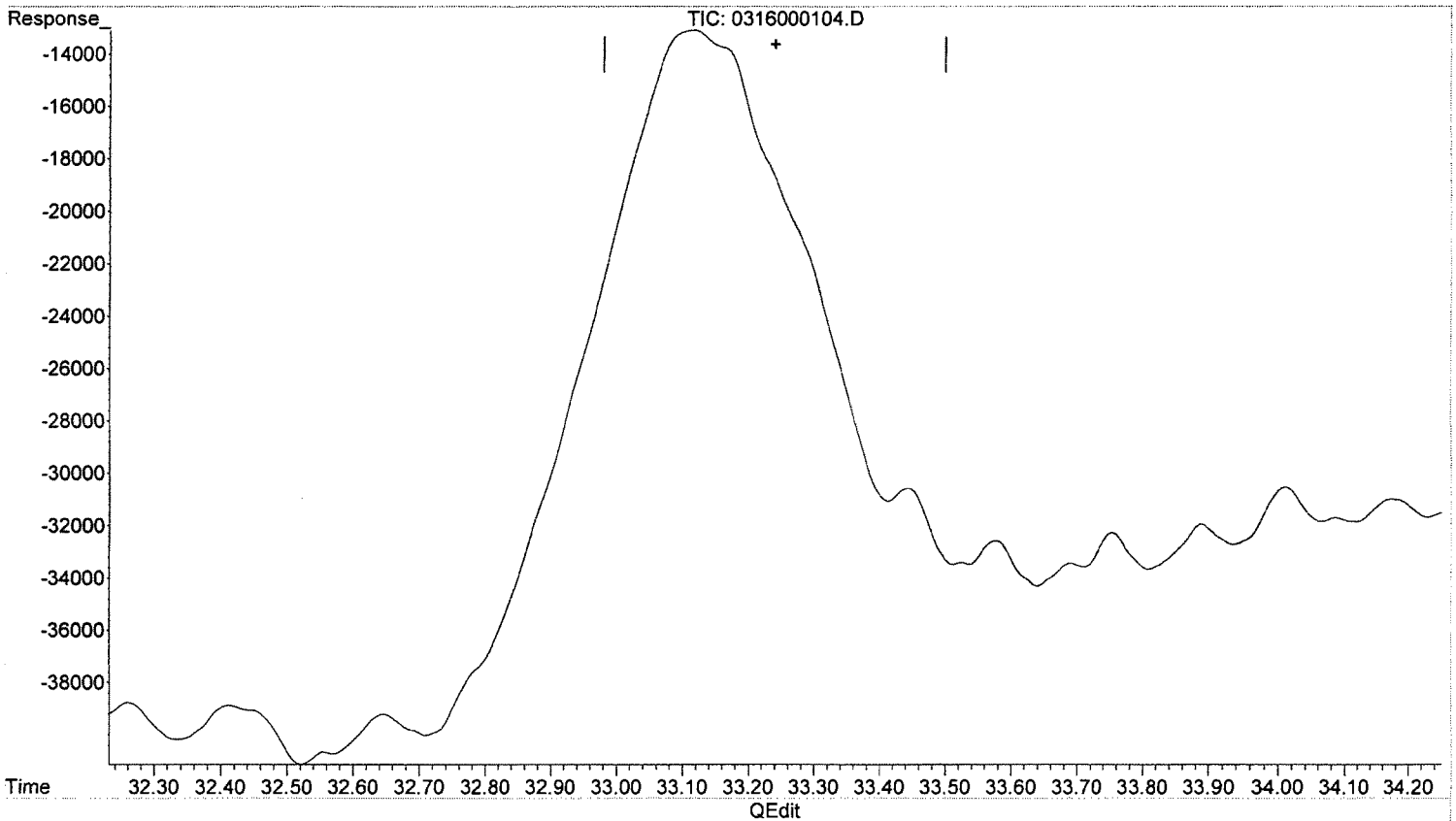
*SJ 3-17-15  
MP*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.120min 25.666 ug/L  
response 827979

*SJ 3-17-15*

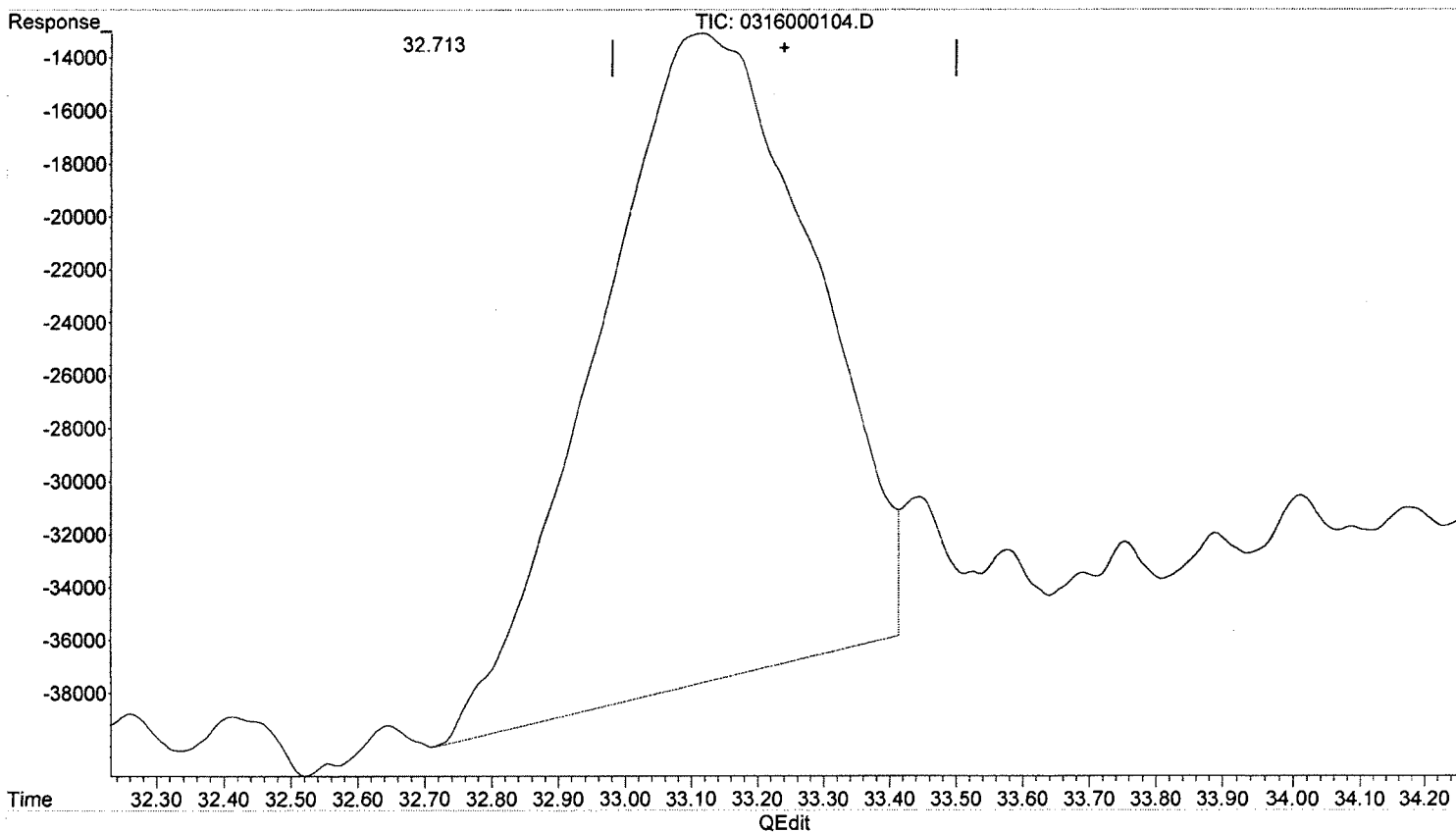
*MPL 3/24/15*



Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:33:42 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)

32.713min 17.267 ug/L m

response 557010

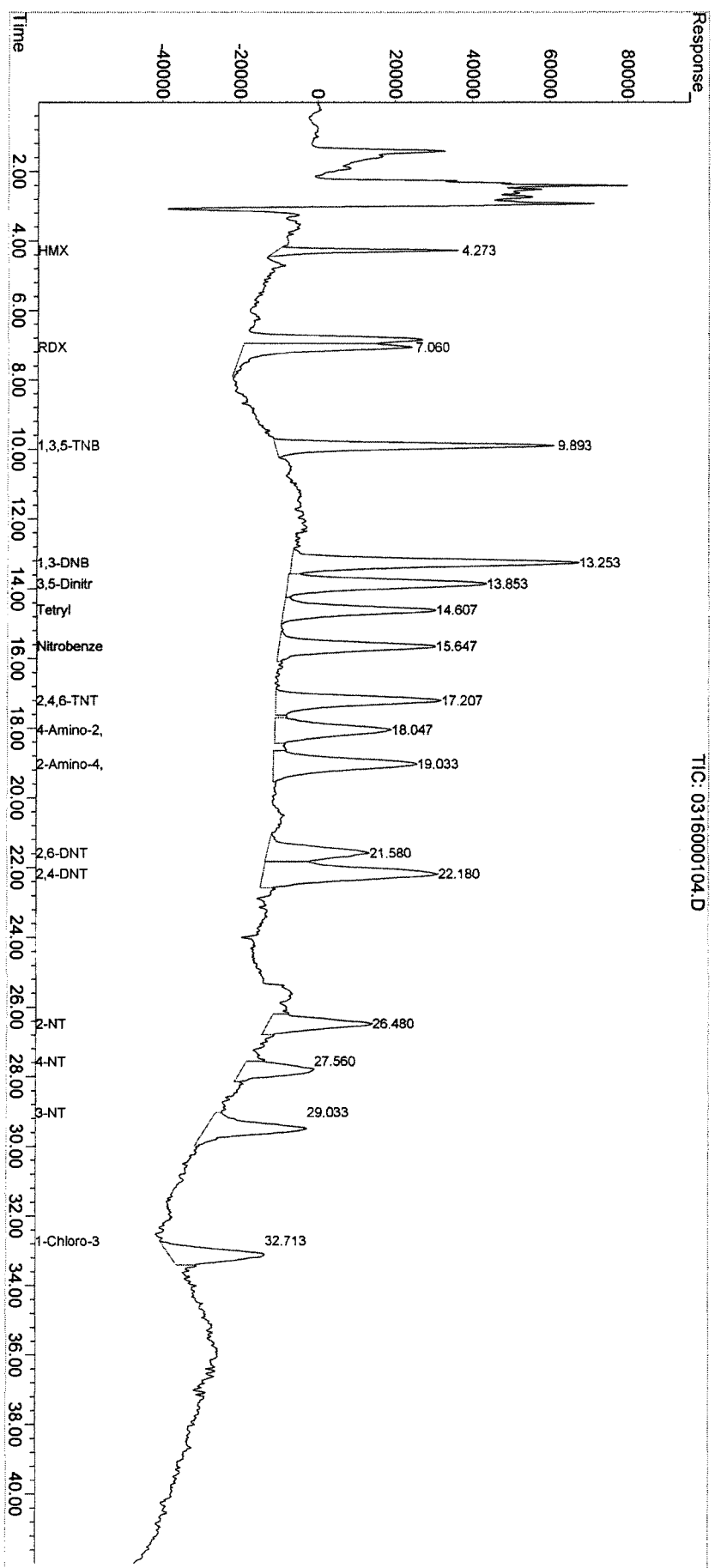
*SJ 3-17-15*  
*MP BL*  
*3-17-15*

*mfl 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000104.D  
Signal(s) : DADIA.ch  
Acq On : 16-Mar-2015, 19:14:12  
Operator : SJ  
Sample : 14-OLC-01-52L 20PPB  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 08:53:49 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CALL3891  
Quant Update : Mon Mar 16 13:56:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100ul  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031615XL\  
 Data File : 0316000105.D  
 Signal(s) : DAD1A.ch  
 Acq On : 16-Mar-2015, 20:00:29  
 Operator : SJ  
 Sample : IB  
 Misc :  
 ALS Vial : 71 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 17 09:58:49 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue Mar 17 09:55:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L d
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L d
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L d
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L d
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window

(m)=manual int.

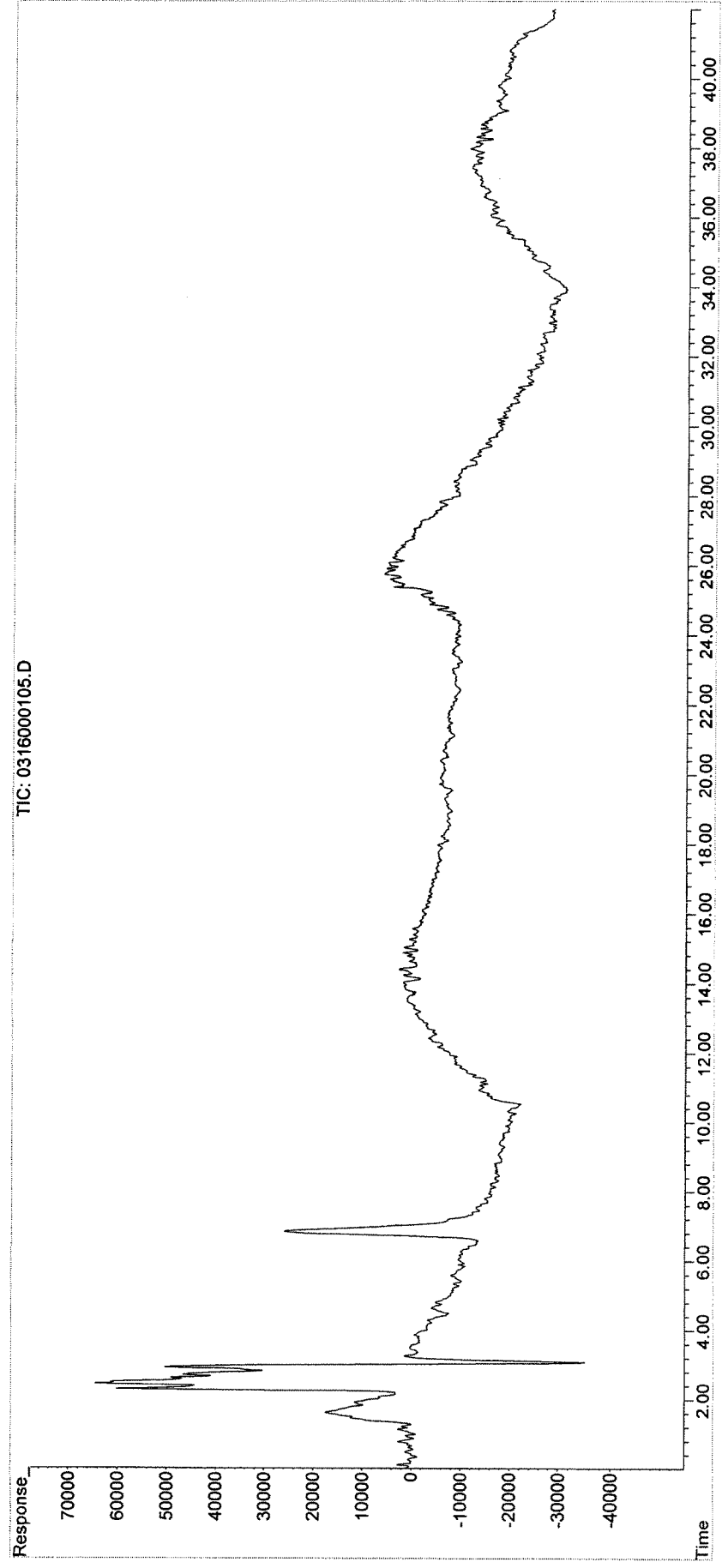
*Sf3-17-15*

*M/L 3/24/15*

Data Path : J:\LC10\Data\031615XL\  
Data File : 0316000105.D  
Signal(s) : DAD1A.ch  
Acq On : 16-Mar-2015, 20:00:29  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 71 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 09:58:49 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000103.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:07:12  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:27 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L d
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L d
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

(f)=RT Delta > 1/2 Window

(m)=manual int.

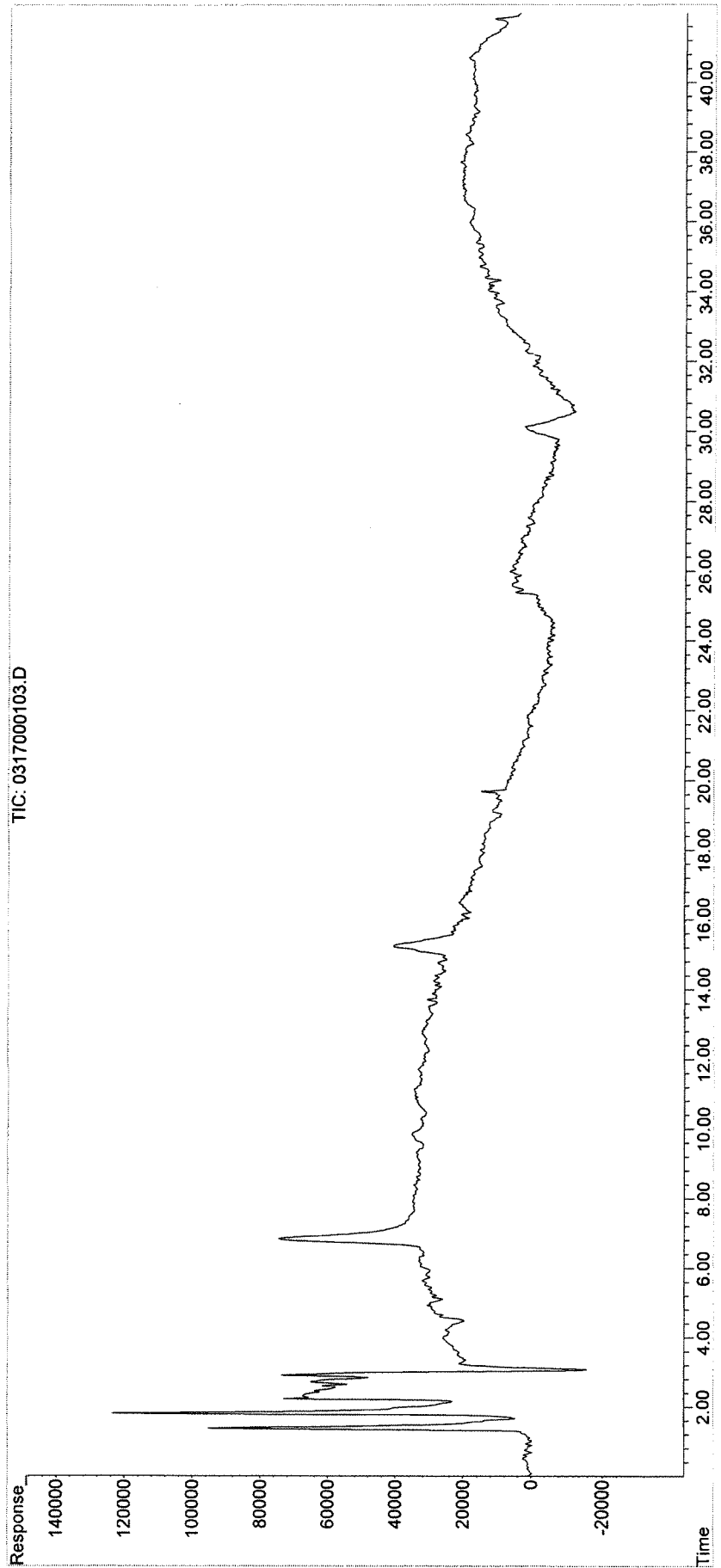
*SJ 3-17-15*

*MW 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000103.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:07:12  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:27 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
Quant Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



Data Path : J:\LC10\Data\031715XL\254\  
 Data File : 0317000104.D  
 Signal(s) : DAD1A.ch  
 Acq On : 17-Mar-2015, 12:53:28  
 Operator : SJ  
 Sample : 14-OLC-01-52K 1000PPB ICV  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 17 14:31:04 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue Mar 17 09:55:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.094f	32921006	1071.387	ug/L m
Target Compounds				
1) T HMX	4.274	15947713	1034.316	ug/L m
2) T RDX	7.067	20054592	994.732	ug/L
3) T 1,3,5-TNB	9.881	45099558	995.774	ug/L
4) T 1,3-DNB	13.227	60230616	984.893	ug/L
5) T 3,5-Dinitroaniline	13.834	47244316	974.092	ug/L
6) T Tetryl	14.594	35196846	998.695	ug/L
7) T Nitrobenzene	15.628	38709492	998.911	ug/L
8) T 2,4,6-TNT	17.188	41816910	993.519	ug/L m
9) T 4-Amino-2,6-DNT	18.034	29206412	937.429	ug/L
10) T 2-Amino-4,6-DNT	19.014	43471056	1043.914	ug/L
11) T 2,6-DNT	21.561	28608524	1008.259	ug/L
12) T 2,4-DNT	22.154	56329075	999.108	ug/L
13) T 2-NT	26.481	24763804	977.963	ug/L
14) T 4-NT	27.808f	20929664	980.161	ug/L m
15) T 3-NT	29.488f	25734193	904.585	ug/L m

(f)=RT Delta > 1/2 Window

(m)=manual int.

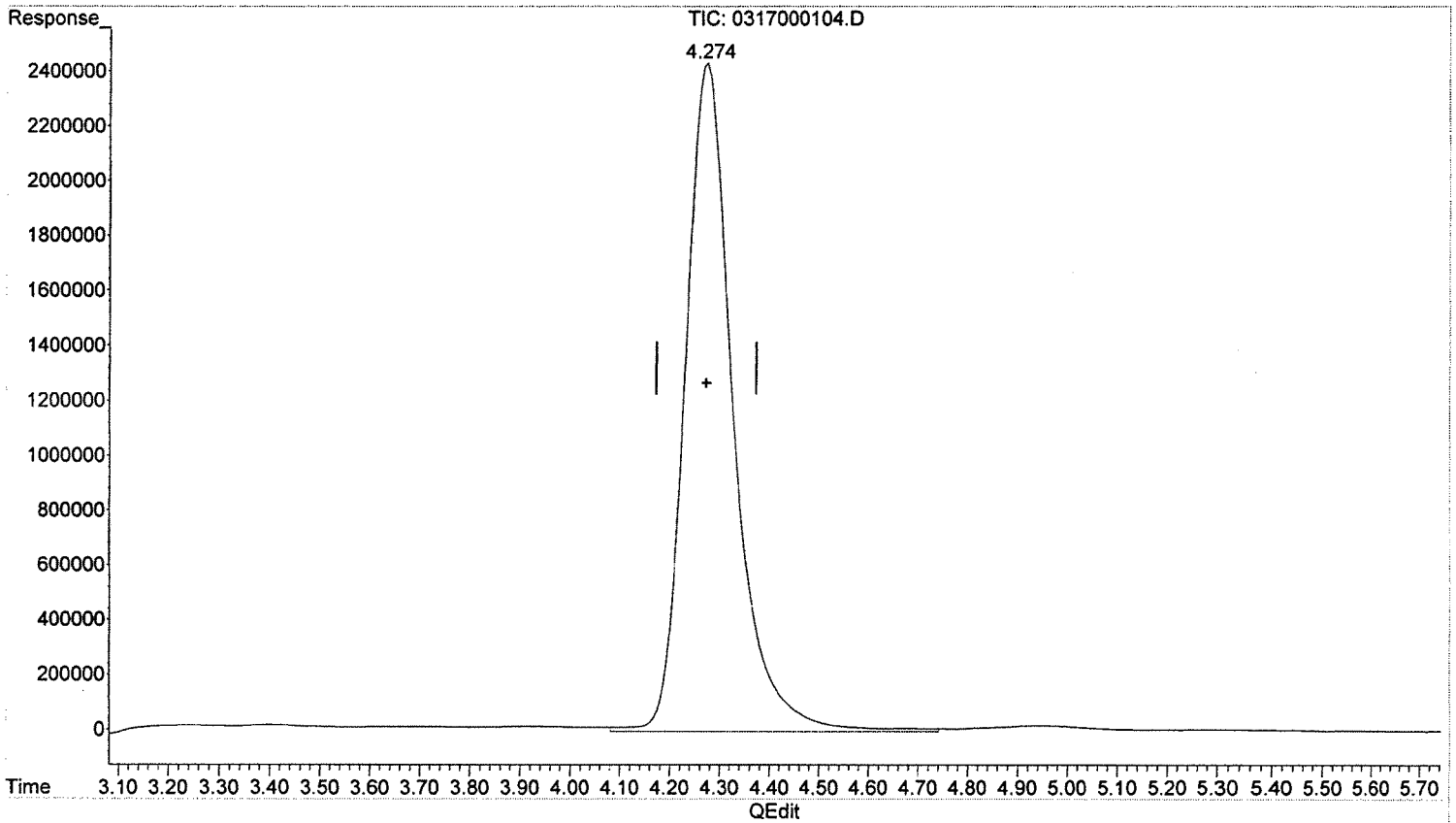
*SJ 3-17-15*

*MJL 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.274min 1065.094 ug/L  
response 16422260

*SJ 3-17-15*

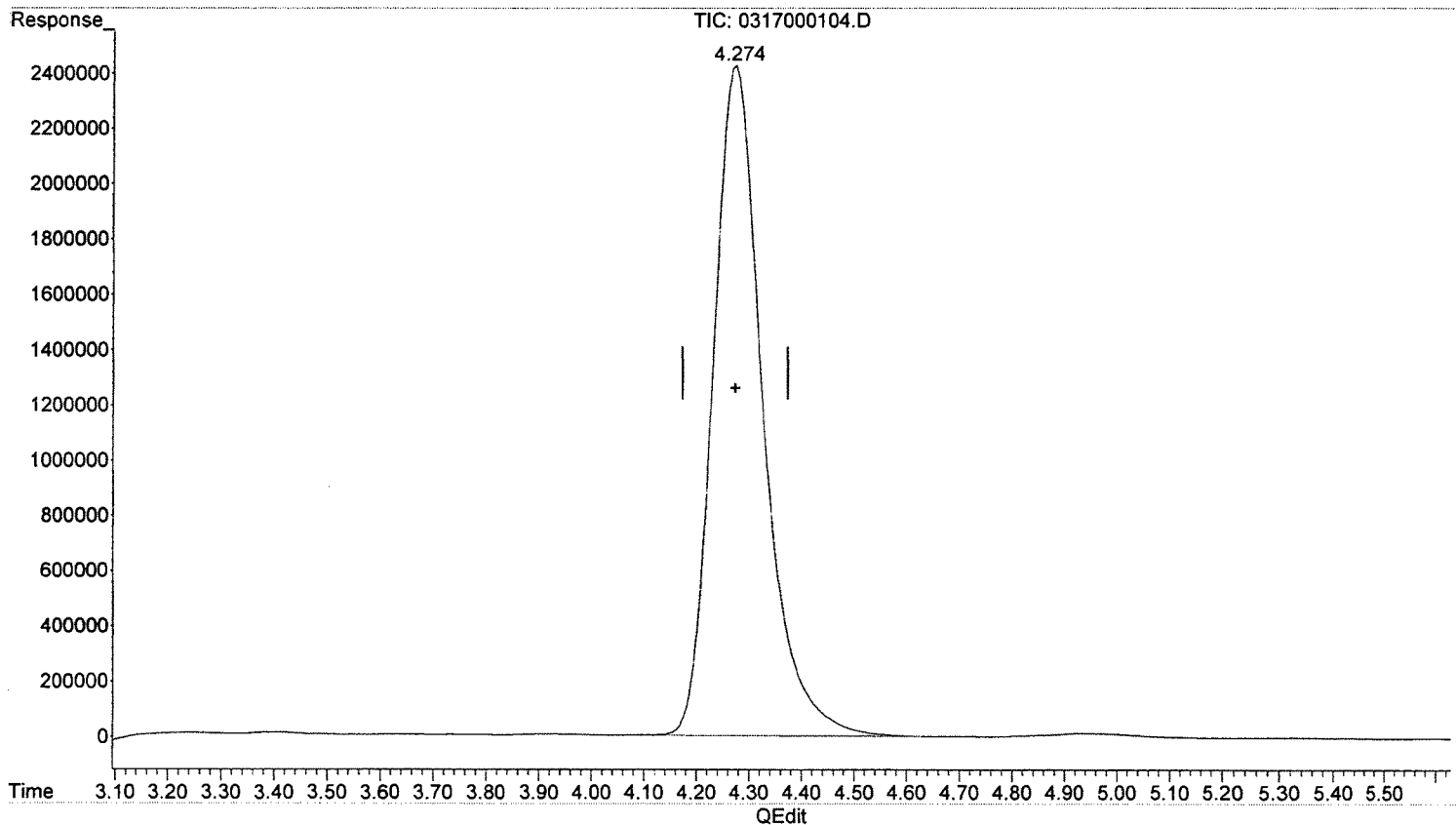
*MJ 3/24/15*



Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



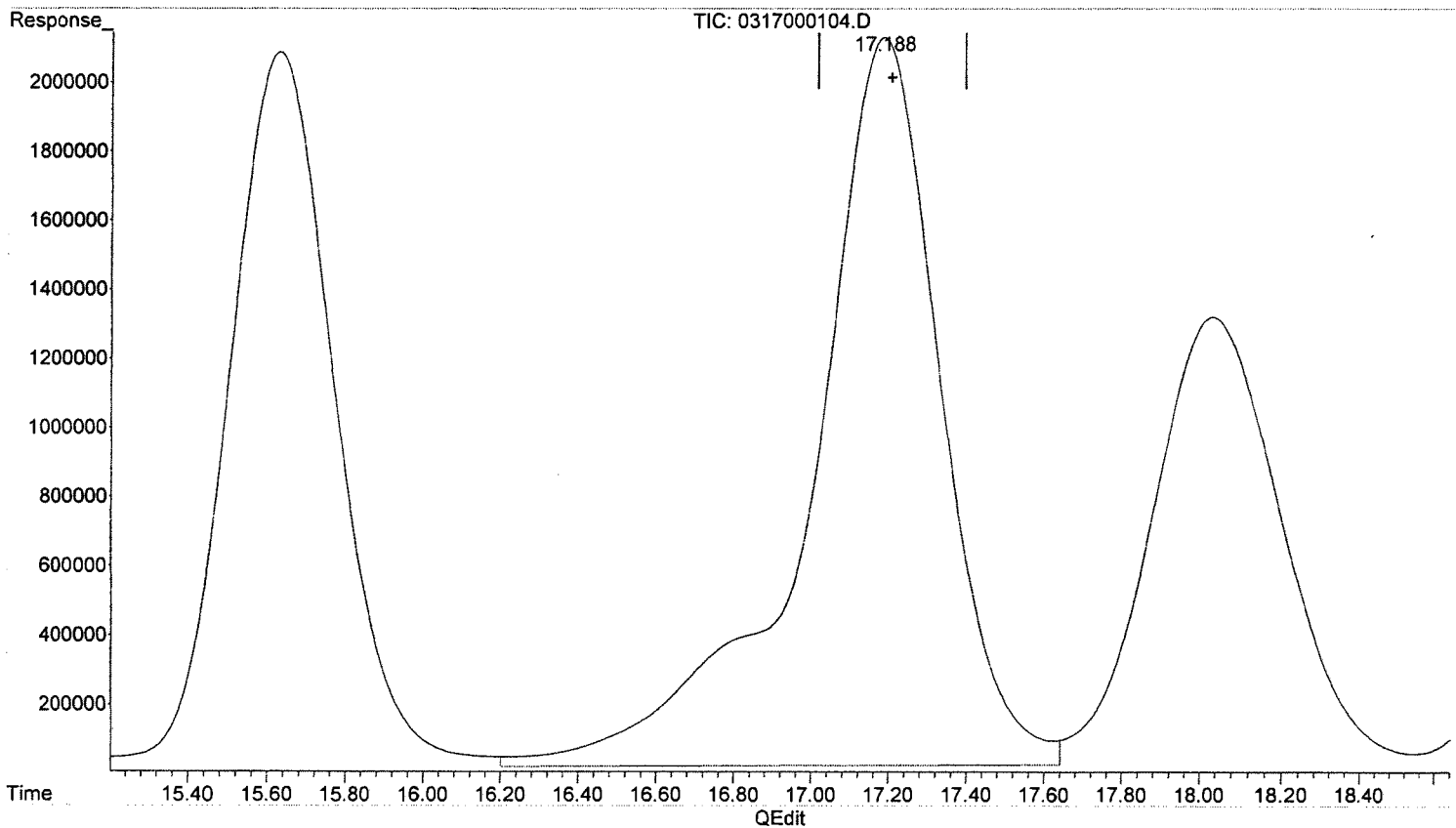
(1) HMX (T)  
4.274min 1034.316 ug/L m  
response 15947713

*SJ 3-17-15*  
*BL*  
*MH 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.188min 1163.590 ug/L  
response 48975156

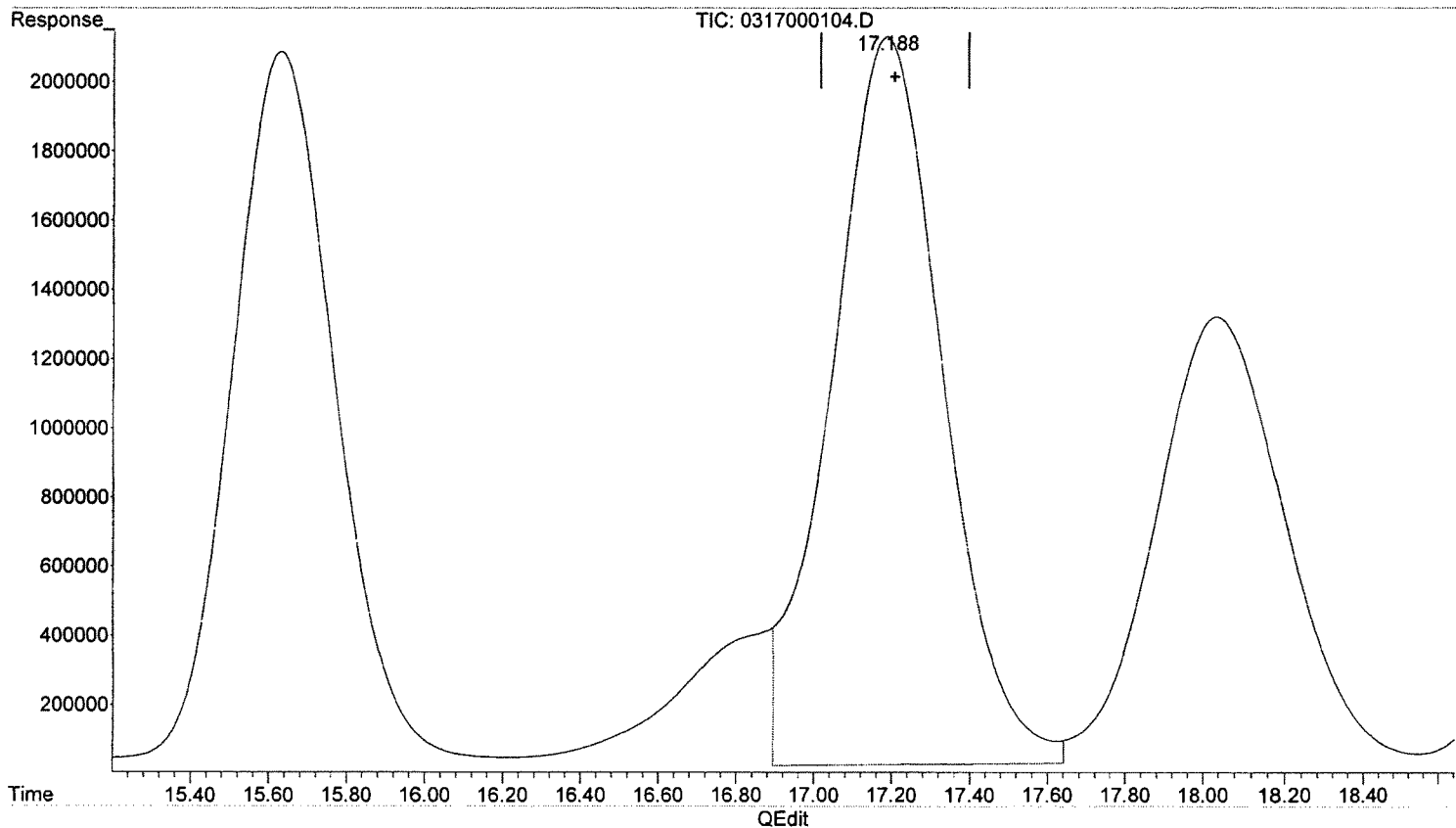
*SJ 3-17-15*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.188min 993.519 ug/L m  
response 41816910

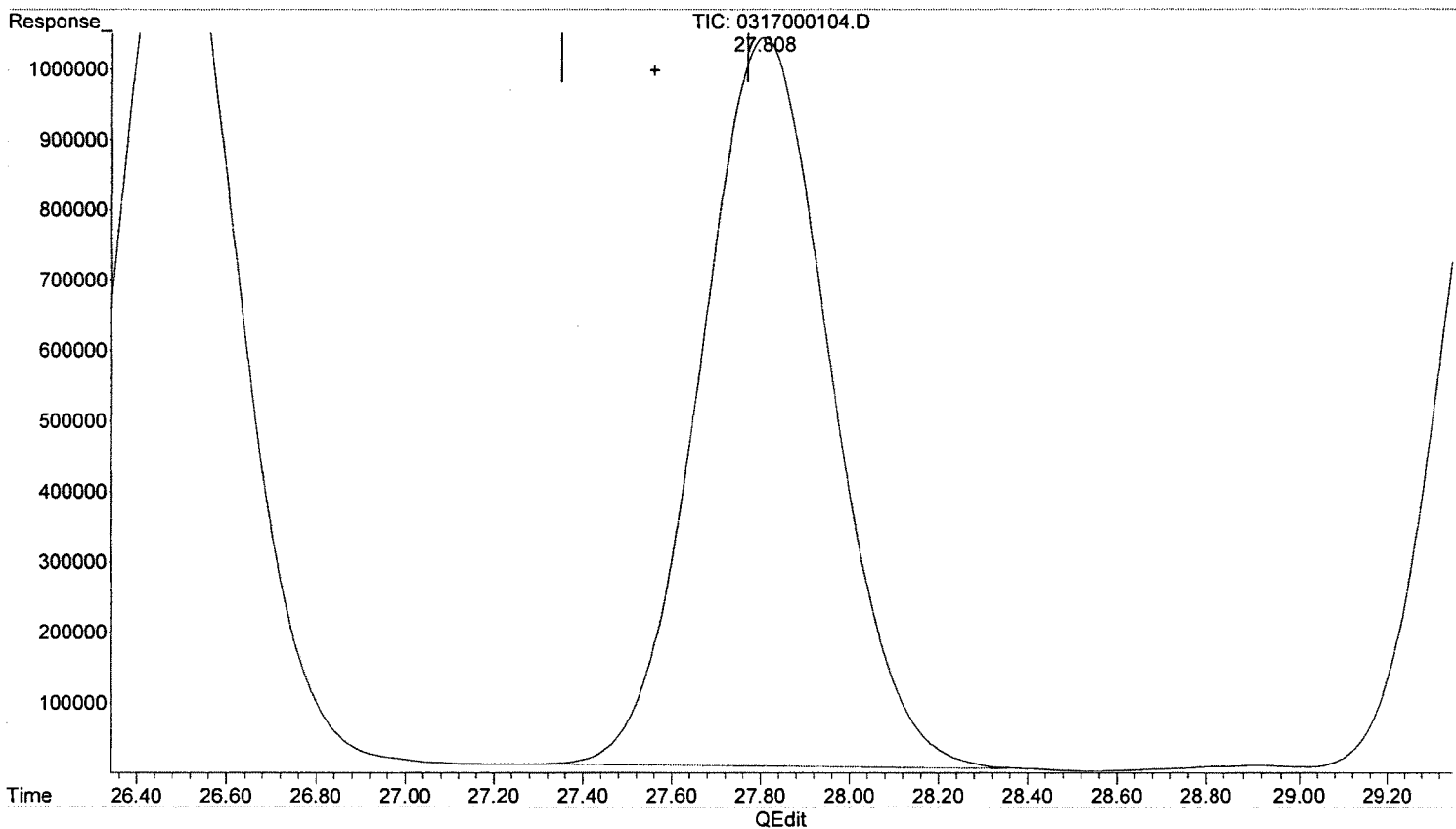
*SJ 3-17-15  
BL*

*MJ 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
27.808min 980.161 ug/L m  
response 20929664

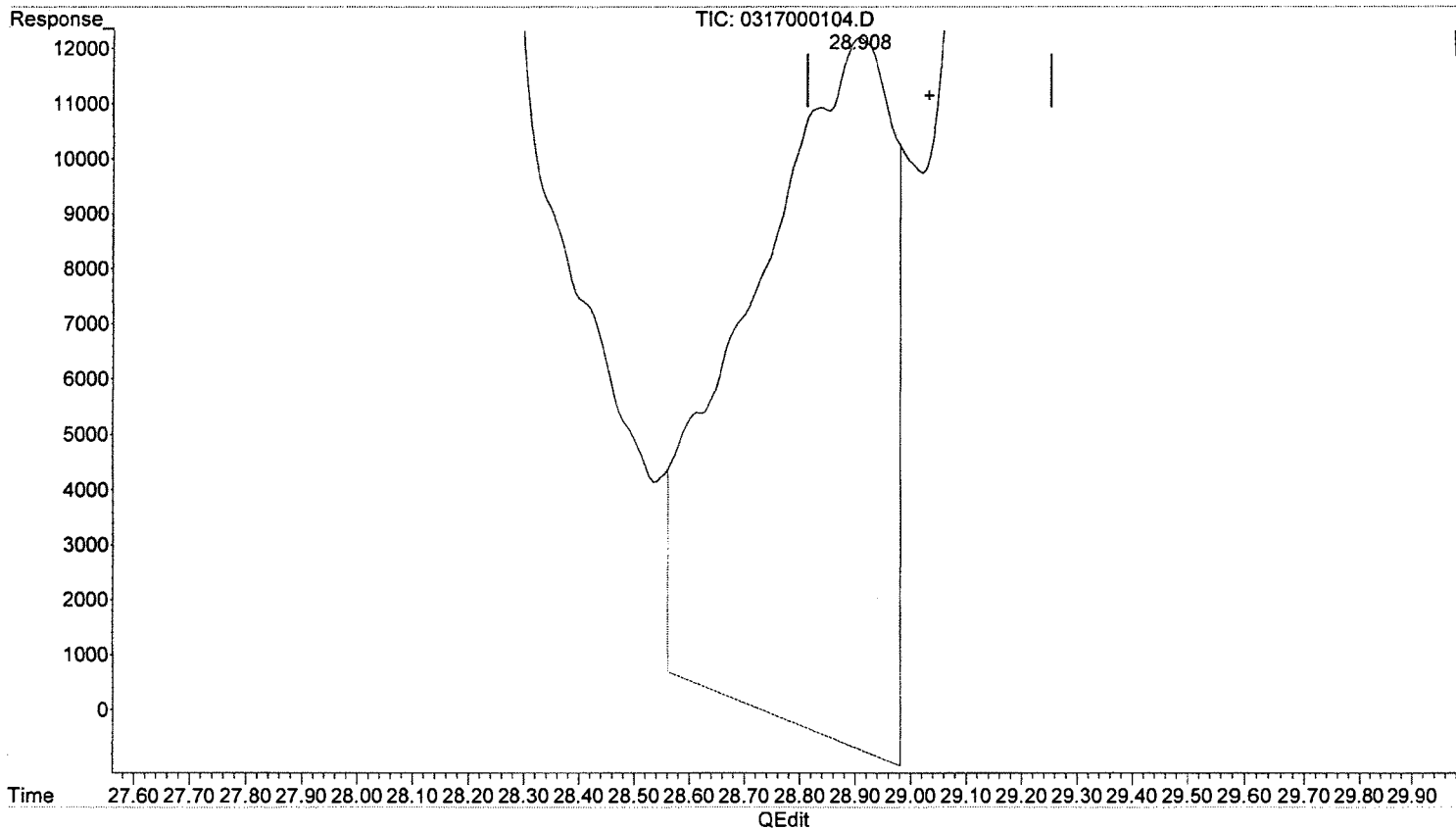
*SJ 3-17-15*  
*BL/MP*

*WJL 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
28.907min 7.950 ug/L  
response 226176

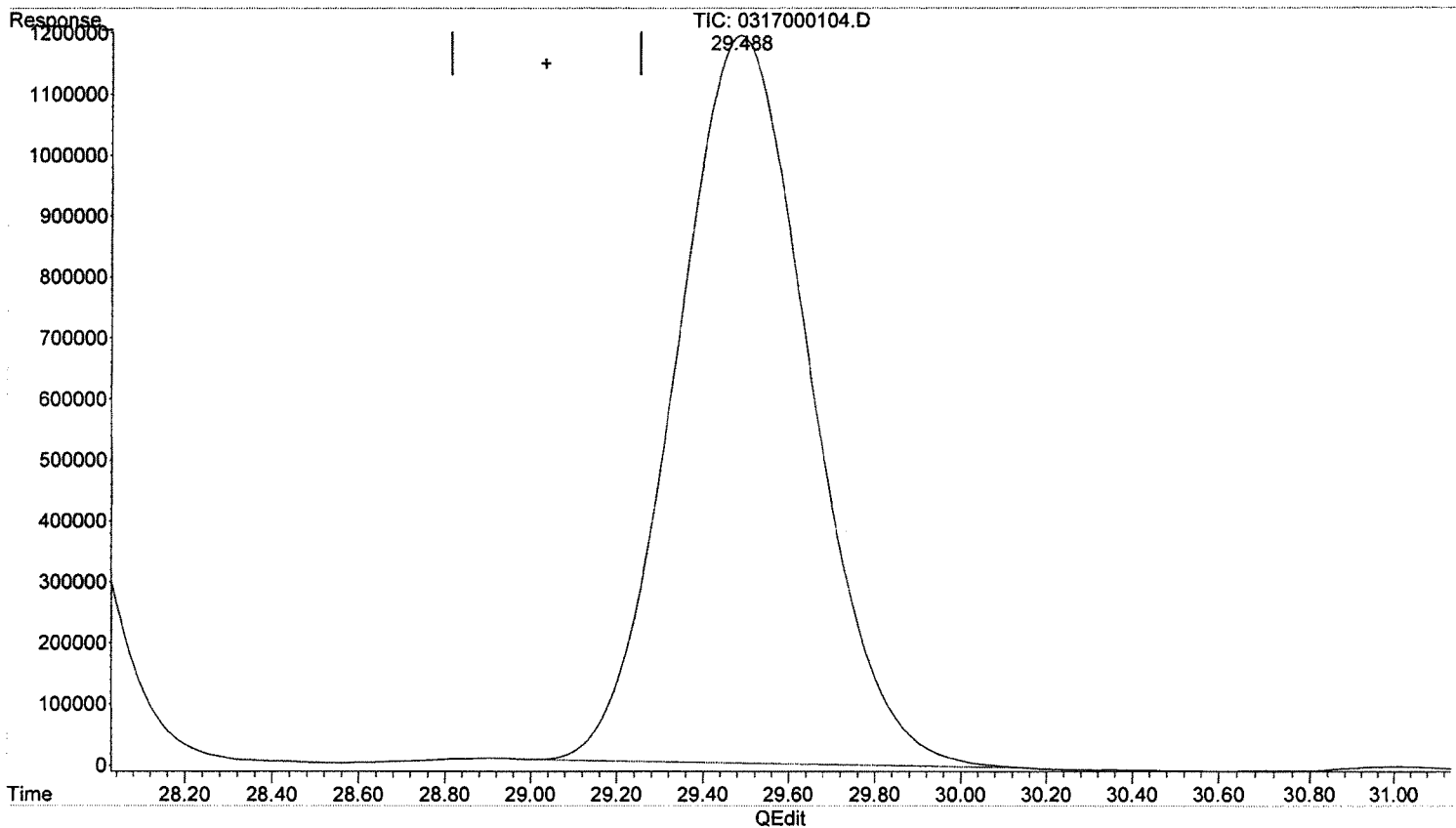
*SJ 3-17-15*

*MH 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.488min 904.585 ug/L m  
response 25734193

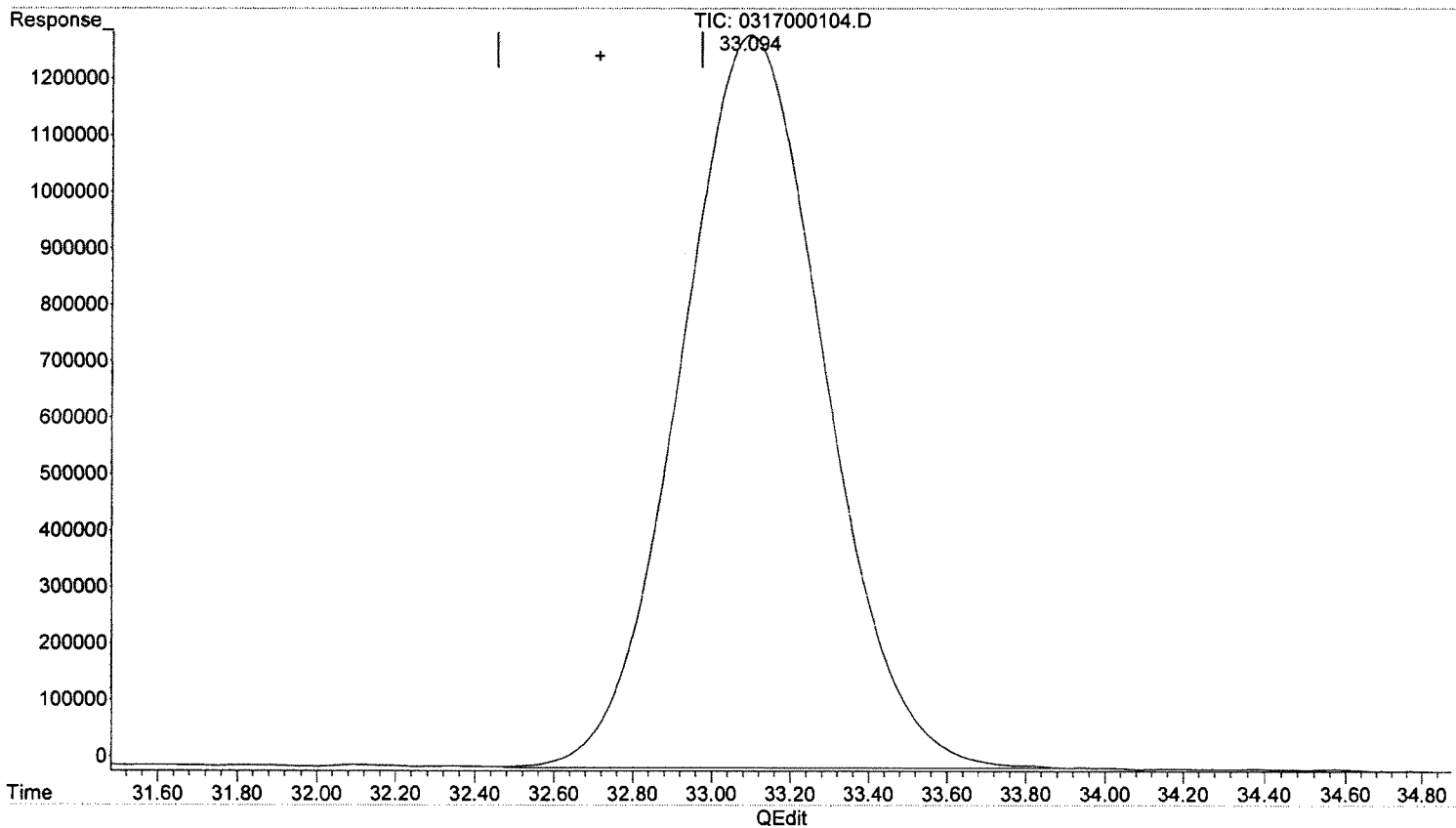
*SJ 3-17-15  
BCLWP*

*APL 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:27:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.094min 1071.387 ug/L m  
response 32921006

*SJ 3-17-15  
BL*

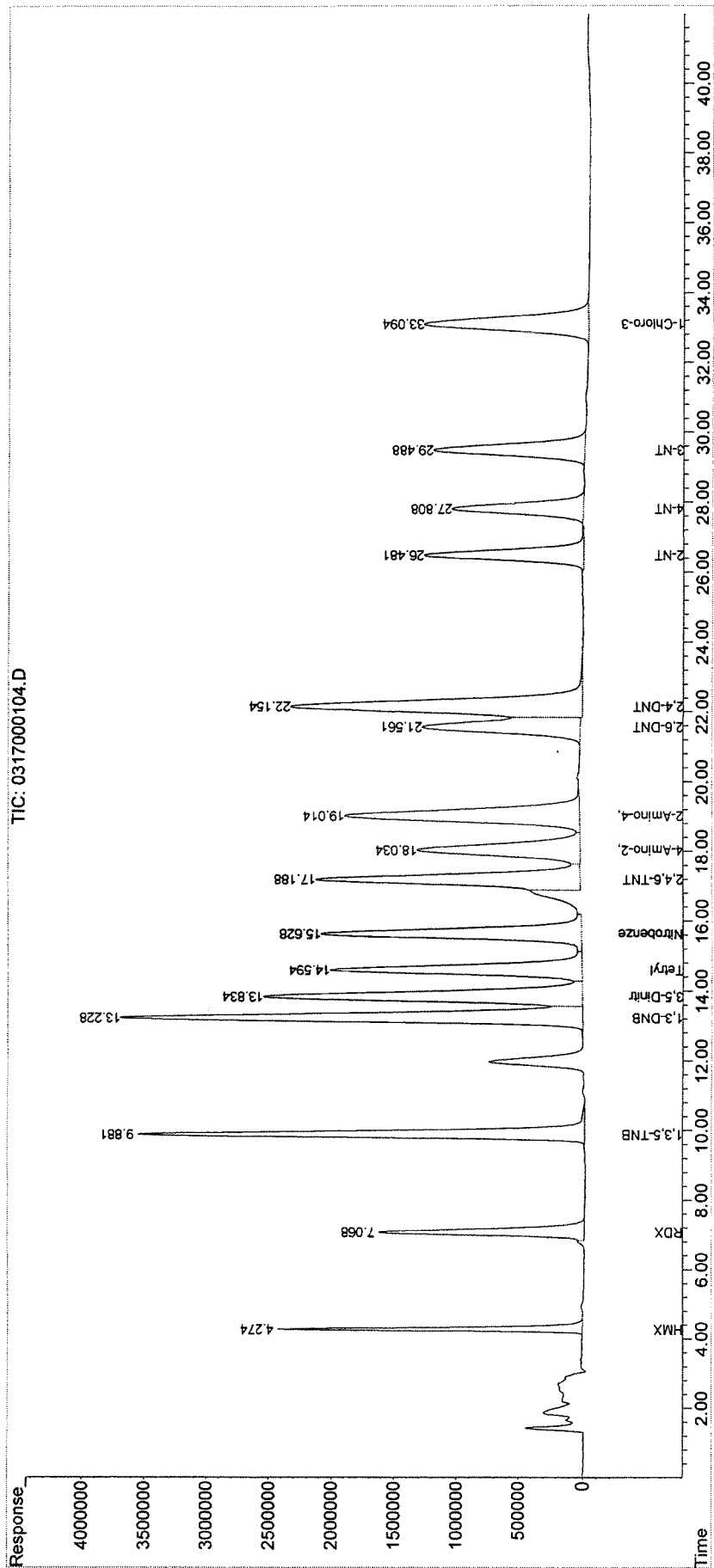
*Forget Before*

*M/3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000104.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:31:04 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
Quant Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm





Data Path : J:\LC10\Data\031715XL\254\  
 Data File : 0317000105.D  
 Signal(s) : DAD1A.ch  
 Acq On : 17-Mar-2015, 13:39:44  
 Operator : SJ  
 Sample : IB  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 17 14:31:38 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue Mar 17 09:55:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L d
15) T 3-NT	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window

(m)=manual int.

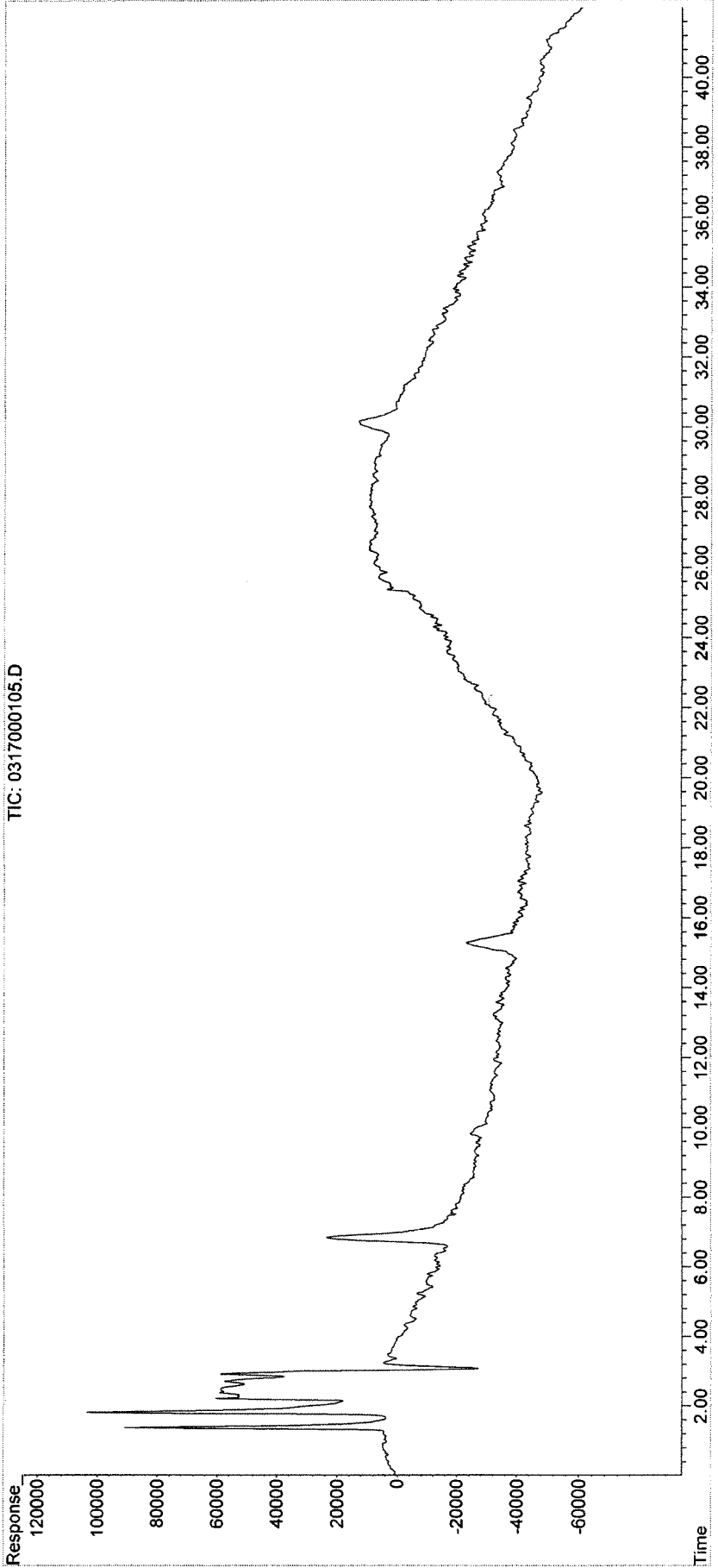
*SJ 3-17-15*

*ml 3/24/15*

Data Path : J:\LC10\Data\031715XL\254\  
Data File : 0317000105.D  
Signal(s) : DAD1A.ch  
Acq On : 17-Mar-2015, 13:39:44  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:31:38 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue Mar 17 09:55:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm









Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000102.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 18:04:45  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 16:00:41 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L d
2) T PETN	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window

(m)=manual int.

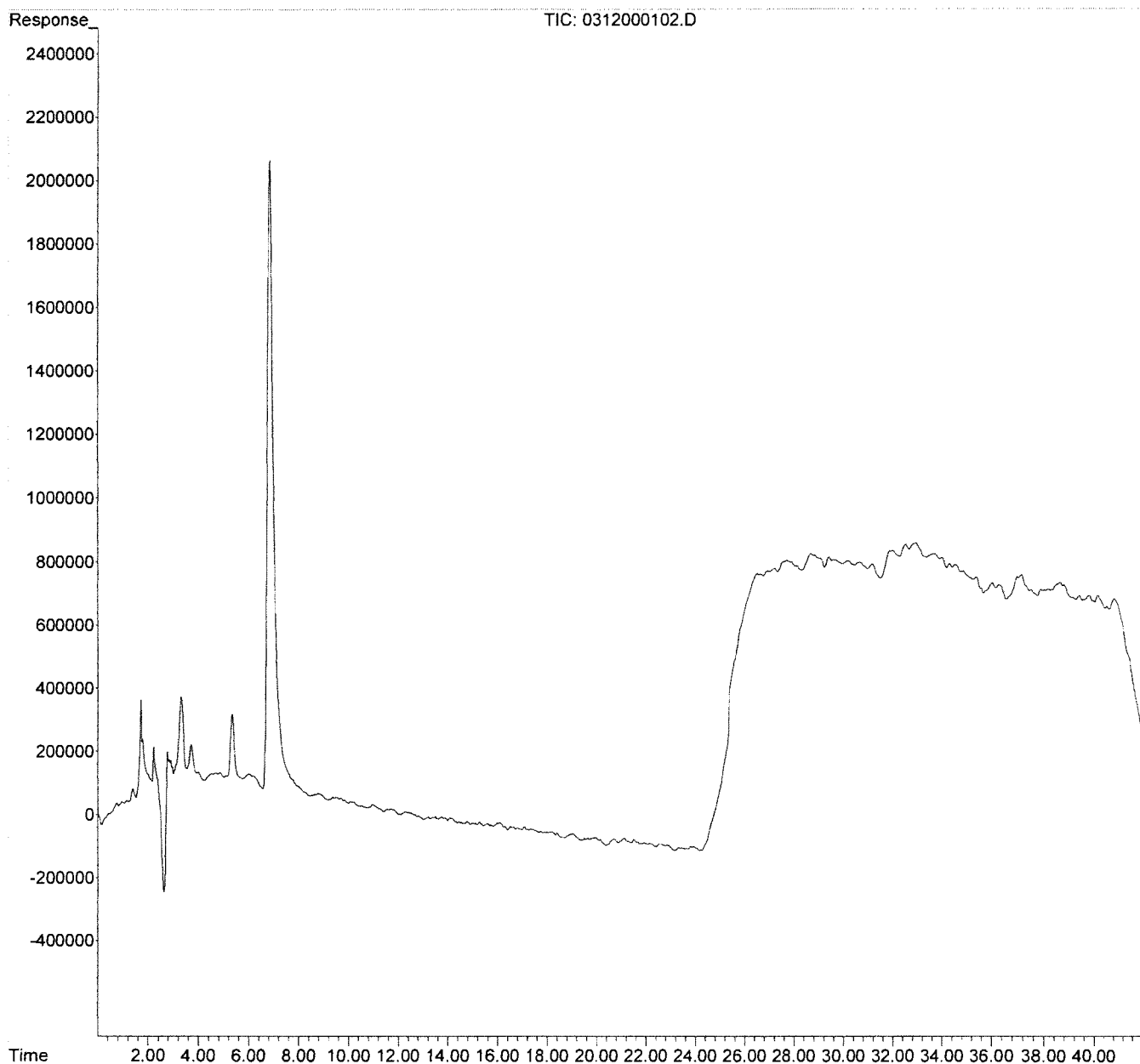
*SJ 3-17-15*

*MA 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000102.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 18:04:45  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 16:00:41 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000103.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 18:51:00  
Operator : SJ  
Sample : 14-OLC-01-52A 20PPB  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:31:53 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Mon Mar 16 15:22:06 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.241	866191	11.436 ug/L
Target Compounds			
1) T Nitroglycerin	15.681	687796	34.867 ug/L m
2) T PETN	29.581	1775586	83.452 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

*SJ 3-17-15*

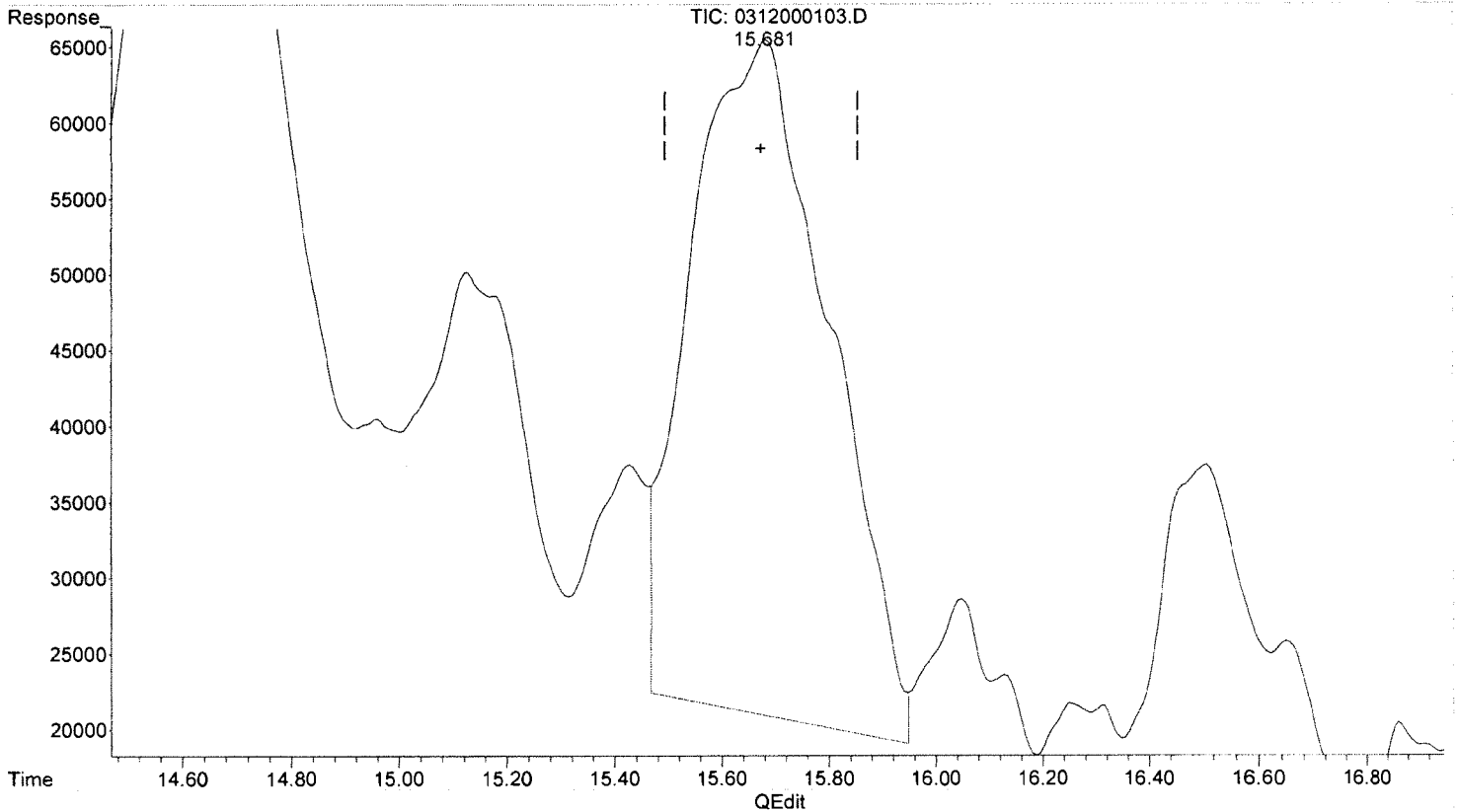
*M/3/24/15*



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000103.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 18:51:00  
Operator : SJ  
Sample : 14-OLC-01-52A 20PPB  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:10:57 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Mon Mar 16 15:08:34 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)  
15.681min 40.466 ug/L  
response 798259

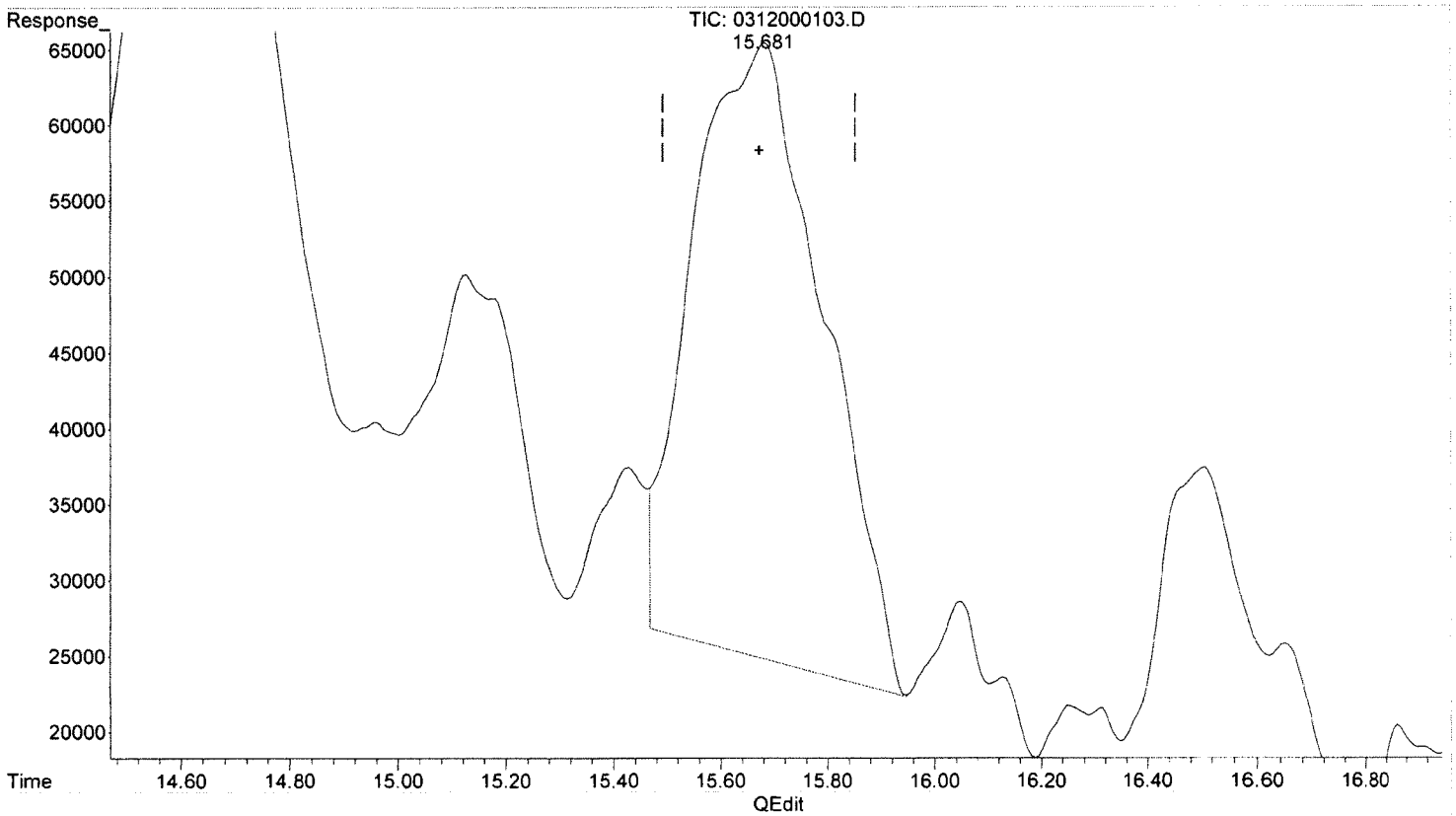
*SJ 3-17-15*

*MA 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000103.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 18:51:00  
Operator : SJ  
Sample : 14-OLC-01-52A 20PPB  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:22:52 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Mon Mar 16 15:22:06 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)  
15.681min 34.867 ug/L m  
response 687796

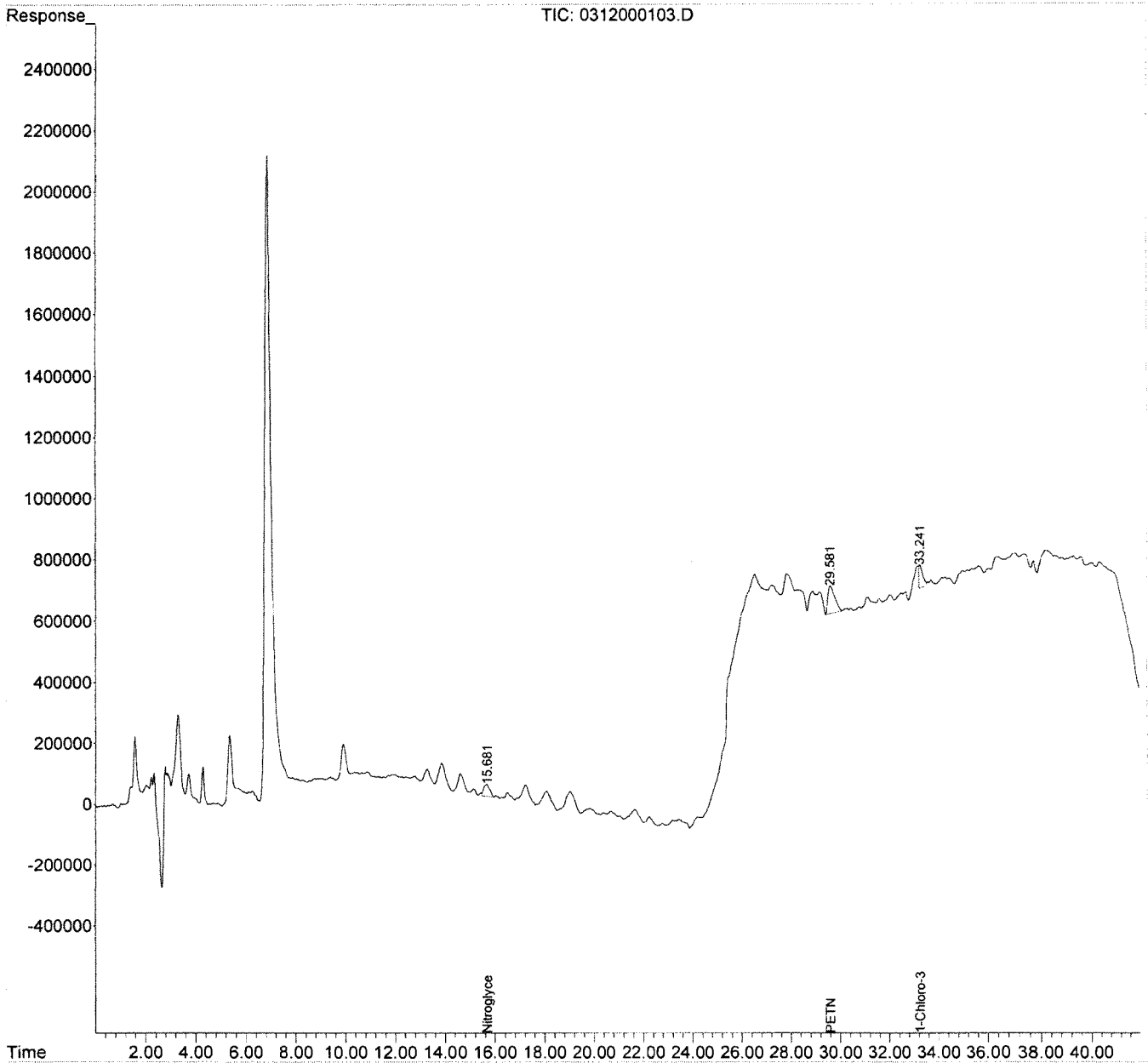
*SJ 3-17-15  
BL*

*M 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000103.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 18:51:00  
Operator : SJ  
Sample : 14-OLC-01-52A 20PPB  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:31:53 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Mon Mar 16 15:22:06 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
 Data File : 0312000104.D  
 Signal(s) : DAD1B.ch  
 Acq On : 12-Mar-2015, 19:37:16  
 Operator : SJ  
 Sample : 14-OLC-01-52B 50PPB  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 15:33:08 2015  
 Quant Method : J:\LC10\Method\021615\_8330B@210.M  
 Quant Title : CAL13117  
 QLast Update : Tue Feb 24 12:56:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.188	4713748	62.232 ug/L
Target Compounds			
1) T Nitroglycerin	15.688	2184526	110.741 ug/L m
2) T PETN	29.548	2196393	103.230 ug/L m
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

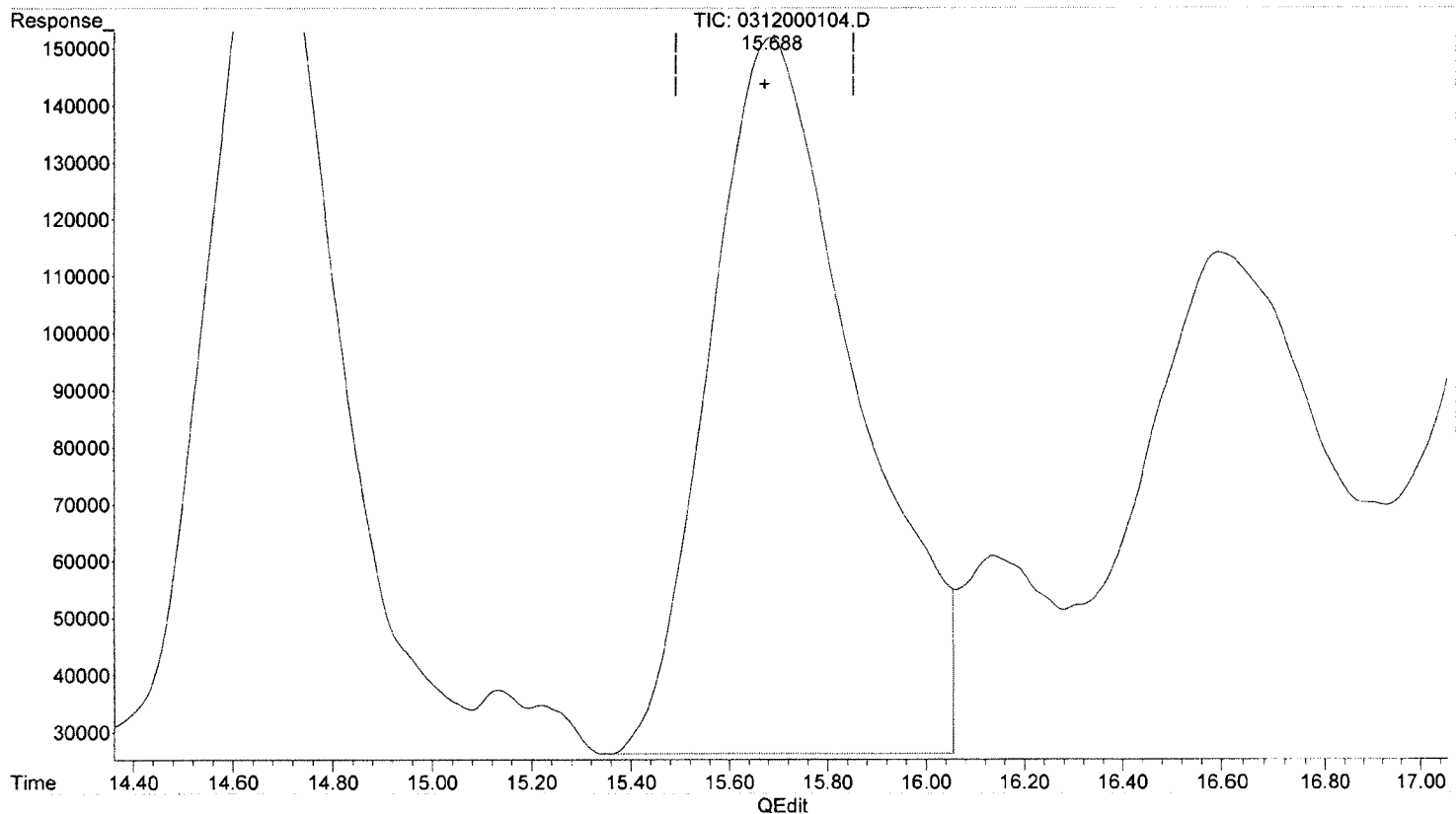
*SJ 3-17-15*

*M 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000104.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:22:55 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)  
15.688min 132.454 ug/L  
response 2612848

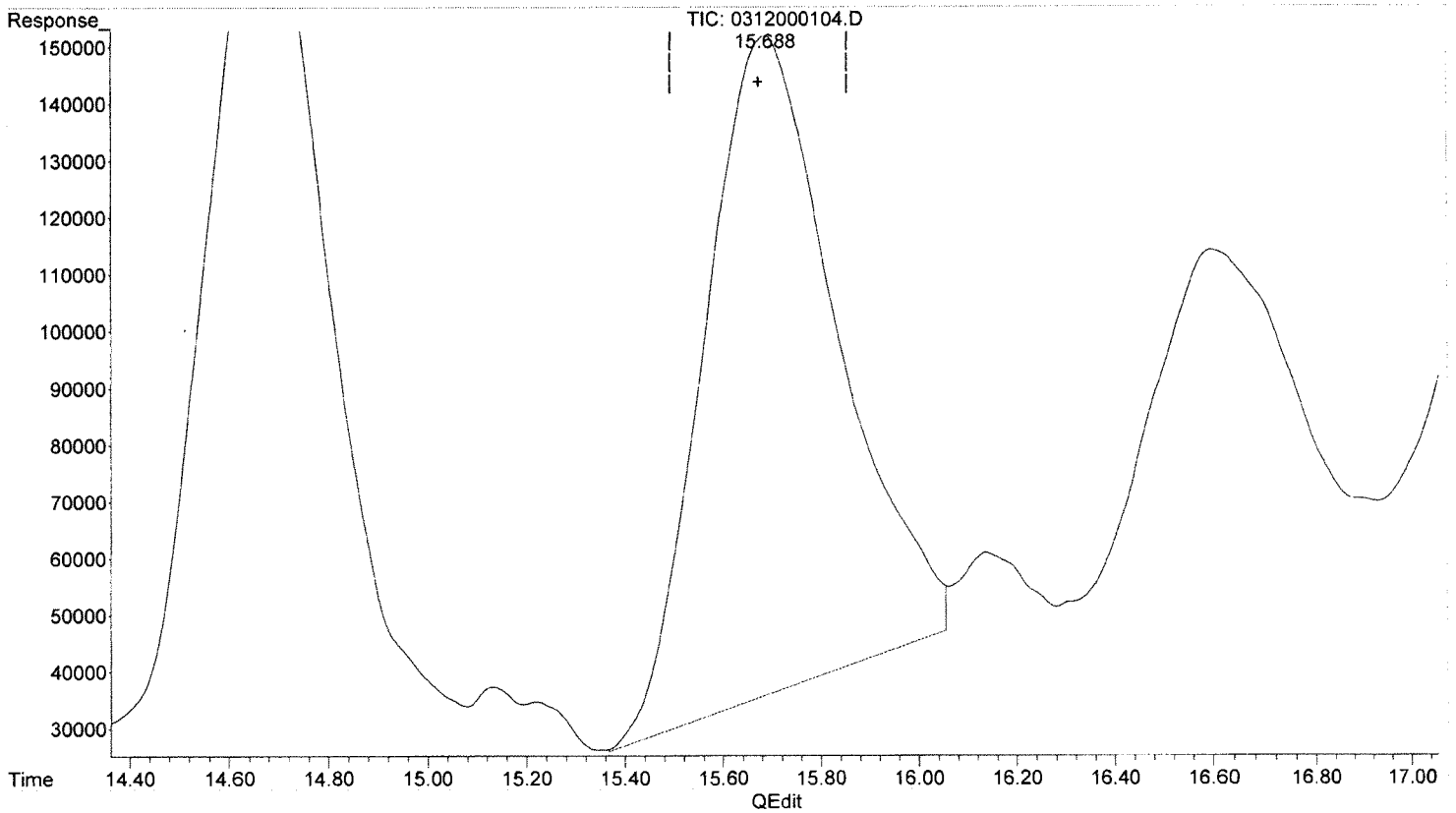
*SJ 3.17.15*

*MH 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000104.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:22:55 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)  
15.688min 110.741 ug/L m  
response 2184526

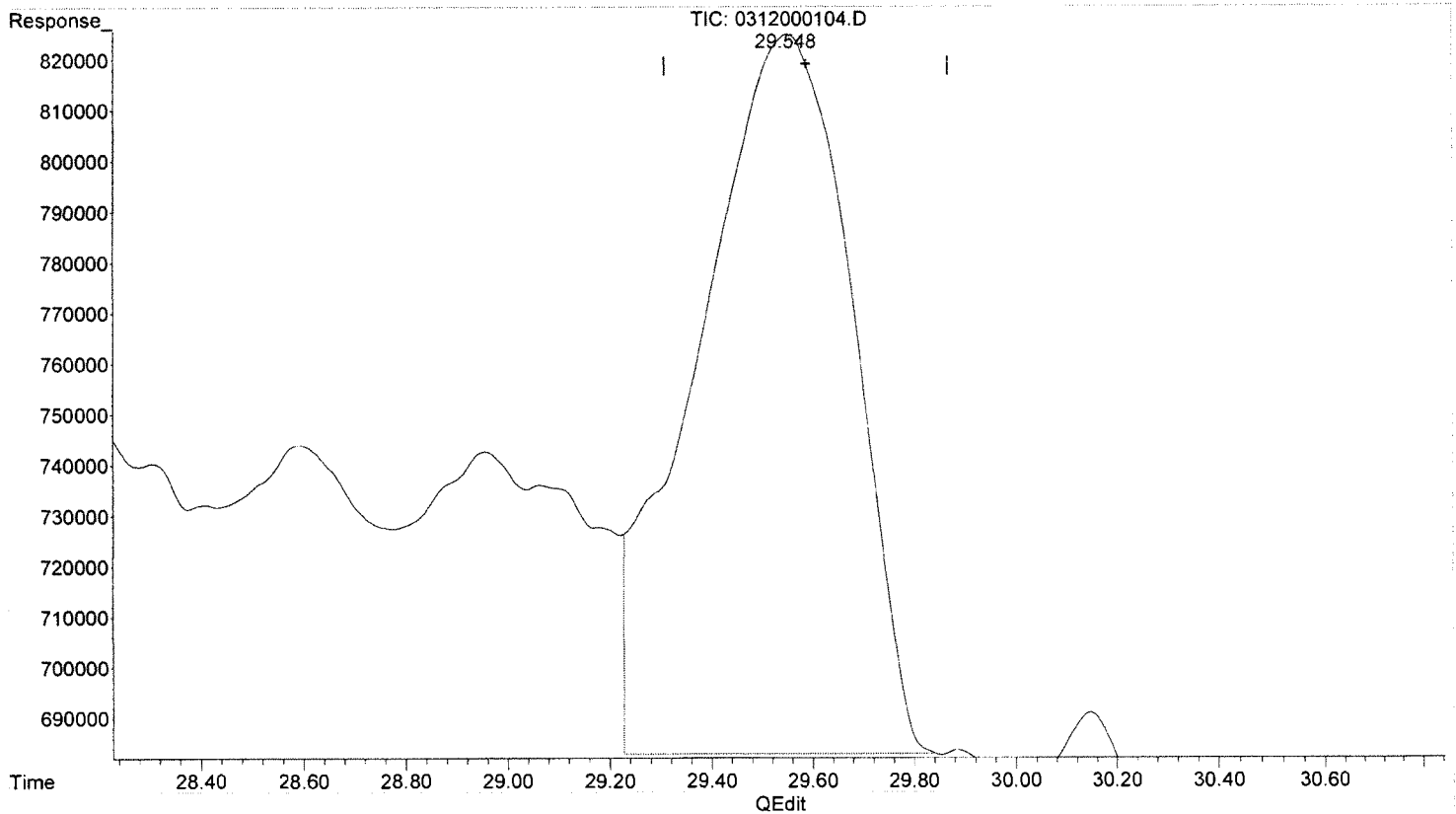
*Sf 3-17-15  
BL*

*M 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000104.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:22:55 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)  
29.548min 140.558 ug/L  
response 2990595

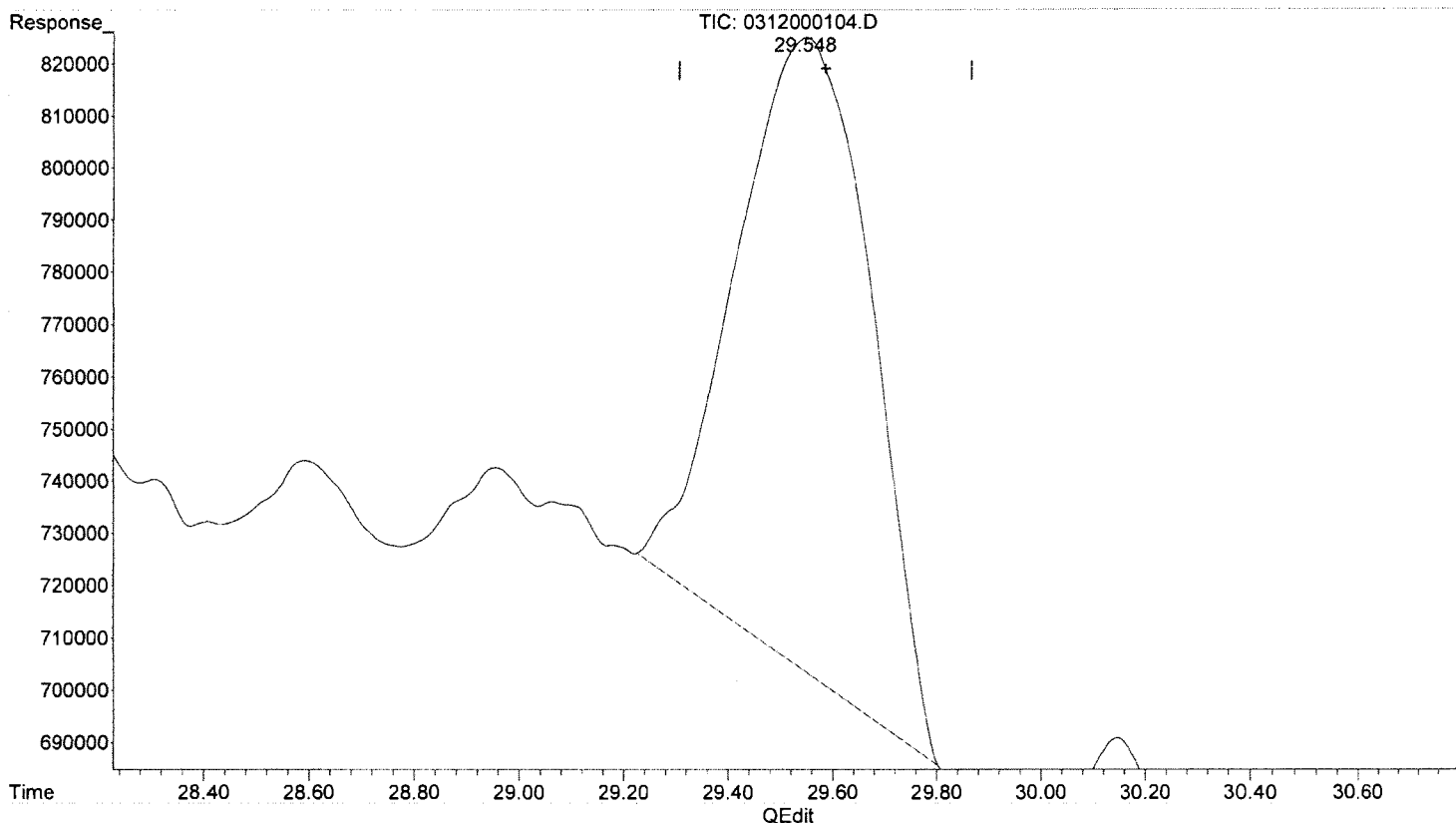
*SJ 3-17-15*

*MFL 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000104.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:22:55 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)  
29.548min 103.230 ug/L m  
response 2196393

*SJ 3-17-15*  
*BL*

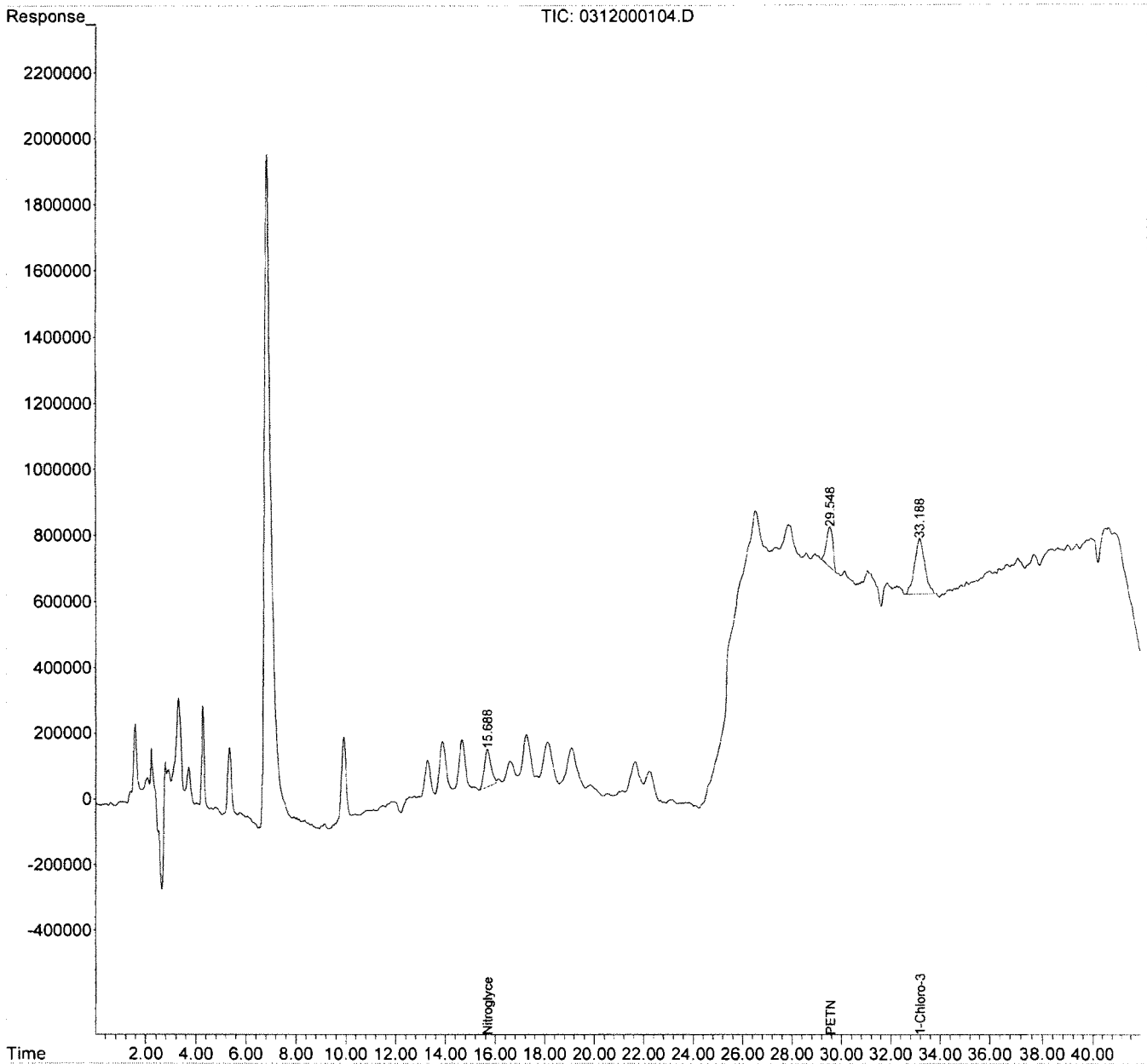
*MJL 3/24/15*



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000104.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 19:37:16  
Operator : SJ  
Sample : 14-OLC-01-52B 50PPB  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:33:08 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000105.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:46:58 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.188	8686748	114.684 ug/L
Target Compounds			
1) T Nitroglycerin	15.675	4077215	206.688 ug/L
2) T PETN	29.555	5949738	279.637 ug/L m

(f)=RT Delta > 1/2 Window

(m)=manual int.

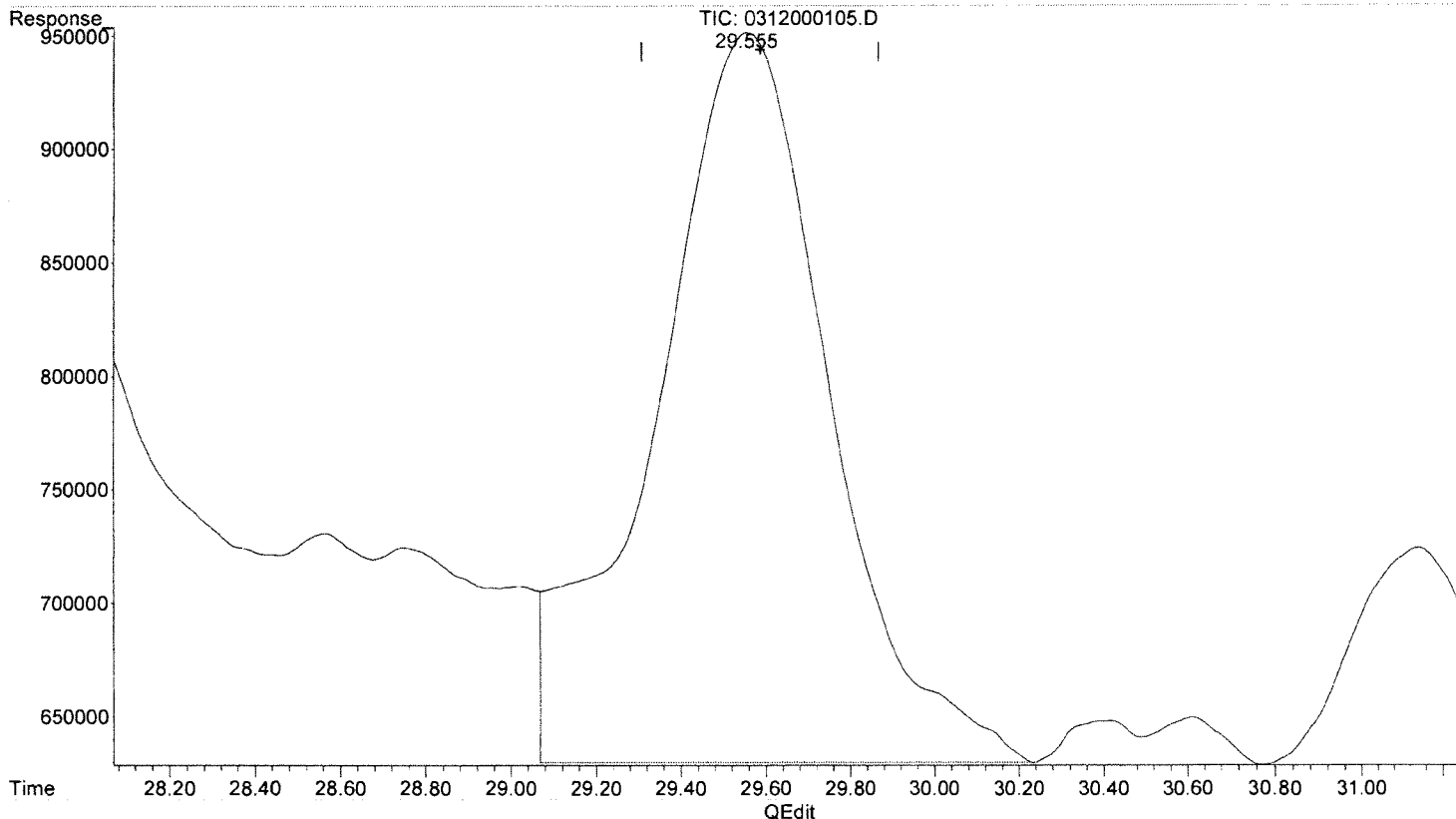
*SJ 3-17-15*

*M/L 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000105.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:22:58 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)  
29.555min 429.990 ug/L  
response 9148730

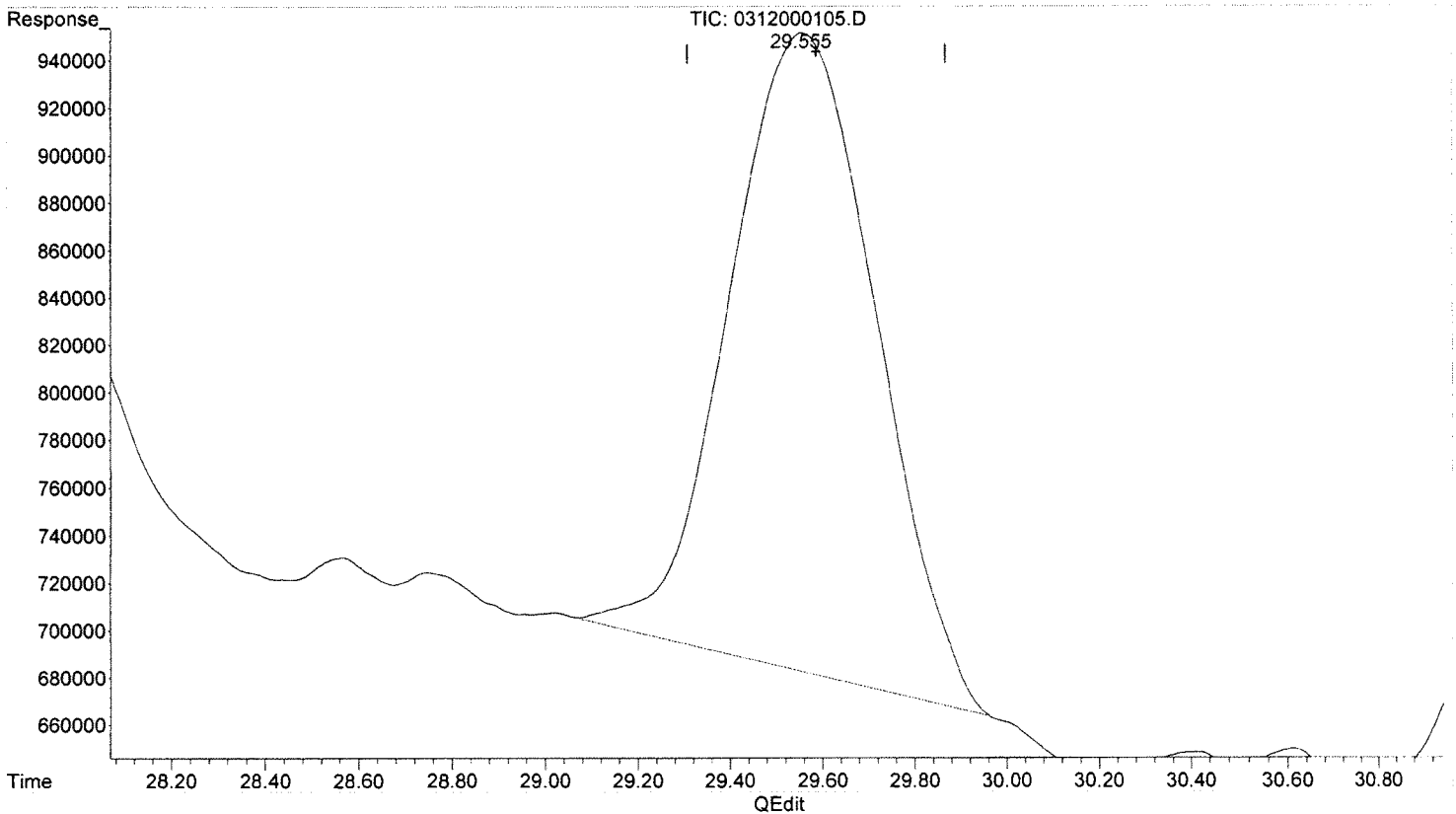
*SJ 3-17-15*

*MPL 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000105.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:33:55 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)  
29.555min 279.637 ug/L m  
response 5949738

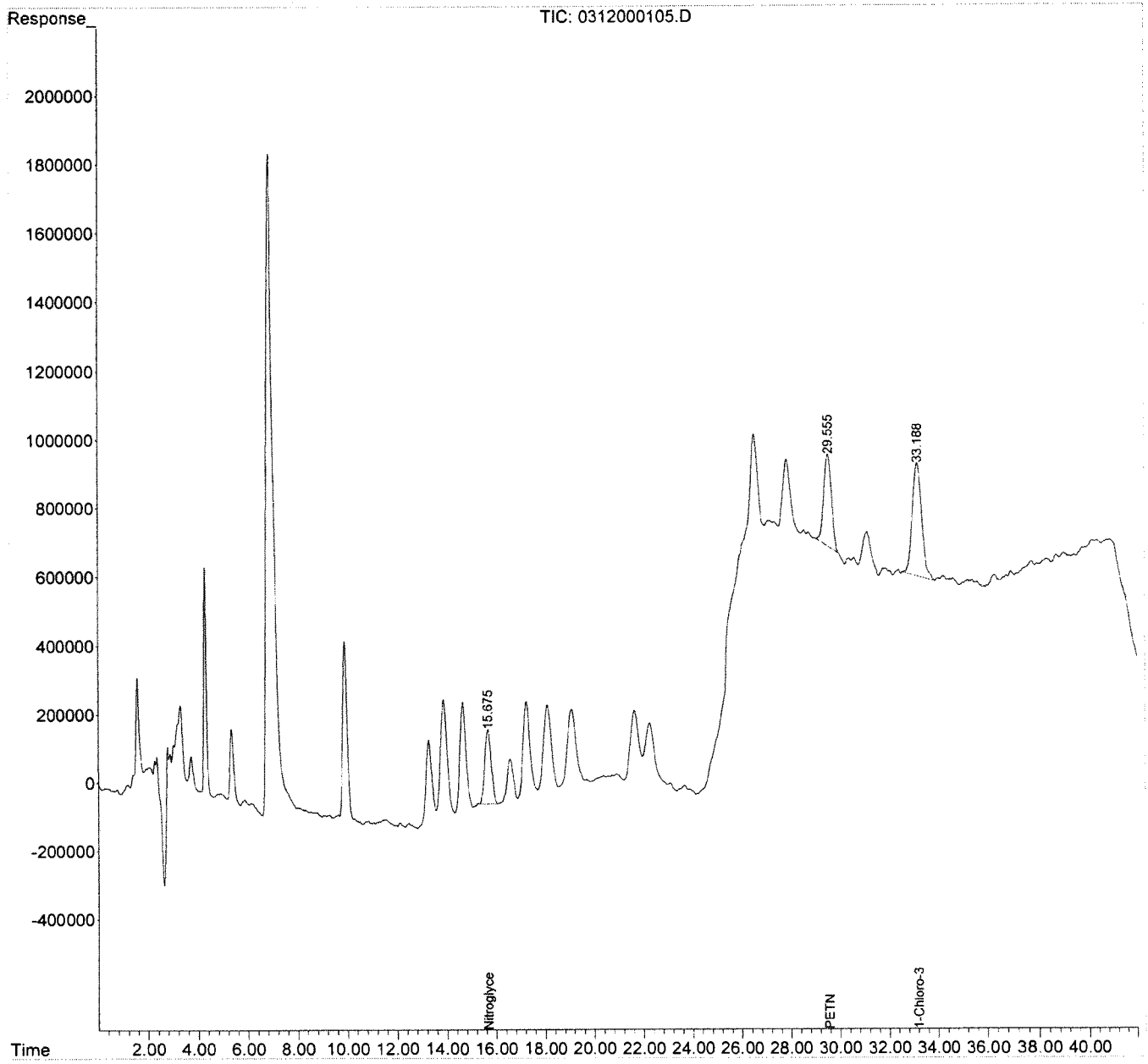
*SJ 3-17-15*  
*BL*

*MA 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000105.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 20:23:31  
Operator : SJ  
Sample : 14-OLC-01-52C 100PPB  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:46:58 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
 Data File : 0312000106.D  
 Signal(s) : DAD1B.ch  
 Acq On : 12-Mar-2015, 21:09:47  
 Operator : SJ  
 Sample : 14-OLC-01-52D 200PPB  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 15:23:00 2015  
 Quant Method : J:\LC10\Method\021615\_8330B@210.M  
 Quant Title : CAL13117  
 QLast Update : Tue Feb 24 12:56:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.228	14462556	190.938 ug/L
Target Compounds			
1) T Nitroglycerin	15.694	8160048	413.661 ug/L
2) T PETN	29.588	11252816	528.882 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

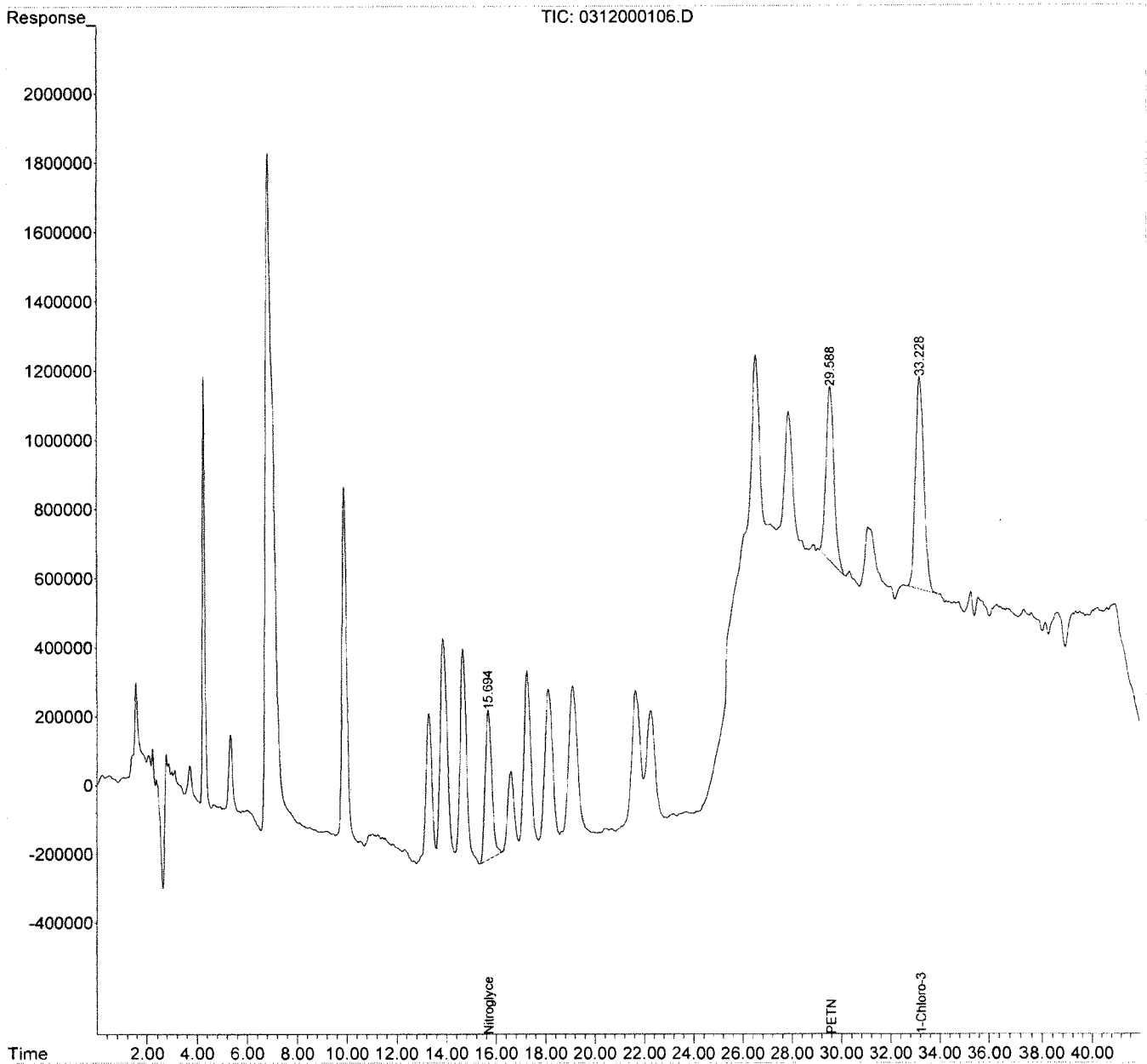
*SJ 3-17-15*

*ML 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000106.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 21:09:47  
Operator : SJ  
Sample : 14-OLC-01-52D 200PPB  
Misc :  
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:00 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
 Data File : 0312000107.D  
 Signal(s) : DAD1B.ch  
 Acq On : 12-Mar-2015, 21:56:04  
 Operator : SJ  
 Sample : 14-OLC-01-52E 500PPB  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 15:23:02 2015  
 Quant Method : J:\LC10\Method\021615\_8330B@210.M  
 Quant Title : CAL13117  
 QLast Update : Tue Feb 24 12:56:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.220	121844804	1608.623 ug/L
Target Compounds			
1) T Nitroglycerin	15.680	61326402	3108.845 ug/L
2) T PETN	29.587	91805717	4314.864 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

*SJ 3-17-15*

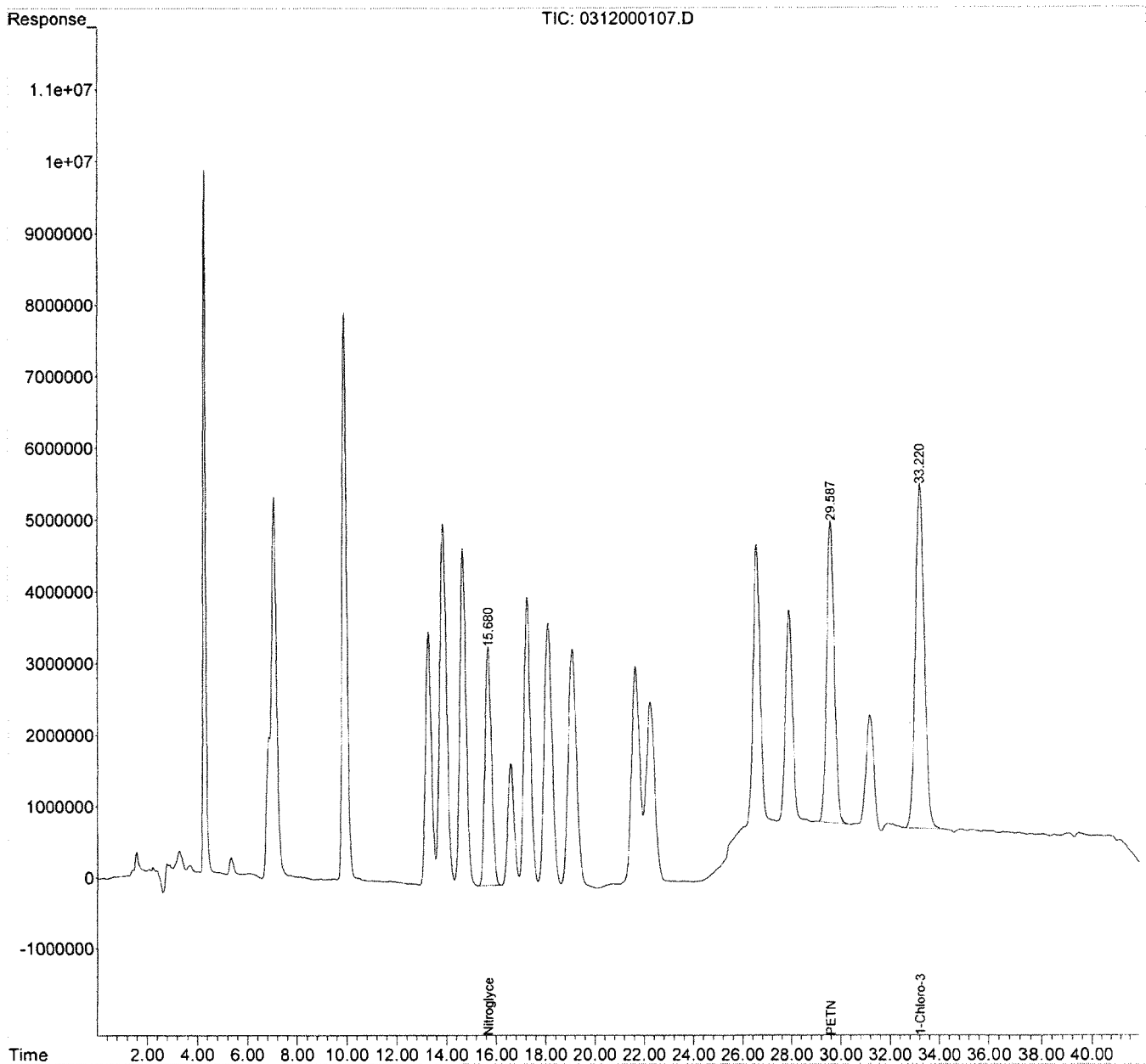
*MW 3/24/15*



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000107.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 21:56:04  
Operator : SJ  
Sample : 14-OLC-01-52E 500PPB  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:02 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000108.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:04 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.220	82081695	1083.662 ug/L
Target Compounds			
1) T Nitroglycerin	15.673	41477297	2102.626 ug/L
2) T PETN	29.587	61655990	2897.828 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

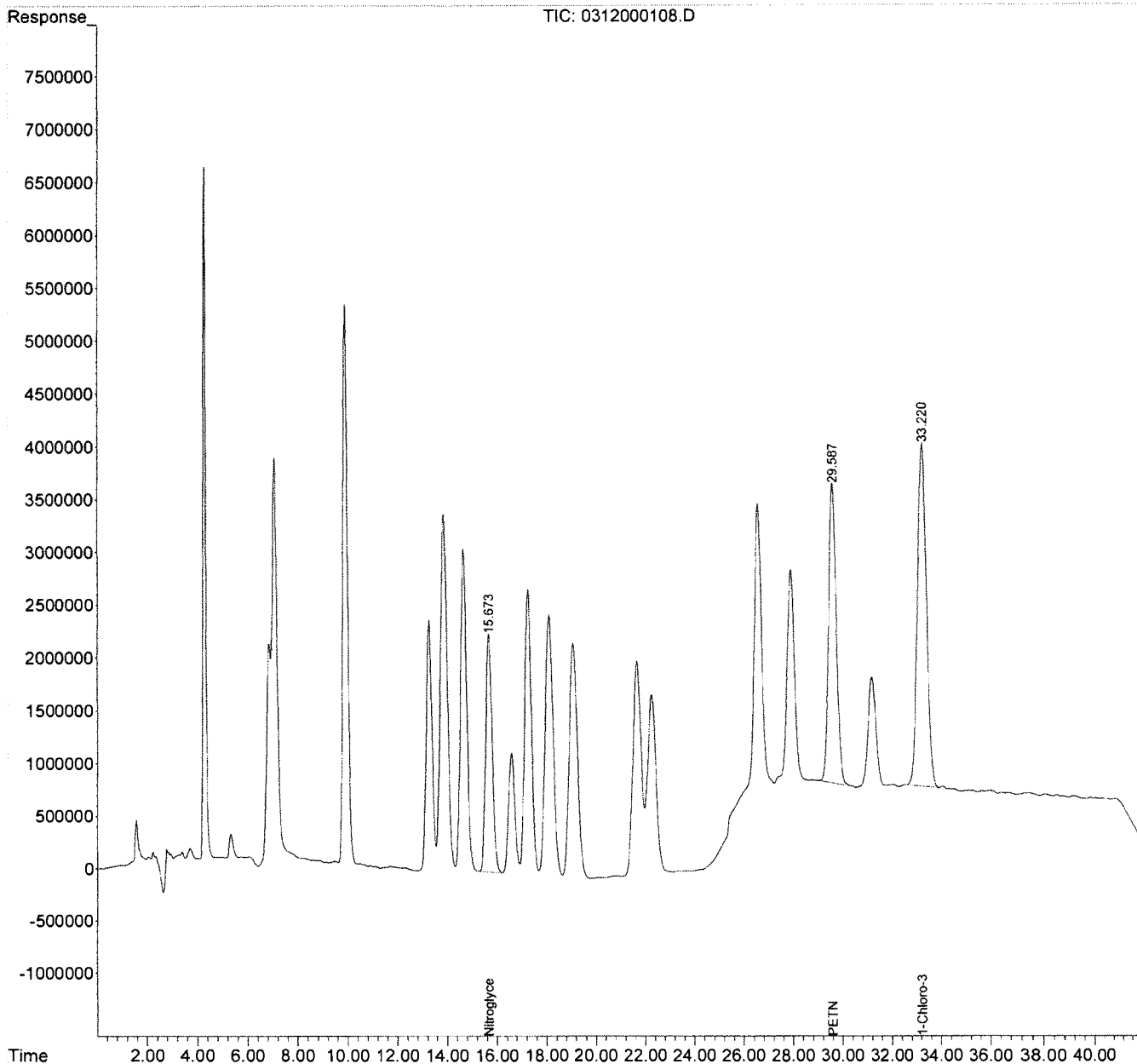
*SJ 3-17-15*

*MW 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000108.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 22:42:21  
Operator : SJ  
Sample : 14-OLC-01-52F 1000PPB  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:04 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
 Data File : 0312000109.D  
 Signal(s) : DAD1B.ch  
 Acq On : 12-Mar-2015, 23:28:37  
 Operator : SJ  
 Sample : 14-OLC-01-52G 2000PPB  
 Misc :  
 ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 15:23:06 2015  
 Quant Method : J:\LC10\Method\021615\_8330B@210.M  
 Quant Title : CAL13117  
 QLast Update : Tue Feb 24 12:56:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.227	160118262	2113.919 ug/L
Target Compounds			
1) T Nitroglycerin	15.668	80260628	4068.685 ug/L
2) T PETN	29.587	120325159	5655.276 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

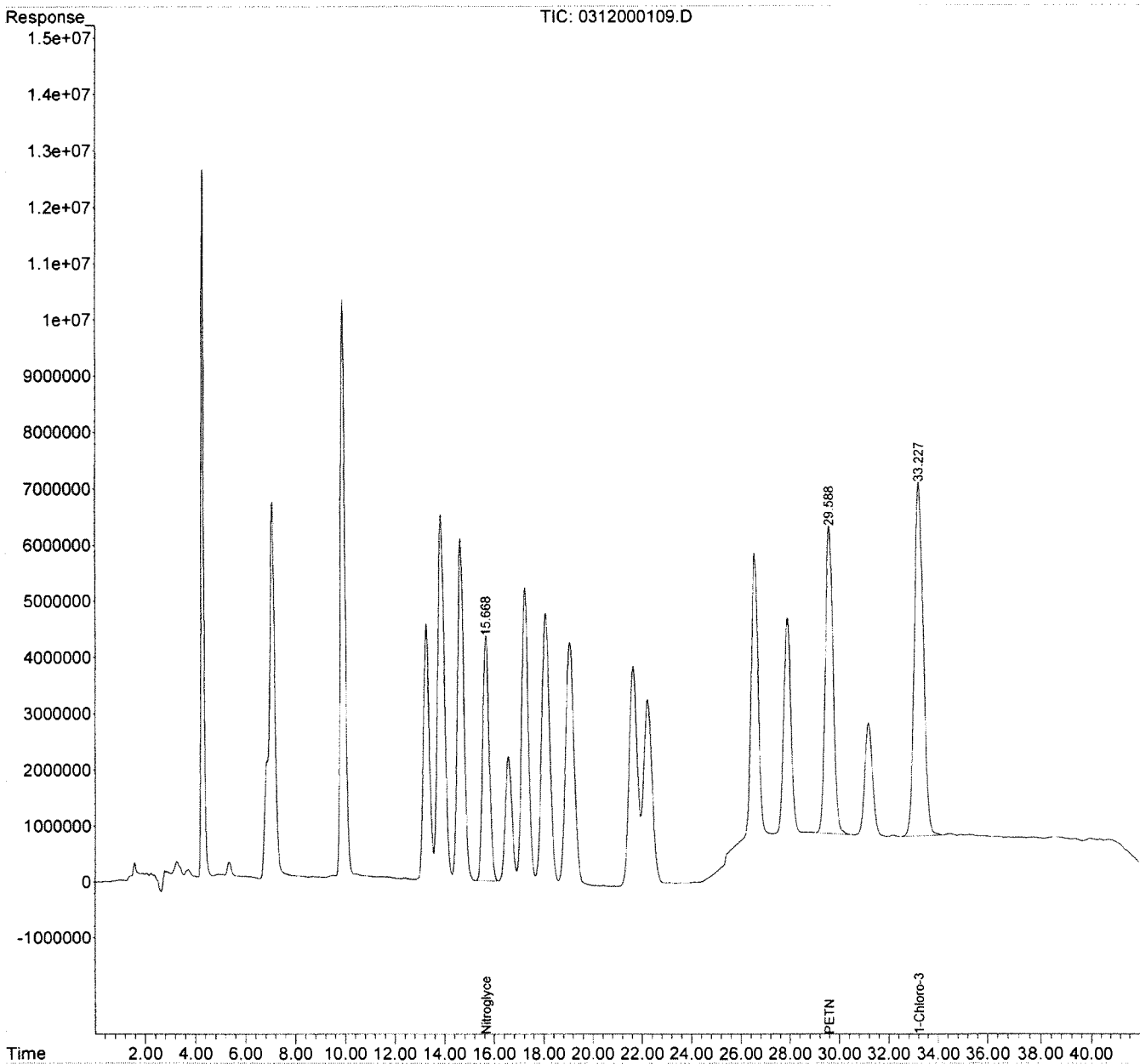
*SJ 3-17-15*

*SJ 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000109.D  
Signal(s) : DAD1B.ch  
Acq On : 12-Mar-2015, 23:28:37  
Operator : SJ  
Sample : 14-OLC-01-52G 2000PPB  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:06 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
 Data File : 0312000110.D  
 Signal(s) : DAD1B.ch  
 Acq On : 13-Mar-2015, 00:14:52  
 Operator : SJ  
 Sample : 14-OLC-01-52H 5000PPB  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 16 15:23:09 2015  
 Quant Method : J:\LC10\Method\021615\_8330B@210.M  
 Quant Title : CAL13117  
 QLast Update : Tue Feb 24 12:56:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.235	420992525	5558.041 ug/L
Target Compounds			
1) T Nitroglycerin	15.675	212186766	10756.472 ug/L
2) T PETN	29.601	317614272	14927.855 ug/L

(f)=RT Delta > 1/2 Window

(m)=manual int.

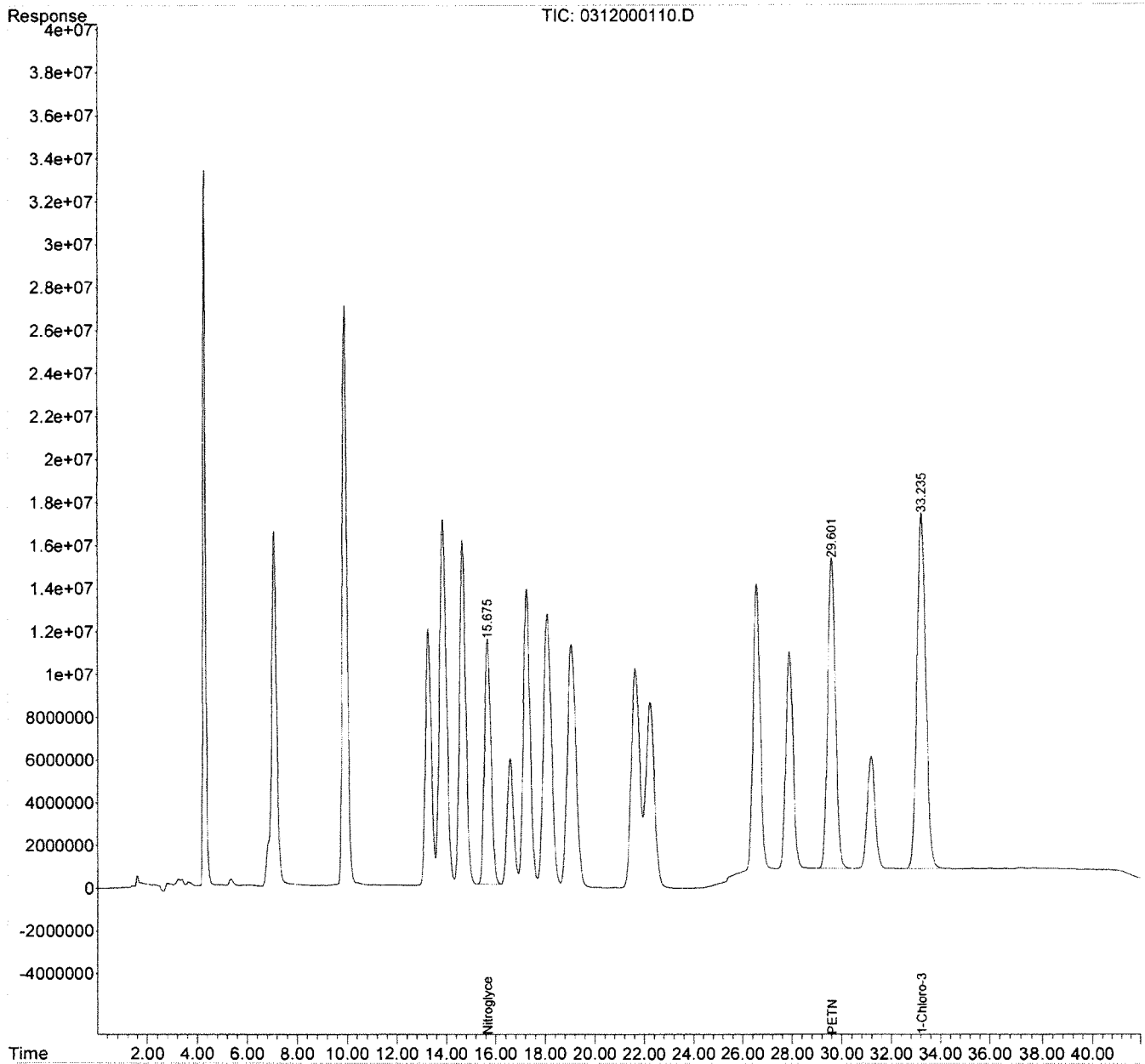
*SJ 3-17-15*

*ml 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000110.D  
Signal(s) : DAD1B.ch  
Acq On : 13-Mar-2015, 00:14:52  
Operator : SJ  
Sample : 14-OLC-01-52H 5000PPB  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:09 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000111.D  
Signal(s) : DAD1B.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:11 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.215	840789539	11100.299 ug/L
Target Compounds			
1) T Nitroglycerin	15.675	420895871	21336.650 ug/L
2) T PETN	29.575	630603443	29638.330 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

*SJ 3-17-15*

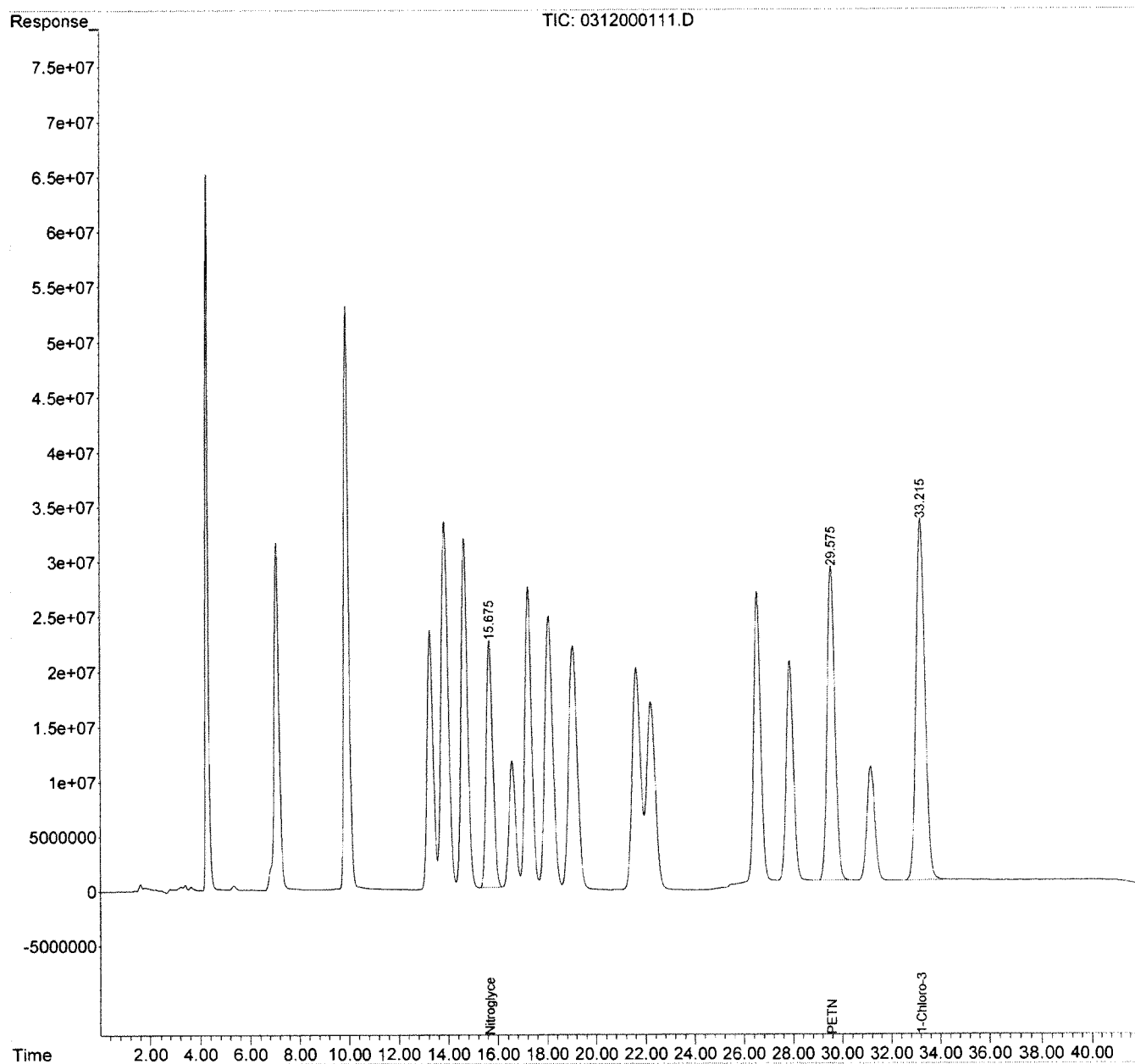
*ML 3/24/15  
ML 3/24/15*



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000111.D  
Signal(s) : DAD1B.ch  
Acq On : 13-Mar-2015, 01:01:10  
Operator : SJ  
Sample : 14-OLC-01-52I 10000PPB  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:11 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000112.D  
Signal(s) : DAD1B.ch  
Acq On : 13-Mar-2015, 01:47:26  
Operator : SJ  
Sample : 14-OLC-01-52J 20000PPB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:13 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.235	1599593630	21118.207 ug/L
Target Compounds			
1) T Nitroglycerin	15.675	800069087	40558.235 ug/L
2) T PETN	29.588	1202088749	56498.110 ug/L
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

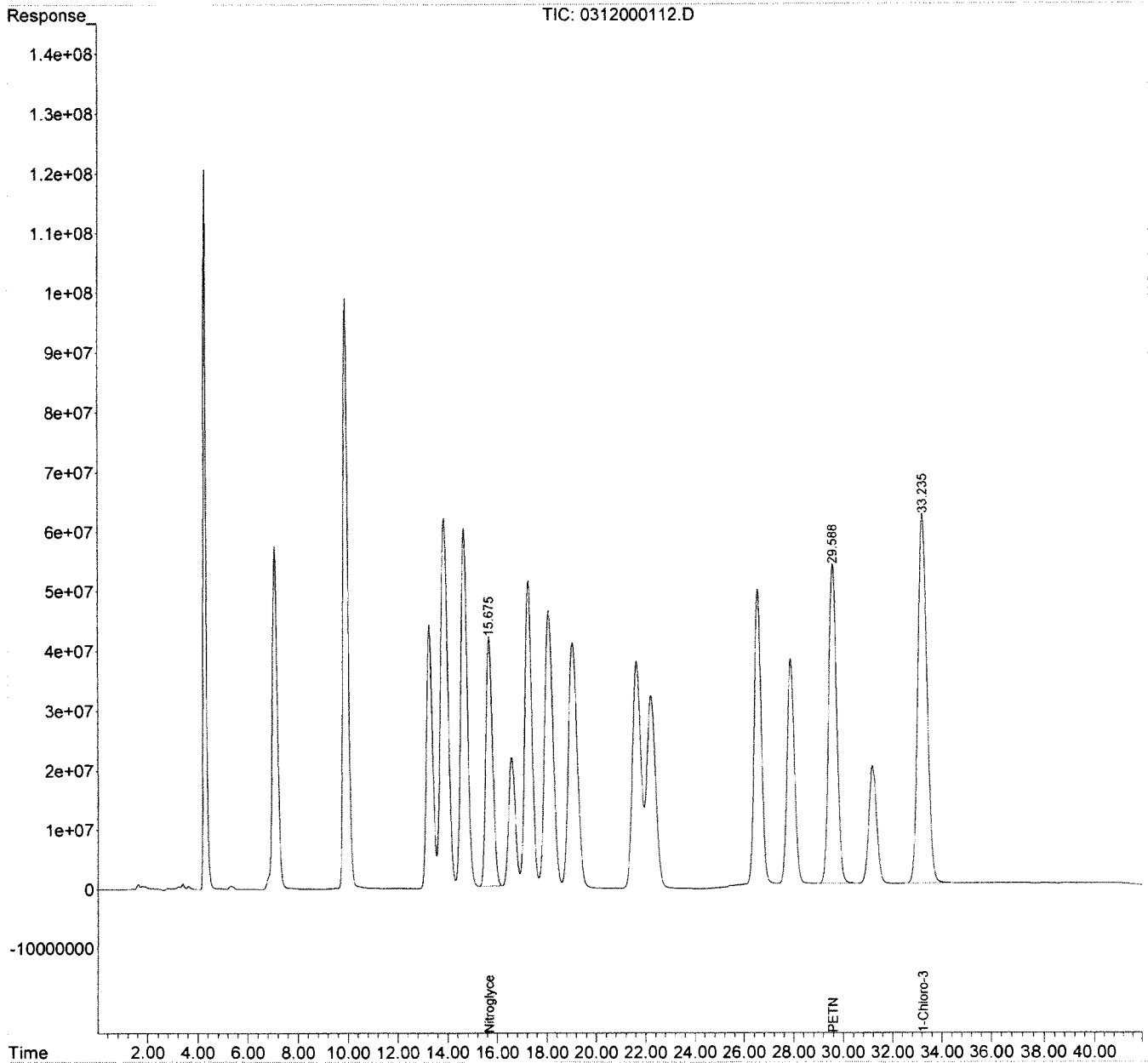
*SJ 3-17-15*

*M 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000112.D  
Signal(s) : DAD1B.ch  
Acq On : 13-Mar-2015, 01:47:26  
Operator : SJ  
Sample : 14-OLC-01-52J 20000PPB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 15:23:13 2015  
Quant Method : J:\LC10\Method\021615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Tue Feb 24 12:56:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000113.D  
Signal(s) : DAD1B.ch  
Acq On : 13-Mar-2015, 02:33:41  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 16:00:25 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L d
2) T PETN	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window

(m)=manual int.

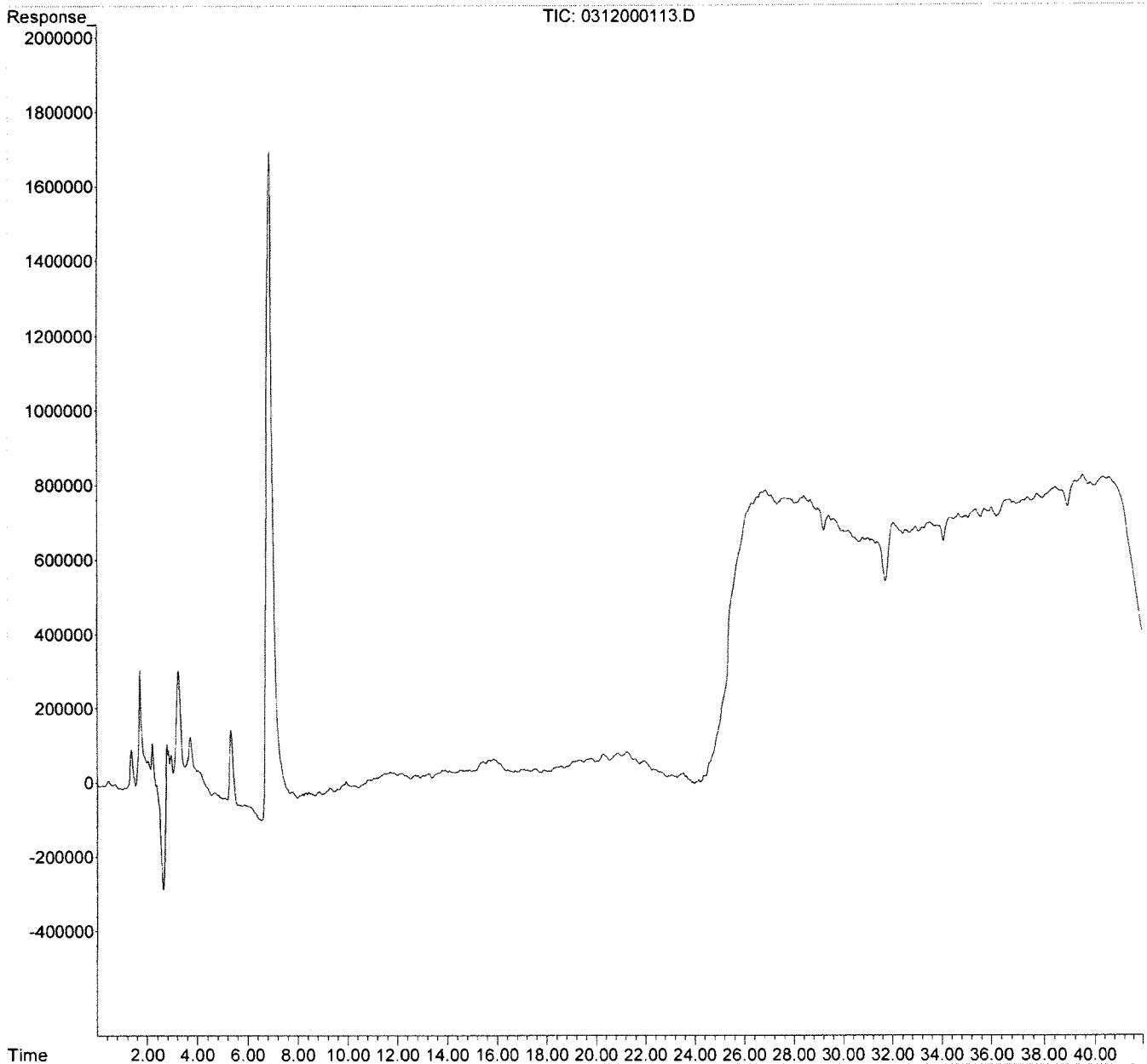
*SJ 3.17.15*

*ref 3/24/15*

Data Path : J:\LC10\Data\031215XL\210\  
Data File : 0312000113.D  
Signal(s) : DAD1B.ch  
Acq On : 13-Mar-2015, 02:33:41  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 16 16:00:25 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13117  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031715XL\210\  
Data File : 0317000103.D  
Signal(s) : DAD1B.ch  
Acq On : 17-Mar-2015, 12:07:12  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:45:38 2015  
Quant Method : J:\LC10\Method\031215\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D. ug/L d
Target Compounds			
1) T Nitroglycerin	0.000	0	N.D. ug/L
2) T PETN	0.000	0	N.D. ug/L d
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

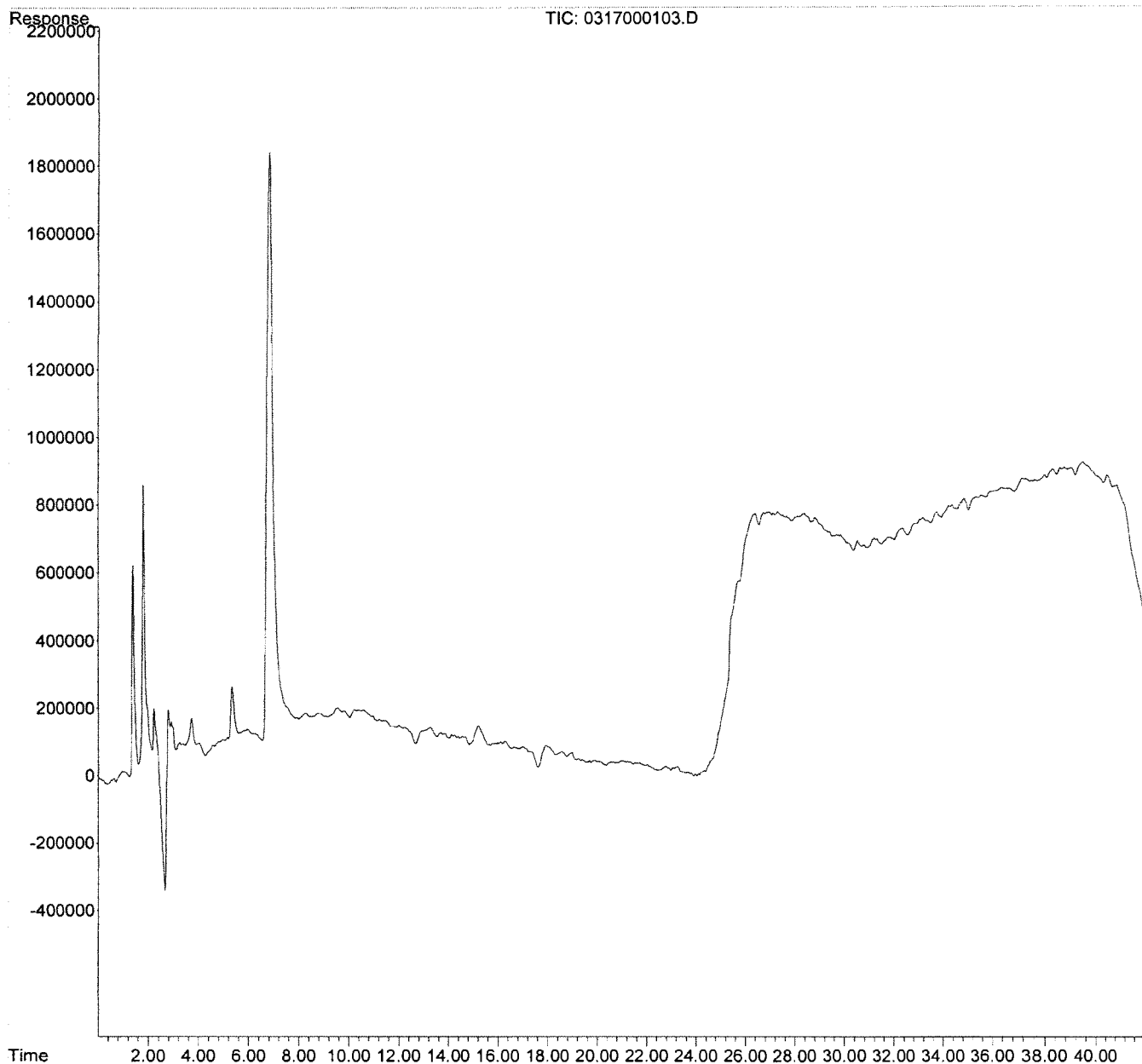
*SJ 3-17-15*

*MH 3/24/15*

Data Path : J:\LC10\Data\031715XL\210\  
Data File : 0317000103.D  
Signal(s) : DAD1B.ch  
Acq On : 17-Mar-2015, 12:07:12  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:45:38 2015  
Quant Method : J:\LC10\Method\031215\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031715XL\210\  
 Data File : 0317000104.D  
 Signal(s) : DAD1B.ch  
 Acq On : 17-Mar-2015, 12:53:28  
 Operator : SJ  
 Sample : 14-OLC-01-52K 1000PPB ICV  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 17 14:45:59 2015  
 Quant Method : J:\LC10\Method\031215\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Mon Mar 16 15:51:15 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.094f	86254836	1039.445 ug/L
Target Compounds			
1) T Nitroglycerin	15.628	39831185	961.523 ug/L
2) T PETN	29.488	56774905	970.106 ug/L m
-----			

(f)=RT Delta > 1/2 Window

(m)=manual int.

*SJ 3-17-15*

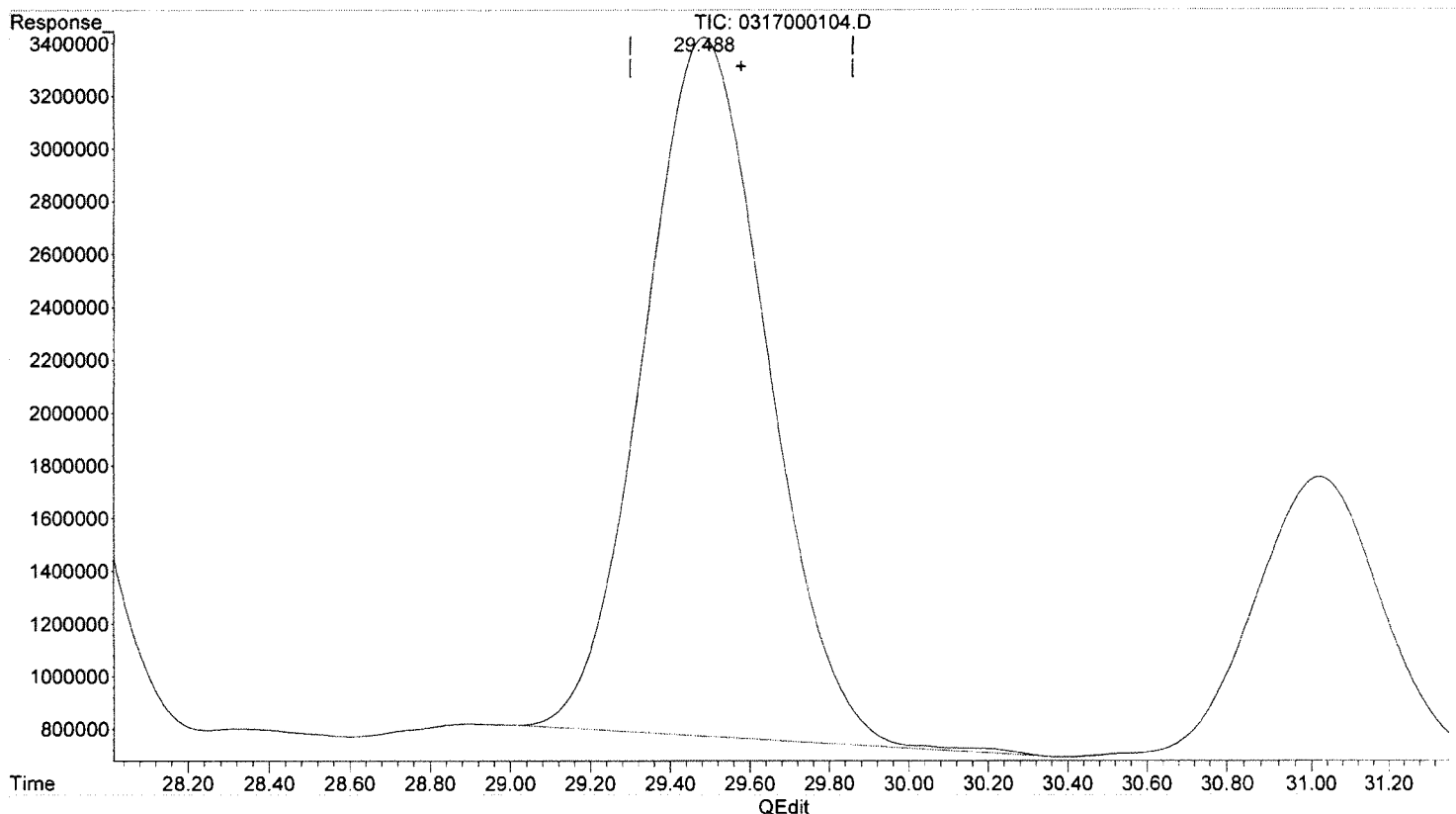
*M/3/24/15*



Data Path : J:\LC10\Data\031715XL\210\  
Data File : 0317000104.D  
Signal(s) : DAD1B.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:45:17 2015  
Quant Method : J:\LC10\Method\031215\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)  
29.488min 978.649 ug/L  
response 57274859

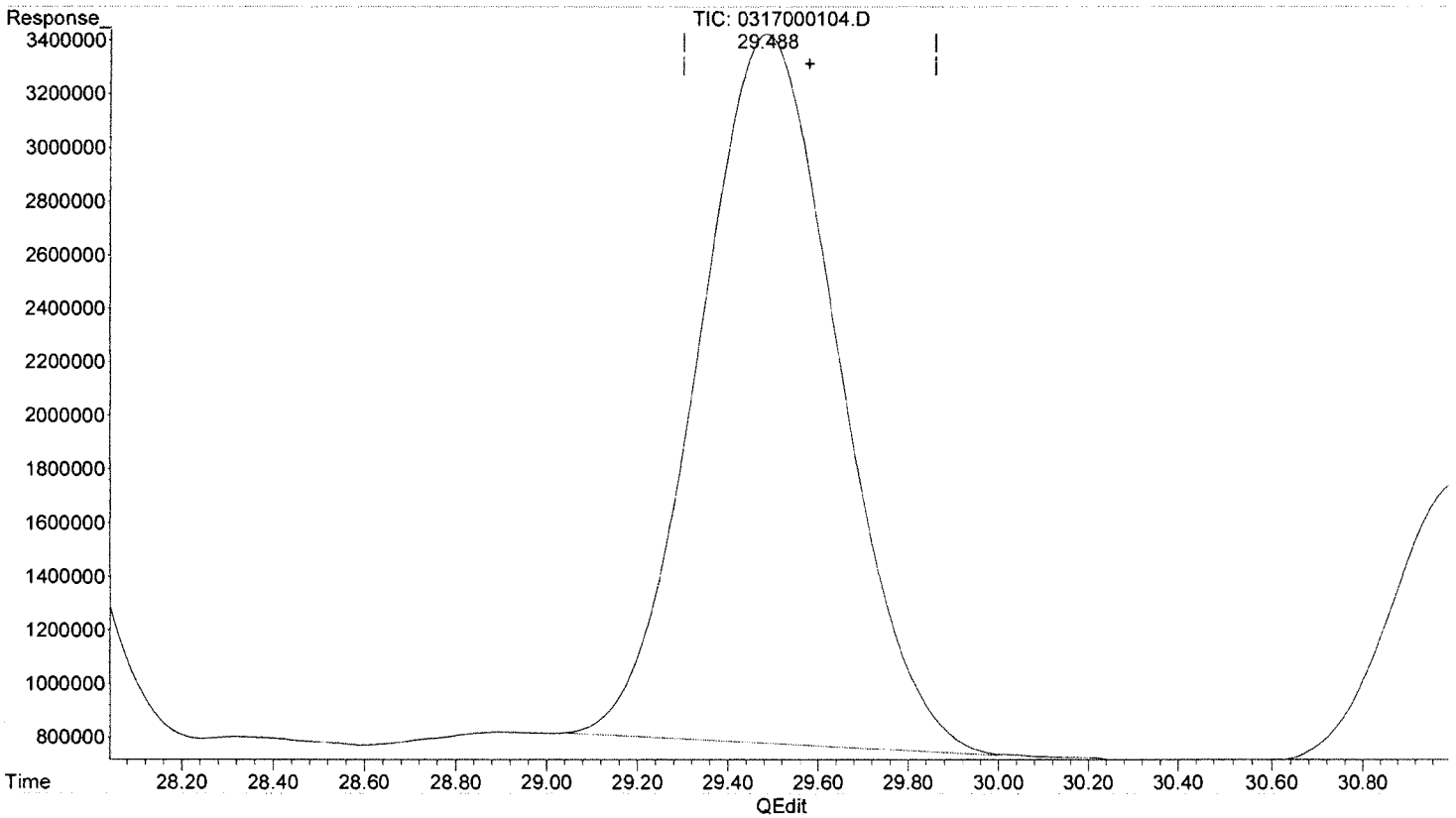
*SJ 3-17-15*

*MJL 3/24/15*

Data Path : J:\LC10\Data\031715XL\210\  
Data File : 0317000104.D  
Signal(s) : DAD1B.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:45:17 2015  
Quant Method : J:\LC10\Method\031215\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)  
29.488min 970.106 ug/L m  
response 56774905

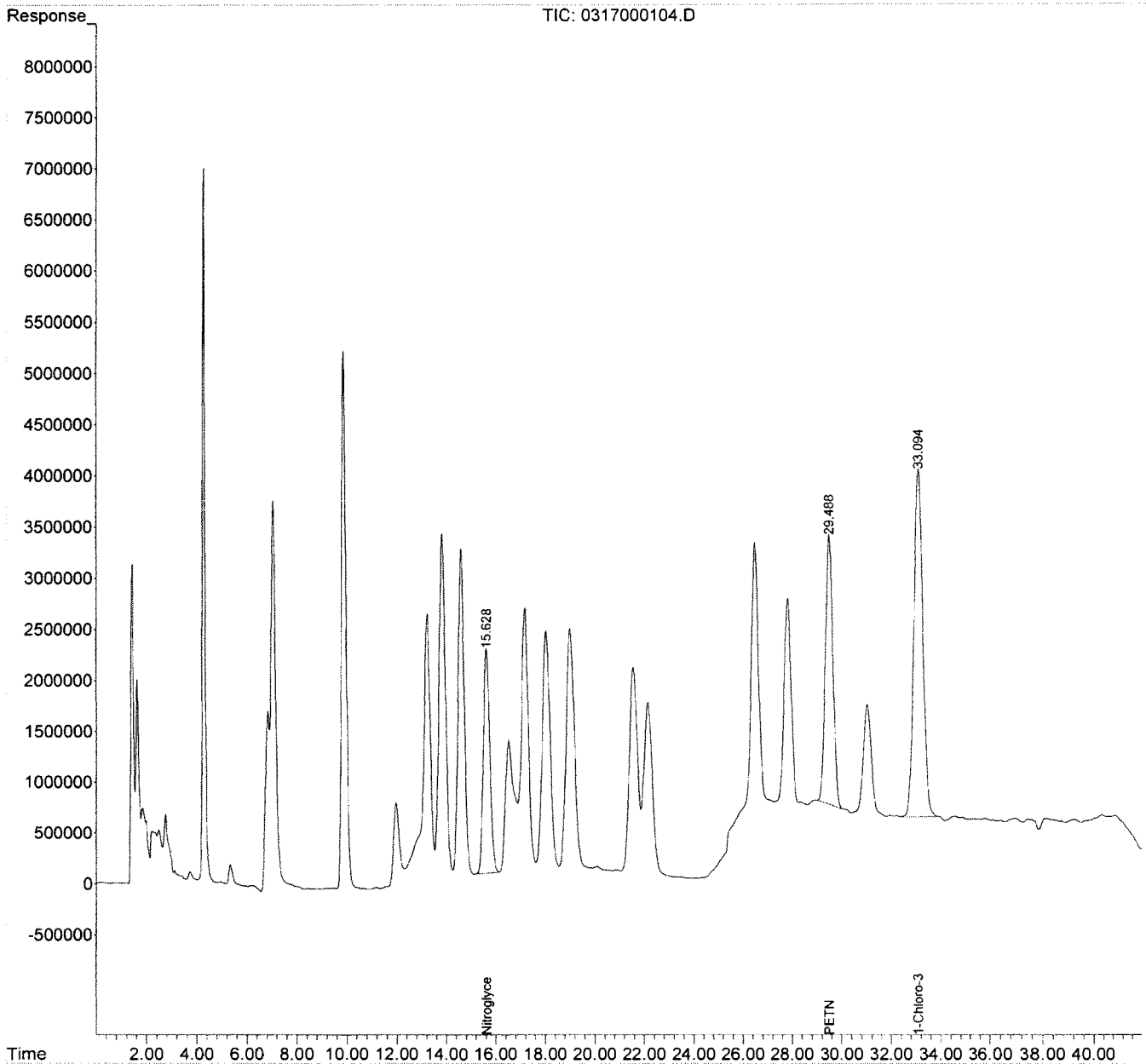
*SJ 3-17-15*  
*BL*

*MFL 3/24/15*

Data Path : J:\LC10\Data\031715XL\210\  
Data File : 0317000104.D  
Signal(s) : DAD1B.ch  
Acq On : 17-Mar-2015, 12:53:28  
Operator : SJ  
Sample : 14-OLC-01-52K 1000PPB ICV  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:45:59 2015  
Quant Method : J:\LC10\Method\031215\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Data Path : J:\LC10\Data\031715XL\210\  
 Data File : 0317000105.D  
 Signal(s) : DAD1B.ch  
 Acq On : 17-Mar-2015, 13:39:44  
 Operator : SJ  
 Sample : IB  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Mar 17 14:46:21 2015  
 Quant Method : J:\LC10\Method\031215\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Mon Mar 16 15:51:15 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L d
-----				

(f)=RT Delta > 1/2 Window

(m)=manual int.

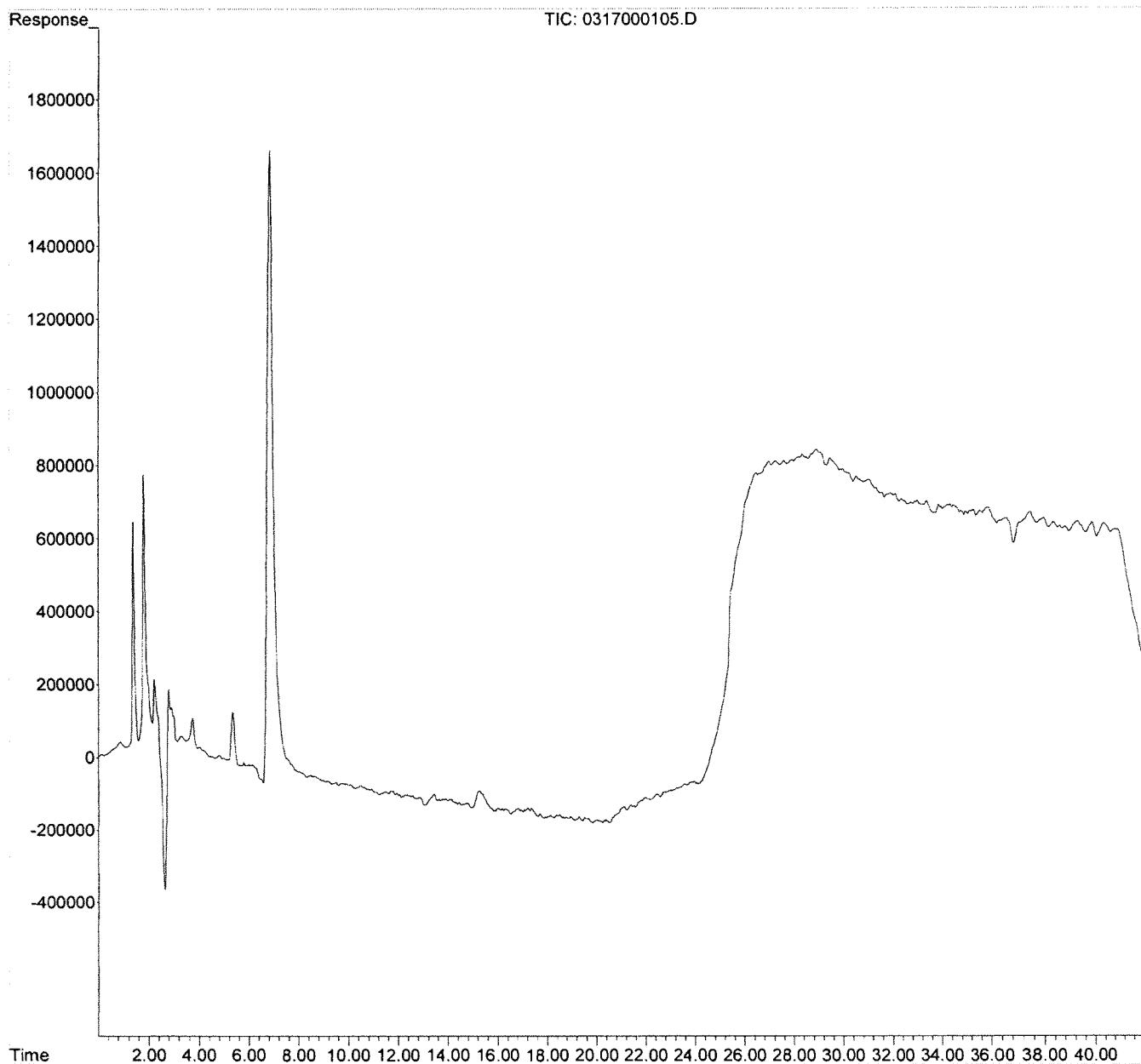
*SJ 3-17-15*

*mgl 3/24/15*

Data Path : J:\LC10\Data\031715XL\210\  
Data File : 0317000105.D  
Signal(s) : DAD1B.ch  
Acq On : 17-Mar-2015, 13:39:44  
Operator : SJ  
Sample : IB  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Mar 17 14:46:21 2015  
Quant Method : J:\LC10\Method\031215\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Mon Mar 16 15:51:15 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



Date: 4/21/2015



ICAL Date: 8/19/2014

CAL 13500 (210)

By: cfs

ICAL ID: CAL 13504 (254)

Stealth ID: NA

LC8 - Agilent 1260

LIMS ID: NA

2nd Review: *QA 5/2.15*

Column: Ultra Aromax SN: 14080496M

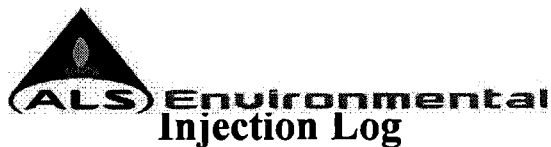
Current BP: 115

Mobile Phases A: MeOH Lot#: 54212 B: ACN Lot#: 54296 C: H<sub>2</sub>O Lot#: 54309 D: NA

	Sample Name	File Name	Method	Dilution	R	Comments
1	Primer	0421000101	8330BXC_022813.M	NA		NR Tetryl this batch
2	IB	0421000102	8330BXC_022813.M	NA	X	
3	14-OLC-01-58J 1PPM	0421000103	8330BXC_022813.M	NA	X	Q
4	KWG1503332-4 MB	0421000104	8330BXC_022813.M	NA	X	
5	KWG1503332-3 LCS	0421000105	8330BXC_022813.M	NA		NR -- not needed
6	K1503815-001 ✓	0421000106	8330BXC_022813.M	NA	X	
7	K1503815-002	0421000107	8330BXC_022813.M	NA	X	
8	K1503815-003	0421000108	8330BXC_022813.M	NA	X	
9	K1503815-004	0421000109	8330BXC_022813.M	NA	X	
10	K1503815-005	0421000110	8330BXC_022813.M	NA	X	
11	K1503815-006	0421000111	8330BXC_022813.M	NA	X	
12	K1503815-007	0421000112	8330BXC_022813.M	NA	X	
13	K1503815-008	0421000113	8330BXC_022813.M	NA	X	
14	Test	0421000114	8330BXC_022813.M	NA	X	NR -- info only
15	14-OLC-01-58J 1PPM	0421000115	8330BXC_022813.M	NA	X	Q
16	IB	0421000116	8330BXC_022813.M	NA	X	
17	K1503815-009	0421000117	8330BXC_022813.M	NA	X	
18	K1503815-010	0421000118	8330BXC_022813.M	NA	X	
19	K1503815-011	0421000119	8330BXC_022813.M	NA	X	
20	14-OLC-01-58J 1PPM	0421000120	8330BXC_022813.M	NA	X	
21	IB	0421000121	8330BXC_022813.M	NA	X	
22						
23						
24						
25						
26						
27						
28						
29						
30						

Q = RT update

Date: 4/26/2015



ICAL Date: 8/19/2014

CAL 13500 (210)

By: cfs

ICAL ID: CAL 13504 (254)

Stealth ID: NA

LC8 - Agilent 1260

LIMS ID: NA

2nd Review: QZ 5.12.15

Column: Ultra Aromax SN: 14080496M

Current BP: 115

Mobile Phases A: MeOH Lot#: 54212 B: ACN Lot#: 54296 C: H<sub>2</sub>O Lot#: 54309 D: NA

Sample Name	File Name	Method	Dilution	R	Comments
1 Primer	0426000101	8330BXC_022813.M	NA		NA - Tetra 1
2 IB	0426000102	8330BXC_022813.M	NA	X	
3 14-OLC-01-58K 1PPM	0426000103	8330BXC_022813.M	NA	X	Q
4 KWG1503333-4 MB	0426000104	8330BXC_022813.M	NA	X	
5 K1504001-007	0426000105	8330BXC_022813.M	NA	X	dilute + rerun ROx
6 K1504001-001	0426000106	8330BXC_022813.M	NA	X	↓
7 K1504001-002	0426000107	8330BXC_022813.M	NA	X	
8 K1504001-003	0426000108	8330BXC_022813.M	NA	X	
9 K1504001-004	0426000109	8330BXC_022813.M	NA	X	
10 K1504001-005	0426000110	8330BXC_022813.M	NA	X	
11 14-OLC-01-58K 1PPM	0426000111	8330BXC_022813.M	NA	X	Q
12 IB	0426000112	8330BXC_022813.M	NA	X	
13 K1504001-006	0426000113	8330BXC_022813.M	NA	X	rerun Tetra 1
14 K1504002-001	0426000114	8330BXC_022813.M	NA	X	
15 K1504002-002	0426000115	8330BXC_022813.M	NA	X	
16 K1504002-003	0426000116	8330BXC_022813.M	NA	X	
17 K1504002-004	0426000117	8330BXC_022813.M	NA	X	
18 K1504002-005	0426000118	8330BXC_022813.M	NA	X	
19 K1504002-006	0426000119	8330BXC_022813.M	NA	X	
20 K1504002-007	0426000120	8330BXC_022813.M	NA	X	
21 14-OLC-01-58K 1PPM	0426000121	8330BXC_022813.M	NA	X	
22 IB	0426000122	8330BXC_022813.M	NA	X	
23 IB	0426000123	8330BXC_022813.M	NA		
24 Clean	0426000124	8330Cleanup.M	NA		
25 Clean	0426000125	8330Cleanup.M	NA		
26					
27					
28					
29					
30					

Q = RT update

Date: 4/23/2015



ICAL Date: 3/16/2015  
3/12/2015  
CAL 13891 (254)  
ICAL ID: CAL 13892 (210)

By: cfs

KWG1503922 (210)  
Stealth ID: KWG1503923 (254)

### Injection Log LC10 - Agilent 1260

LIMS ID: 441432

2nd Review: *QAS 5-12-15*

Column: Phenomenex Synergi Hydro-RP 80A SN 759076-19

Current BP: 200

Mobile Phases A: MeOH Lot#: 54212 B: ACN Lot#: 54296 C: H<sub>2</sub>O Lot#: 55007 D: NA

	Sample Name	File Name	Method	Dilution	R	Comments
1	PRIMER	0423000201	8330BX.M	NA		
2	IB	0423000202	8330BX_WCLEAN	NA		
3	14-OLC-01-58K 1ppm	0423000203	8330BX_WCLEAN	NA	X	Q
4	KWG1503332-4 MB	0423000204	8330BX_WCLEAN	NA	X	3815
5	KWG1503332-3 LCS	0423000205	8330BX_WCLEAN	NA	X	
6	K1503815-001	0423000206	8330BX_WCLEAN	NA	X	
7	K1503815-002	0423000207	8330BX_WCLEAN	NA	X	
8	K1503815-003	0423000208	8330BX_WCLEAN	NA	X	
9	K1503815-004	0423000209	8330BX_WCLEAN	NA	X	
10	K1503815-005	0423000210	8330BX_WCLEAN	NA	X	
11	K1503815-006	0423000211	8330BX_WCLEAN	NA	X	
12	K1503815-007	0423000212	8330BX_WCLEAN	NA	X	
13	K1503815-008	0423000213	8330BX_WCLEAN	NA	X	
14	14-OLC-01-58K 1ppm	0423000214	8330BX_WCLEAN	NA	X	Q NA-retry1
15	IB	0423000215	8330BX_WCLEAN	NA	X	
16	K1503815-009	0423000216	8330BX_WCLEAN	NA	X	
17	K1503815-010	0423000217	8330BX_WCLEAN	NA	X	
18	K1503815-011	0423000218	8330BX_WCLEAN	NA	X	
	K1503815-011 MS	0423000219	8330BX_WCLEAN	NA	X	
	K1503815-011 DMS	0423000220	8330BX_WCLEAN	NA	X	
	14-OLC-01-58K 1ppm	0423000221	8330BX_WCLEAN	NA	X	Q
	IB	0423000222	8330BX_WCLEAN	NA	X	
	KWG1503333-4 MB	0423000223	8330BX_WCLEAN	NA	X	4001 4002 NR-210
	KWG1503333-3 LCS	0423000224	8330BX_WCLEAN	NA	X	
	K1504001-007	0423000225	8330BX_WCLEAN	NA	X	
	K1504001-007 MS	0423000226	8330BX_WCLEAN	NA	X	
	K1504001-007 DMS	0423000227	8330BX_WCLEAN	NA	X	
	K1504001-001	0423000228	8330BX_WCLEAN	NA	X	
	K1504001-002	0423000229	8330BX_WCLEAN	NA	X	
	K1504001-003	0423000230	8330BX_WCLEAN	NA	X	

Q = RT update





Date: 5/4/2015



ICAL Date: 3/16/2015  
3/12/2015  
CAL 13891 (254)  
ICAL ID: CAL 13892 (210)

By: cfs

Stealth ID: KWG1504264 (254)

### Injection Log LC10 - Agilent 1260

LIMS ID: 443616

2nd Review: opt 5.18.15

Column: Phenomenex Synergi Hydro-RP 80A SN 759076-19

Current BP: 240

Mobile Phases A: MeOH Lot#: 54212 B: ACN Lot#: 54296 C: H<sub>2</sub>O Lot#: 55007 D: NA

	Sample Name	File Name	Method	Dilution	R	Comments
1	PRIMER	0504000101	8330BX.M	NA		Tetryl only
2	IB	0504000102	8330BX.M	NA	X	
3	rinse	0504000103	8330BXRINSE.M	NA		
4	14-OLC-02-33K 1ppm	0504000104	8330BX.M	NA	X	Q
5	rinse	0504000105	8330BXRINSE.M	NA		
6	K1503815-009 ✓	0504000106	8330BX.M	NA	X	
7	rinse	0504000107	8330BXRINSE.M	NA		
8	K1503815-010	0504000108	8330BX.M	NA	X	
9	rinse	0504000109	8330BXRINSE.M	NA		
10	K1503815-011	0504000110	8330BX.M	NA	X	
11	rinse	0504000111	8330BXRINSE.M	NA		
12	K1503815-011 MS	0504000112	8330BX.M	NA		NR - revalied and rerun
13	rinse	0504000113	8330BXRINSE.M	NA		
14	K1503815-011 DMS	0504000114	8330BX.M	NA		NR - revalied and rerun
15	rinse	0504000115	8330BXRINSE.M	NA		
16	14-OLC-02-33K 1ppm	0504000116	8330BX.M	NA	X	Q
17	rinse	0504000117	8330BXRINSE.M	NA		
18	IB	0504000118	8330BX.M	NA	X	
19	KWG1503333-4 MB	0504000119	8330BX.M	NA	X	4001 4002
20	rinse	0504000120	8330BXRINSE.M	NA		
21	KWG1503333-3 LCS	0504000121	8330BX.M	NA	X	
22	rinse	0504000122	8330BXRINSE.M	NA		
23	K1504001-007	0504000123	8330BX.M	NA		NR -- vial solution too low
24	rinse	0504000124	8330BXRINSE.M	NA		
25	K1504001-007 MS	0504000125	8330BX.M	NA	X	
26	rinse	0504000126	8330BXRINSE.M	NA		
27	K1504001-007 DMS	0504000127	8330BX.M	NA	X	
28	rinse	0504000128	8330BXRINSE.M	NA		
29	K1504001-001	0504000129	8330BX.M	NA	X	
30	rinse	0504000130	8330BXRINSE.M	NA		

IV

IV

Q = RT update

Date: 5/4/2015



ICAL Date: 3/16/2015  
3/12/2015  
CAL 13891 (254)  
ICAL ID: CAL 13892 (210)

By: cfs

Stealth ID: KWG1504264 (254)

### Injection Log LC10 - Agilent 1260

LIMS ID: 443616

2nd Review: \_\_\_\_\_

Column: Phenomenex Synergi Hydro-RP 80A SN 759076-19

Current BP: 240

Mobile Phases A: MeOH Lot#: 54212 B: ACN Lot#: 54296 C: H<sub>2</sub>O Lot#: 55007 D: NA

	Sample Name	File Name	Method	Dilution	R	Comments
1	K1504001-002	0504000131	8330BX.M	NA	X	Tetryl only 10x
2	rinse	0504000132	8330BXRINSE.M	NA		
3	K1504001-003	0504000133	8330BX.M	NA	X	10x
4	rinse	0504000134	8330BXRINSE.M	NA		
5	K1504001-004	0504000135	8330BX.M	NA	X	10x
6	rinse	0504000136	8330BXRINSE.M	NA		
7	14-OLC-02-33K 1ppm	0504000137	8330BX.M	NA	X	Q
8	rinse	0504000138	8330BXRINSE.M	NA		
9	IB	0504000139	8330BX.M	NA	X	
10	K1504001-005	0504000140	8330BX.M	NA		NR -- vial solution too low
11	rinse	0504000141	8330BXRINSE.M	NA		
12	K1504001-006	0504000142	8330BX.M	NA		NR -- vial solution too low
13	rinse	0504000143	8330BXRINSE.M	NA		
14	K1504002-001	0504000144	8330BX.M	NA		NR -- vial solution too low
15	rinse	0504000145	8330BXRINSE.M	NA		
16	K1504002-002	0504000146	8330BX.M	NA	X	
17	rinse	0504000147	8330BXRINSE.M	NA		
18	K1504002-003	0504000148	8330BX.M	NA		NR -- vial solution too low
19	rinse	0504000149	8330BXRINSE.M	NA		
20	K1504002-004	0504000150	8330BX.M	NA	X	
21	rinse	0504000151	8330BXRINSE.M	NA		
22	K1504002-005	0504000152	8330BX.M	NA	X	
23	rinse	0504000153	8330BXRINSE.M	NA		
24	K1504002-006	0504000154	8330BX.M	NA	X	
25	rinse	0504000155	8330BXRINSE.M	NA		
26	K1504002-007	0504000156	8330BX.M	NA	X	
27	rinse	0504000157	8330BX.M	NA		
28	14-OLC-02-33K 1ppm	0504000158	8330BXRINSE.M	NA	X	Q Tetryl and RDX only
29	IB	0504000159	8330BX.M	NA	X	
30	KWG1503332-3 LCS recheck	0504000160	8330BX.M	NA		NR-possible misinject

IV

Q = RT update

Date: 5/4/2015



ICAL Date: 3/16/2015  
3/12/2015  
ICAL ID: CAL 13891 (254)  
CAL 13892 (210)

By: cfs

Stealth ID: KWG1504264 (254)

### Injection Log LC10 - Agilent 1260

LIMS ID: 443616

2nd Review:

Column: Phenomenex Synergi Hydro-RP 80A SN 759076-19

Current BP: 240

Mobile Phases A: MeOH Lot#: 54212 B: ACN Lot#: 54296 C: H<sub>2</sub>O Lot#: 55007

D: NA

	Sample Name	File Name	Method	Dilution	R	Comments
1	K1504001-002 10x *	0504000161	8330BX.M	NA	X	RDX only
2	K1504001-003 10x	0504000162	8330BX.M	NA	X	RDX only
3	K1504001-004 10x	0504000163	8330BX.M	NA	X	RDX only
4	K1503815-011 MS 5/5/15 *	0504000164	8330BX.M	NA	X	Tetryl only
5	K1503815-011 DMS 5/5/15	0504000165	8330BX.M	NA	X	Tetryl only
6	14-OLC-02-33K 1ppm	0504000166	8330BX.M	NA	X	
7	IB	0504000167	8330BX.M	NA	X	
8	IB	0504000168	8330BX.M	NA		
9	CLEAN	0504000169	8330BCleanup	NA		
10	CLEAN	0504000170	8330BCleanup	NA		
11						
12						
13						
14						
15						
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30						

Q = RT update

# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000202.D  
**Lab ID:** KWG1503923-1  
**Run Type:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/23/2015 20:19  
**Date Quantitated:** 04/30/2015 16:55  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: lu 5/5/15

Secondary Review: OA 5/12/15

4001  
4002  
8315 ✓

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000202.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/23/2015 20:19	<b>Quant Date:</b> 04/30/2015 16:55
<b>Run Type:</b> IB	<b>Vial:</b> 42
<b>Lab ID:</b> KWG1503923-1	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0d			23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0d				
TETRYL			0d				
Nitrobenzene			0d				
2,4,6-Trinitrotoluene			0d				
4-Amino-2,6-dinitrotoluene			0d				
2-Amino-4,6-dinitrotoluene			0d				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

J: Undetected at or above MDL  
 : Analyte detected above MDL, but below MRL  
 #: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 †: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ? : Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000202.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 20:19:45  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:55:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L d
6) T Tetryl	0.000	0	N.D.	ug/L d
7) T Nitrobenzene	0.000	0	N.D.	ug/L d
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L d
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L d
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L d
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

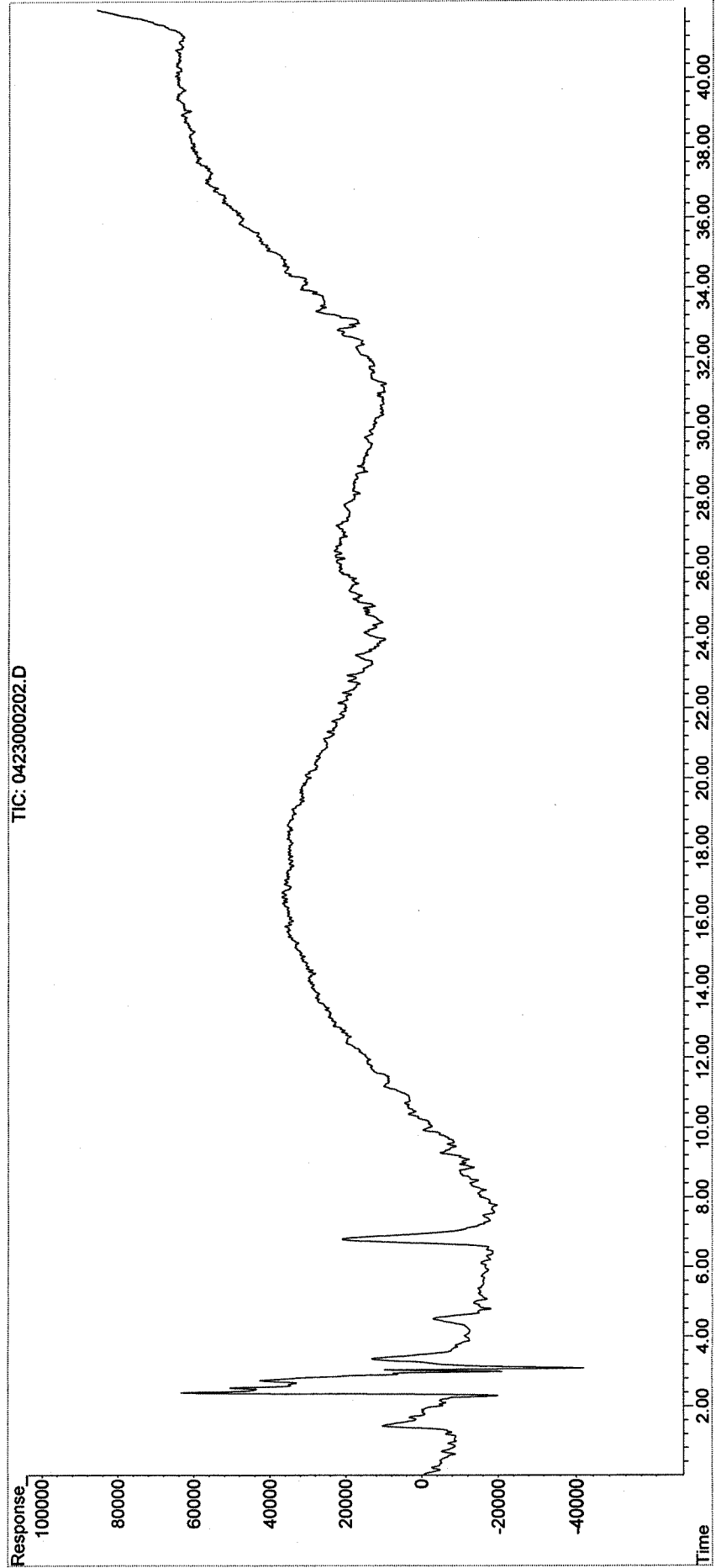
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000202.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 20:19:45  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:55:14 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm





# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000203.D  
**Lab ID:** KWG1503923-4  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/23/2015 21:30  
**Date Quantitated:** 05/01/2015 10:24  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: lu 5/5/15

Secondary Review: 8/2 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000203.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/23/2015 21:30	<b>Quant Date:</b> 05/01/2015 10:24
<b>Run Type:</b> CCV	<b>Vial:</b> 43
<b>Lab ID:</b> KWG1503923-4	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.44		29625507m	964.14		23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX	4.34		15707594	1,019			
RDX	7.15		19882806m	986.17			
1,3,5-Trinitrobenzene	9.95		45159818m	997.11			
1,3-Dinitrobenzene	13.35		62058565m	1,015			
3,5-Dinitroaniline	14.05		47845232m	986.48			
TETRYL	14.75		31768196m	901.41			
Nitrobenzene	15.77		36956776m	953.68			
2,4,6-Trinitrotoluene	17.33		41511007m	986.25			
4-Amino-2,6-dinitrotoluene	18.32		30217670m	969.89			
2-Amino-4,6-dinitrotoluene	19.30		41108050m	987.17			
2,6-Dinitrotoluene	21.78		28632586m	1,009			
2,4-Dinitrotoluene	22.37		55068514	976.75			
2-Nitrotoluene	26.75		23957940	946.14			
4-Nitrotoluene	28.11		20351932	953.11			
3-Nitrotoluene	29.80		25935597m	911.67			

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000203.D  
 Signal(s) : DAD1A.ch  
 Acq On : 23-Apr-2015, 21:30:31  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 10:24:13 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.439	29625507	964.137 ug/L m
Target Compounds			
1) T HMX	4.339	15707594	1018.743 ug/L
2) T RDX	7.152	19882806	986.174 ug/L m
3) T 1,3,5-TNB	9.952	45159818	997.105 ug/L m
4) T 1,3-DNB	13.345	62058565	1014.784 ug/L m
5) T 3,5-Dinitroaniline	14.045	47845232	986.481 ug/L m
6) T Tetryl	14.752	31768196	901.408 ug/L m
7) T Nitrobenzene	15.765	36956776	953.681 ug/L m
8) T 2,4,6-TNT	17.325	41511007	986.251 ug/L m
9) T 4-Amino-2,6-DNT	18.319	30217670	969.887 ug/L m
10) T 2-Amino-4,6-DNT	19.299	41108050	987.169 ug/L m
11) T 2,6-DNT	21.779	28632586	1009.107 ug/L m
12) T 2,4-DNT	22.365	55068514	976.750 ug/L
13) T 2-NT	26.745	23957940	946.138 ug/L
14) T 4-NT	28.105	20351932	953.105 ug/L
15) T 3-NT	29.799	25935597	911.665 ug/L m
-----			

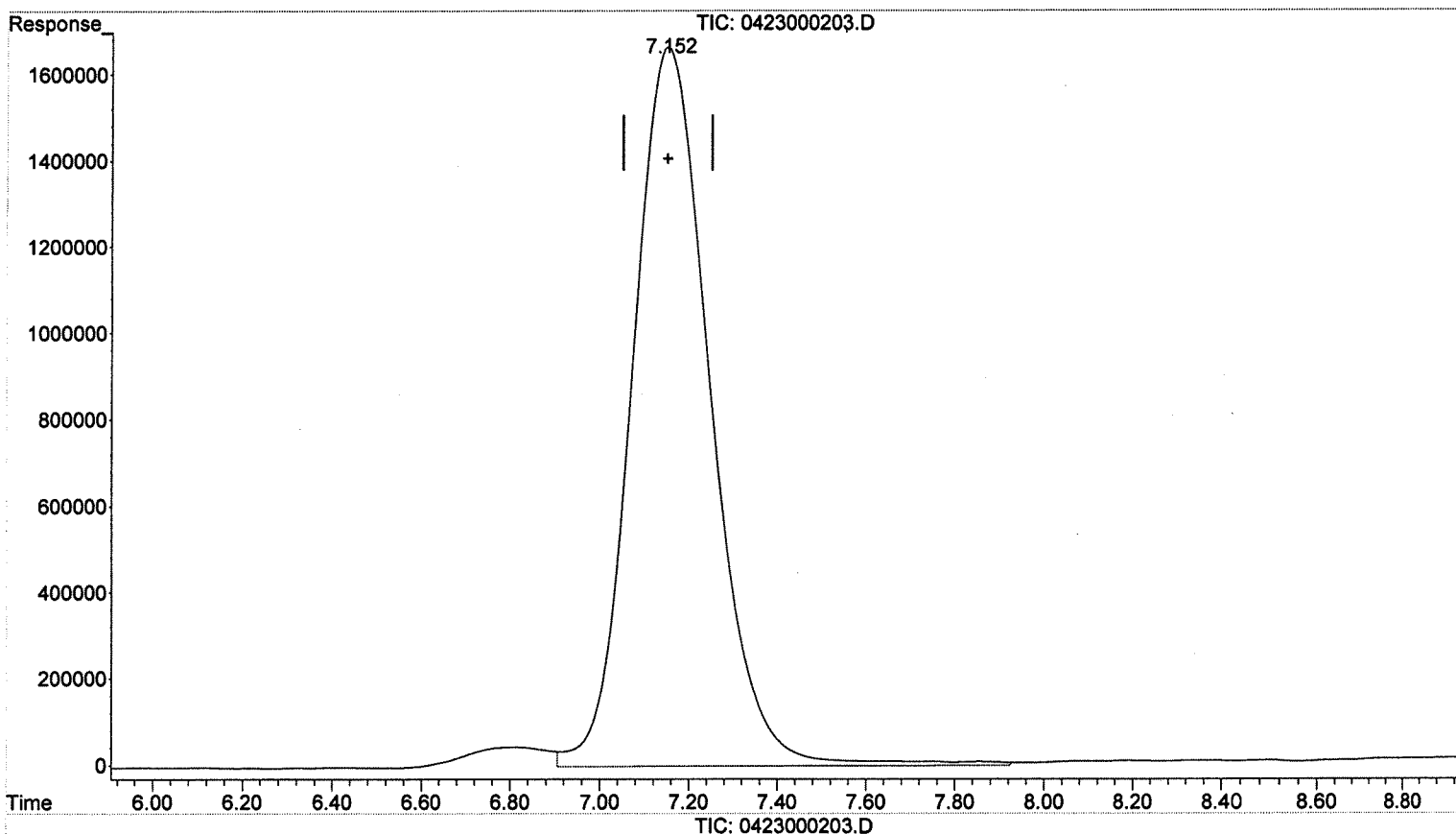
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.152min 1011.204 ug/L  
response 20385219

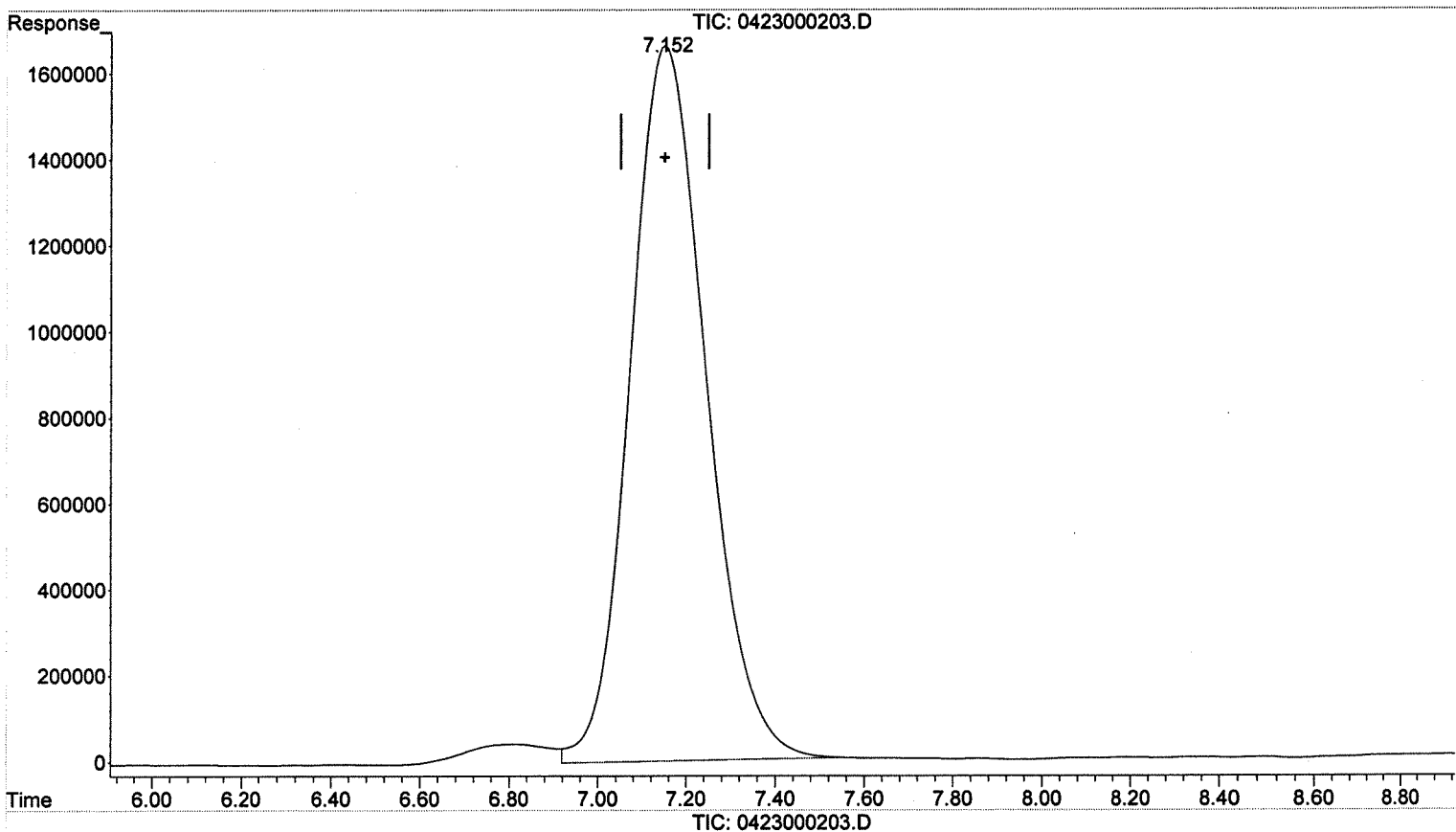
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.152min 986.174 ug/L m  
response 19882806

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

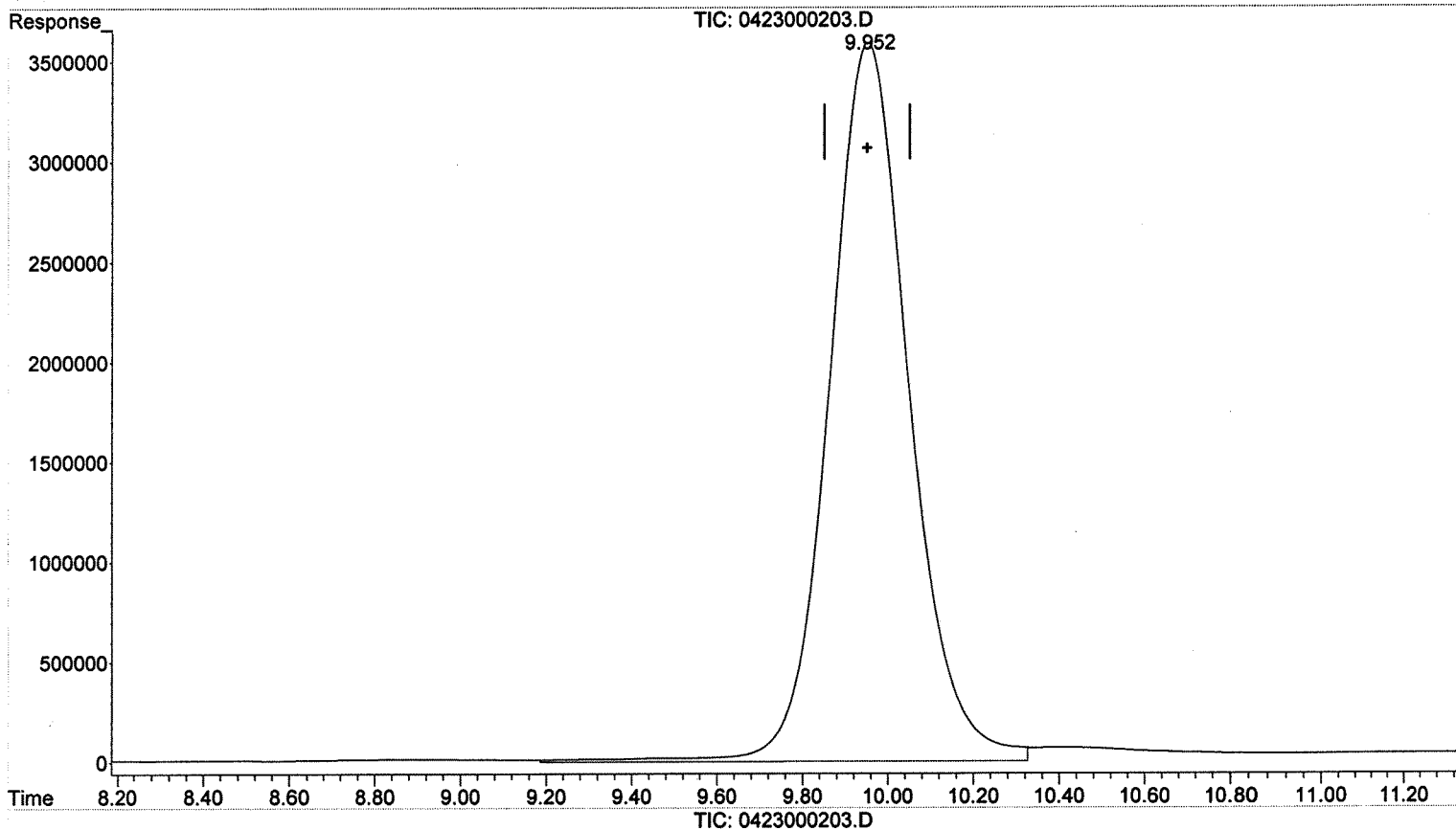
031615\_8330B@254.M Fri May 01 10:18:23 2015

Page: 1

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.952min 1029.024 ug/L  
response 46605460

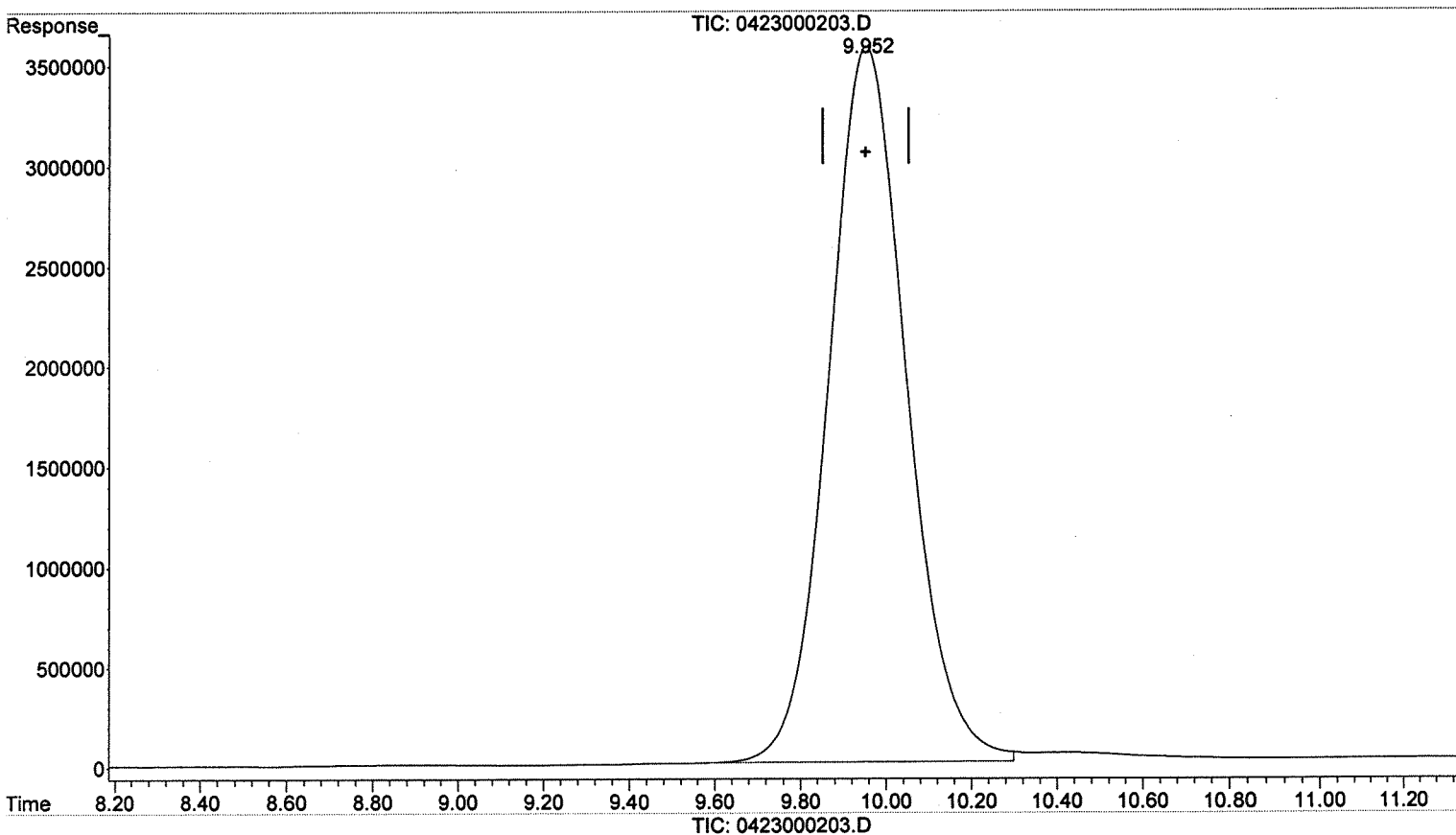
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(3) 1,3,5-TNB (T)  
9.952min 997.105 ug/L m  
response 45159818

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

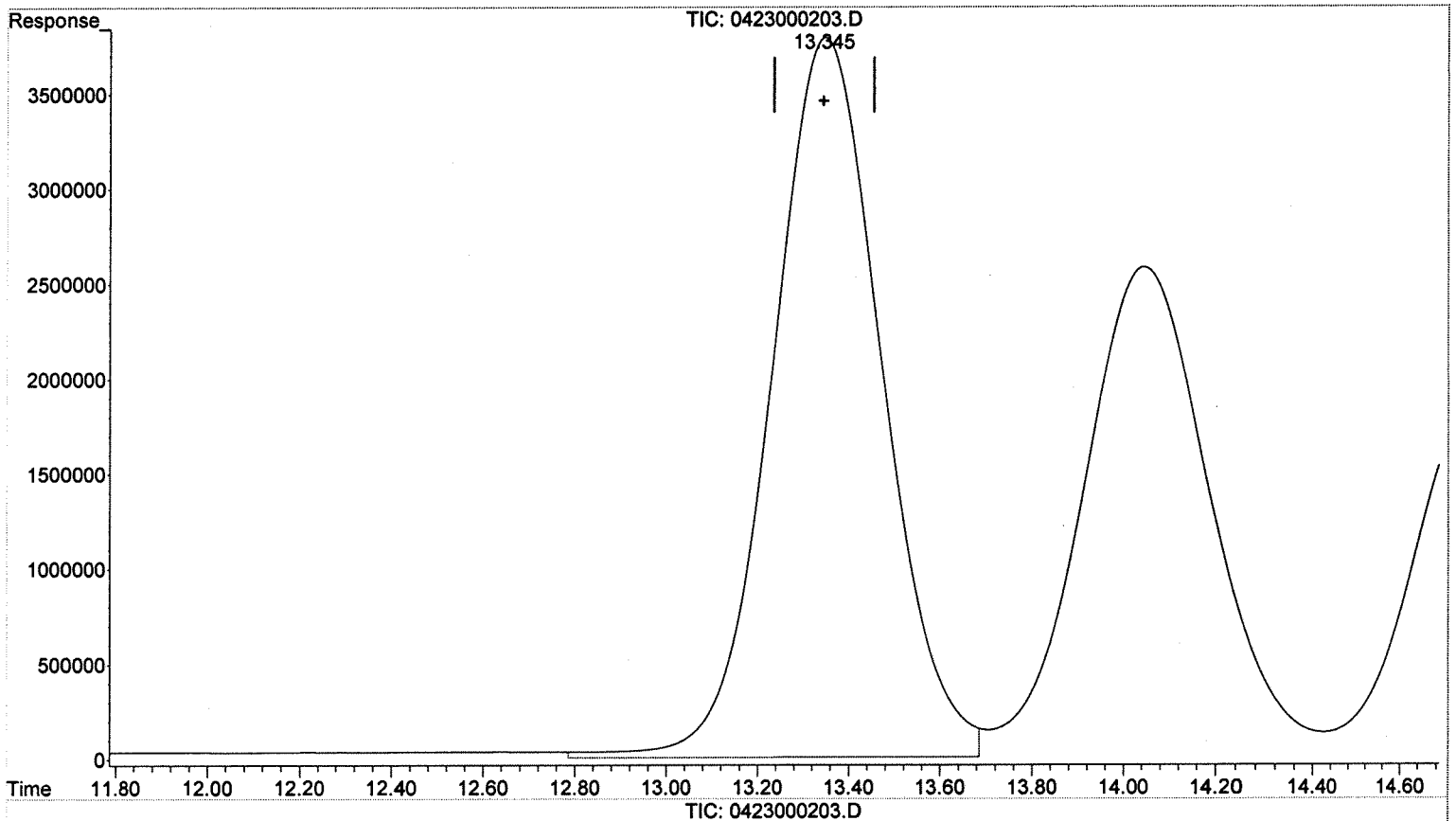
031615\_8330B@254.M Fri May 01 10:18:40 2015

Page: 1

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.345min 1037.087 ug/L  
response 63422484

Manual Integration:  
Before

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:18:44 2015

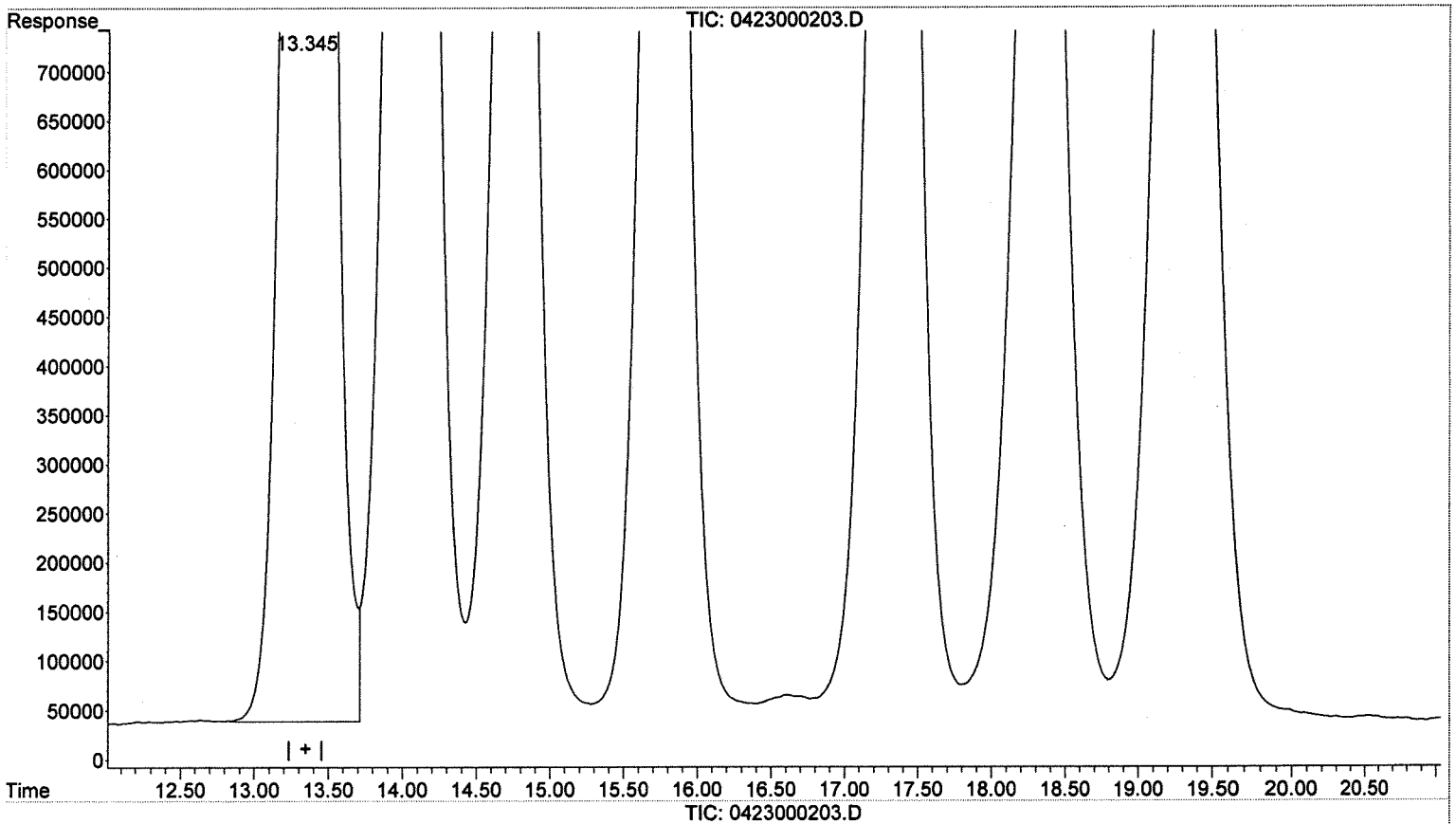
Page: 1



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(4) 1,3-DNB (T)  
13.345min 1014.784 ug/L m  
response 62058565

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:19:11 2015

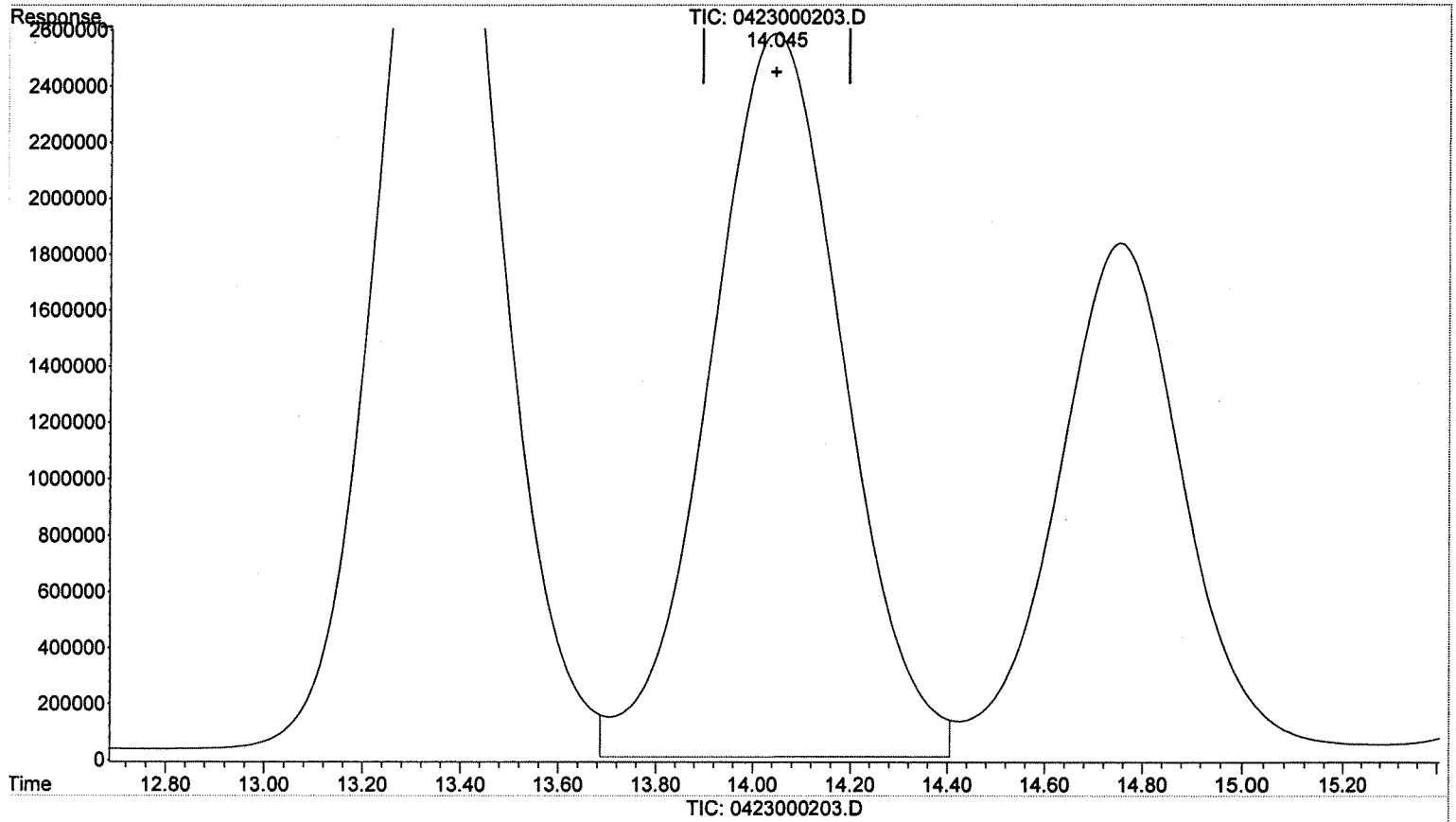
Page: 1

5/12/15jal2<sup>nd</sup>Rev

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
14.045min 1008.217 ug/L  
response 48899420

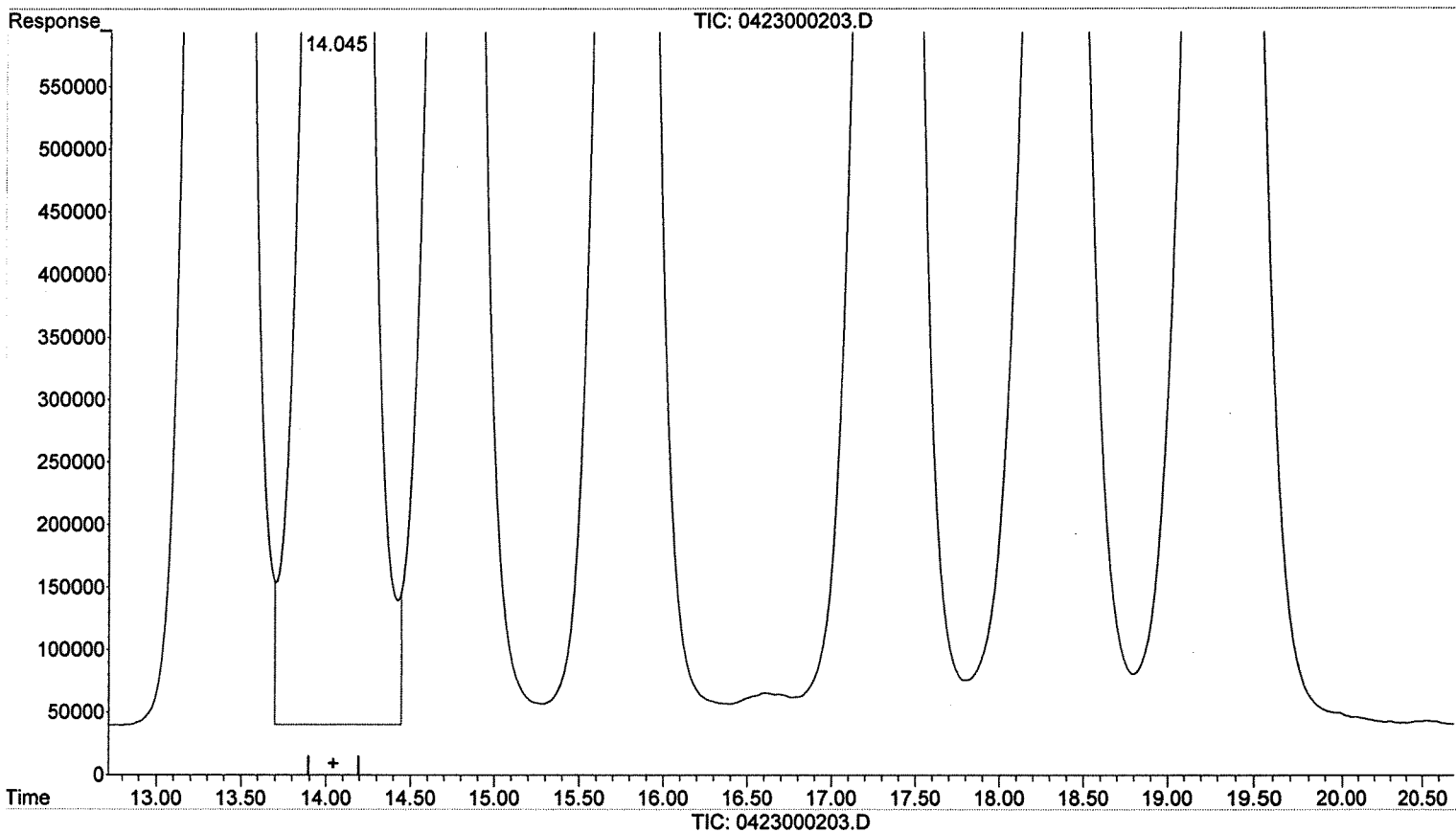
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(5) 3,5-Dinitroaniline (T)  
14.045min 986.481 ug/L m  
response 47845232

Manual Integration:

After  
BLC  
05/01/15

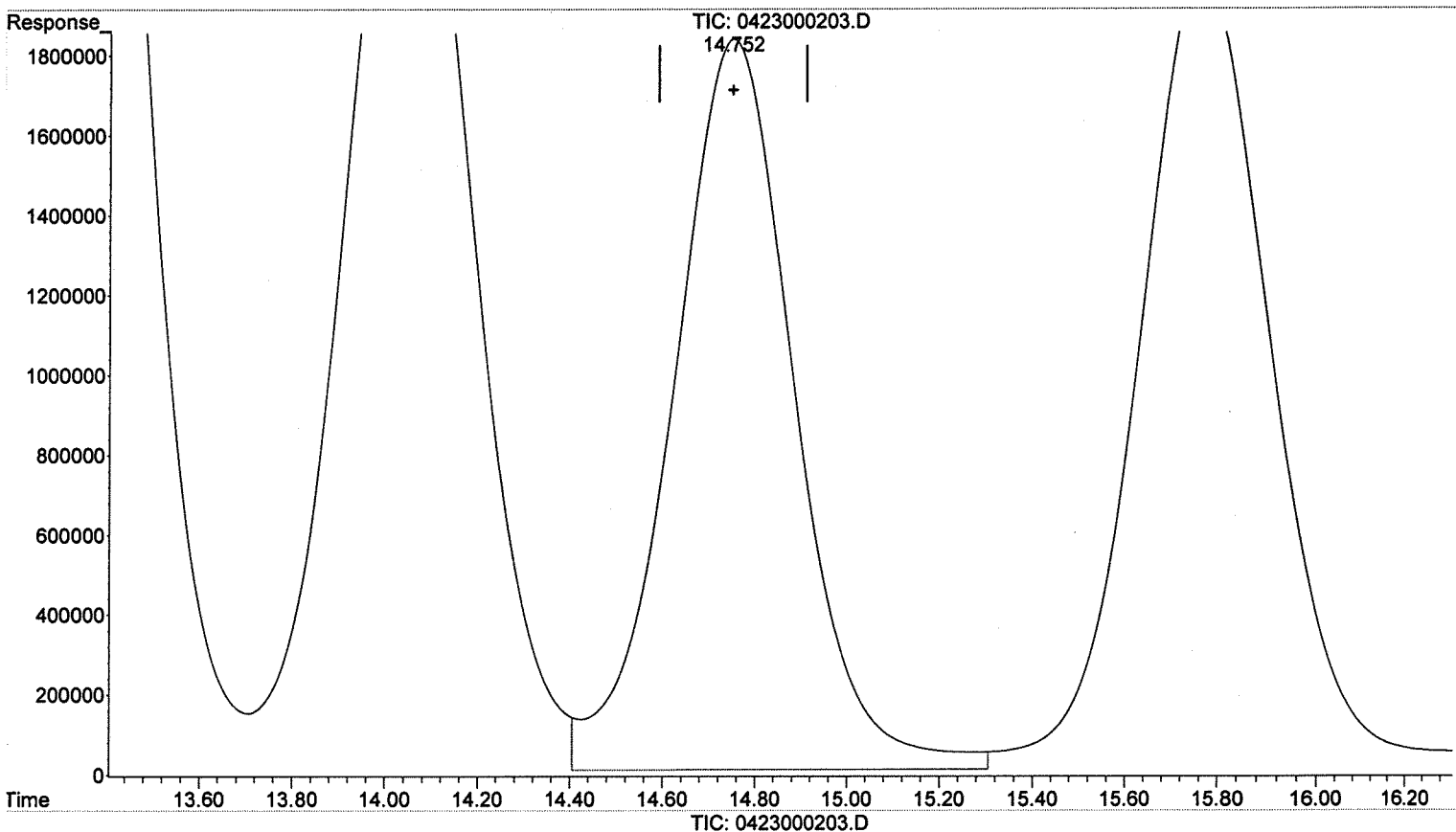
(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:20:57 2015

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.752min 945.581 ug/L  
response 33324985

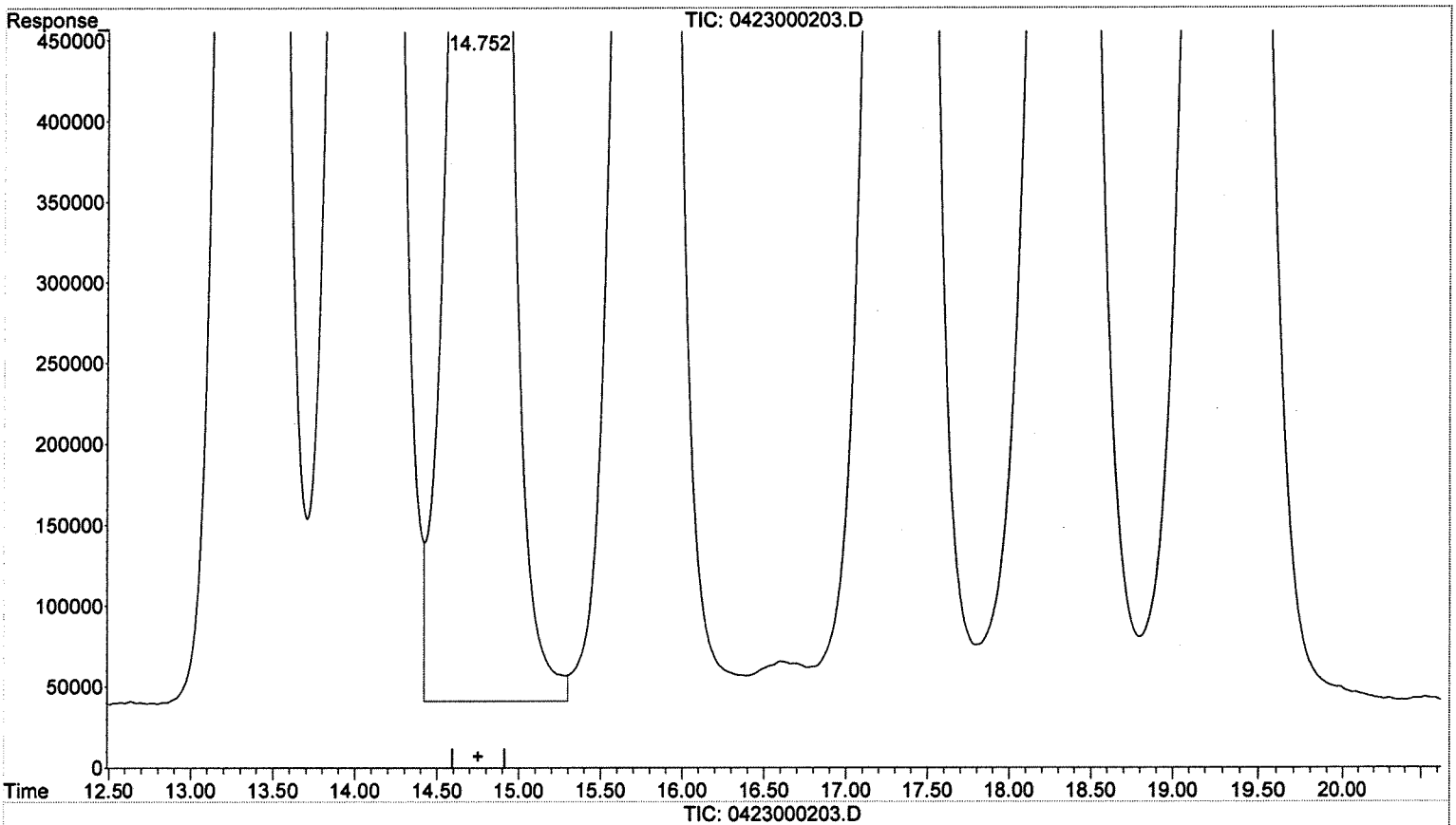
Manual Integration:  
Before

05/01/15 *li*

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(6) Tetryl (T)  
14.752min 901.408 ug/L m  
response 31768196

Manual Integration:

After

BLC

05/01/15

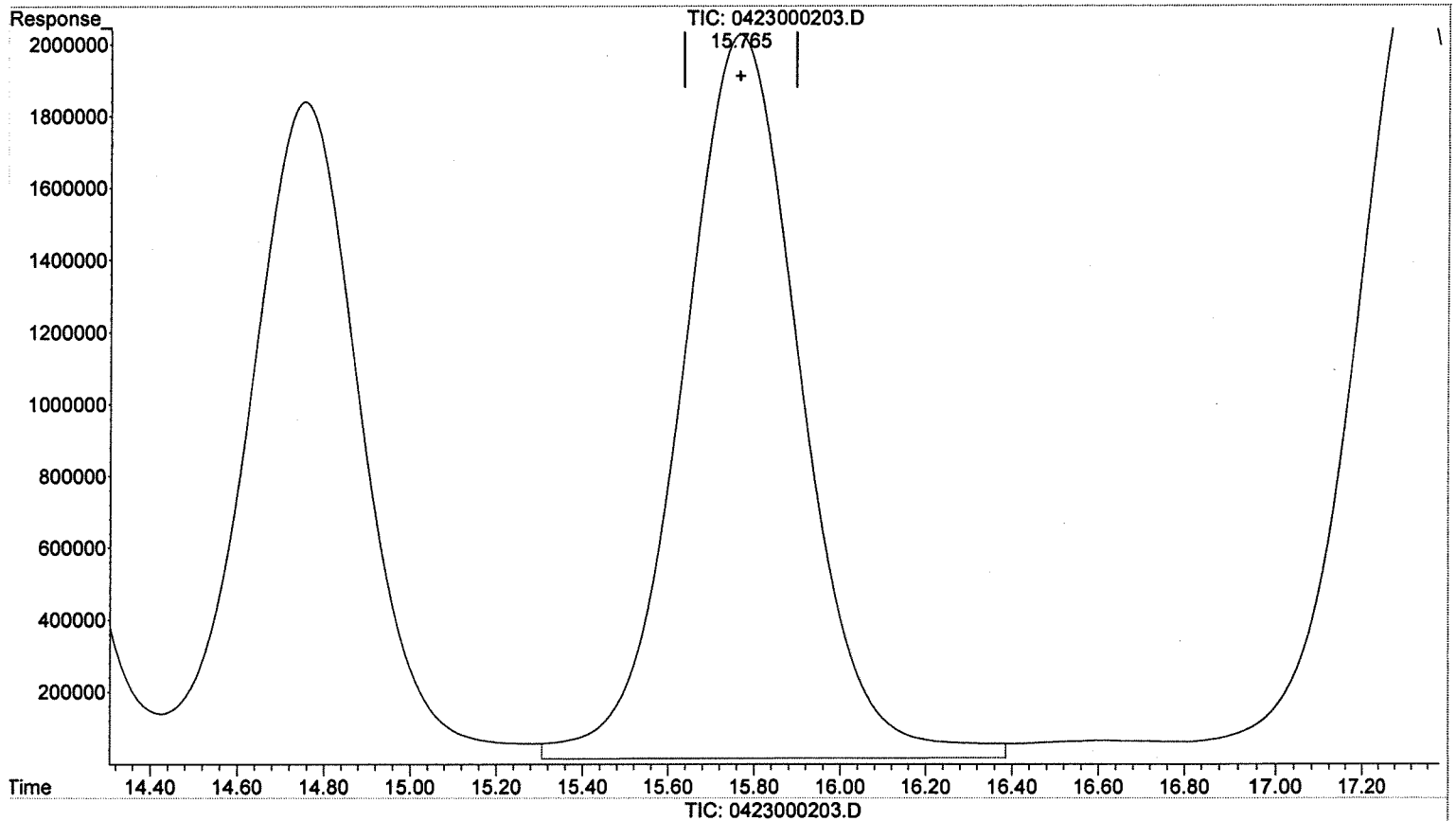
(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:21:35 2015

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(7) Nitrobenzene (T)  
15.765min 995.004 ug/L  
response 38558108

Manual Integration:  
Before

05/01/15

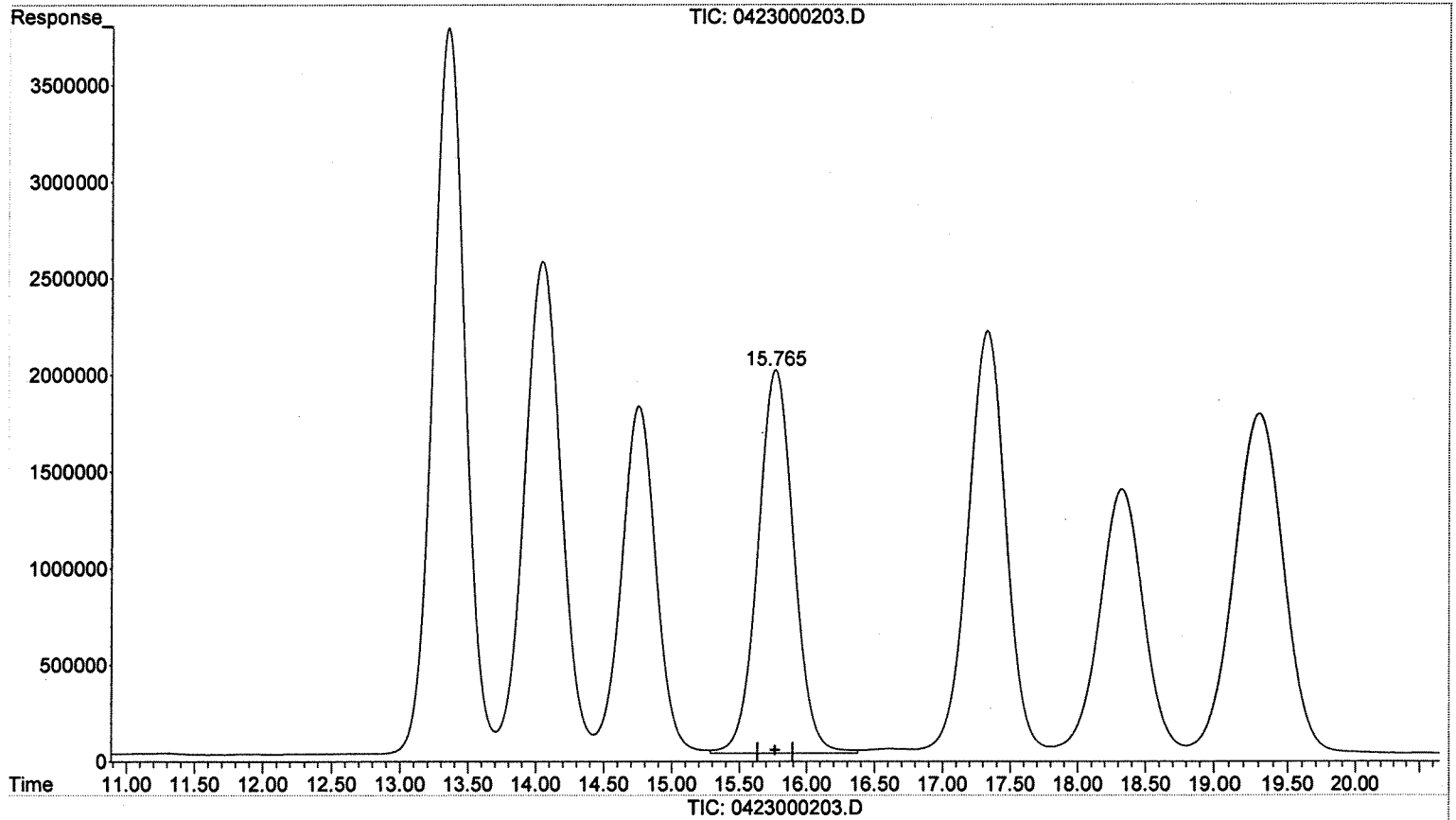
(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:21:39 2015

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



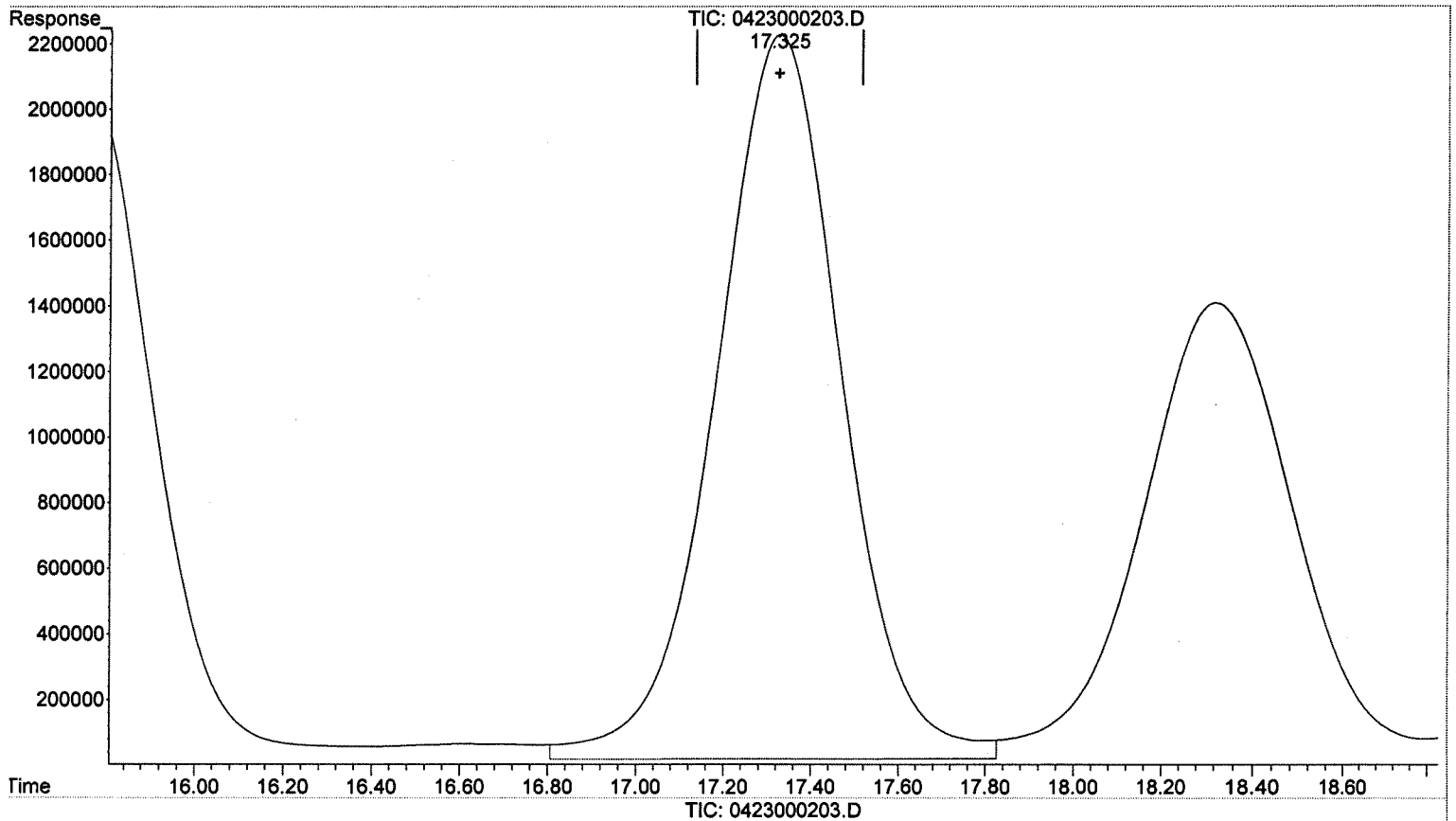
(7) Nitrobenzene (T)  
15.765min 953.681 ug/L m  
response 36956776

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.325min 1046.750 ug/L  
response 44057406

Manual Integration:

Before

05/01/15

(+) = Expected Retention Time

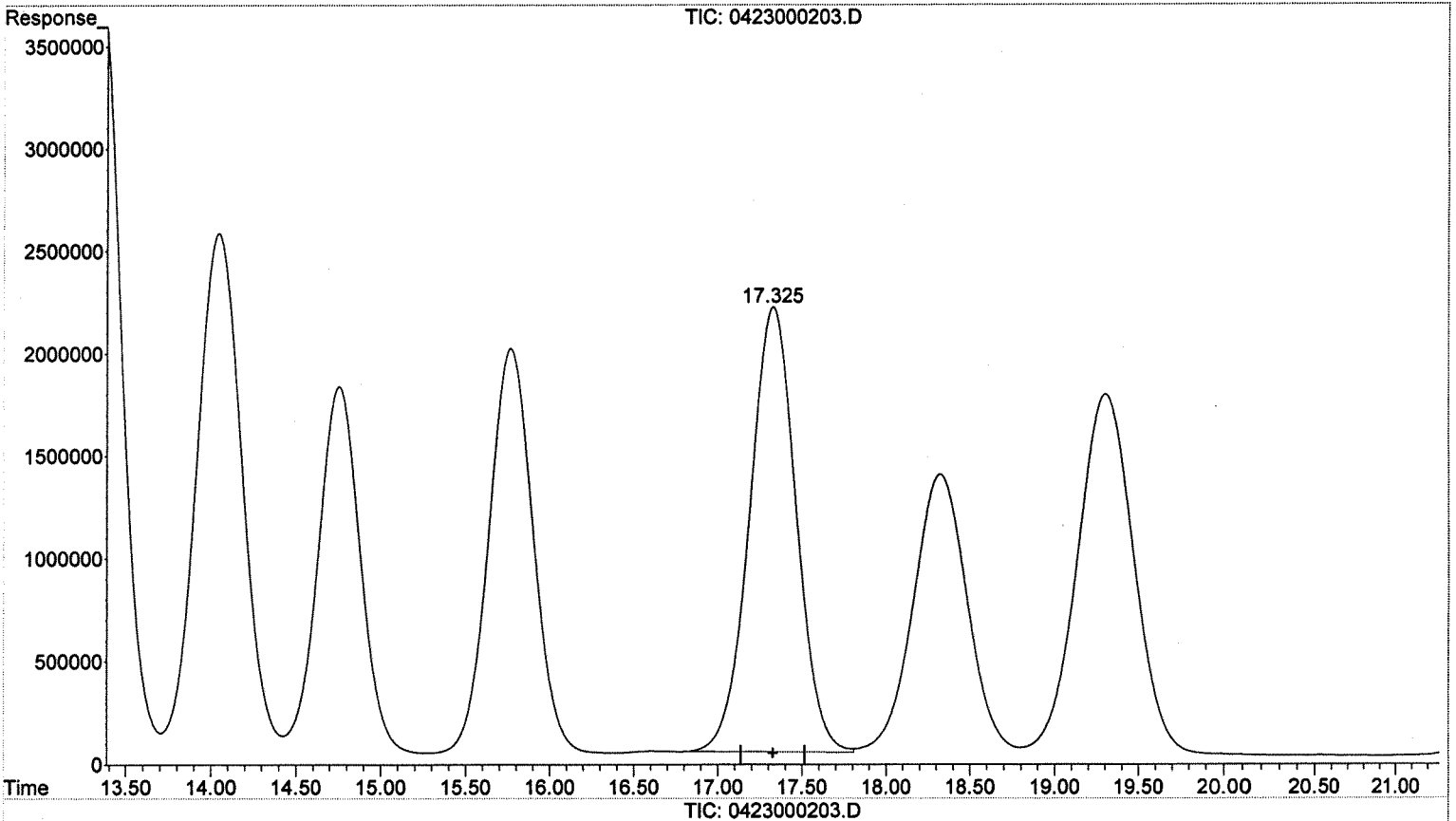
031615\_8330B@254.M Fri May 01 10:22:07 2015



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.325min 986.251 ug/L m  
response 41511007

Manual Integration:

After

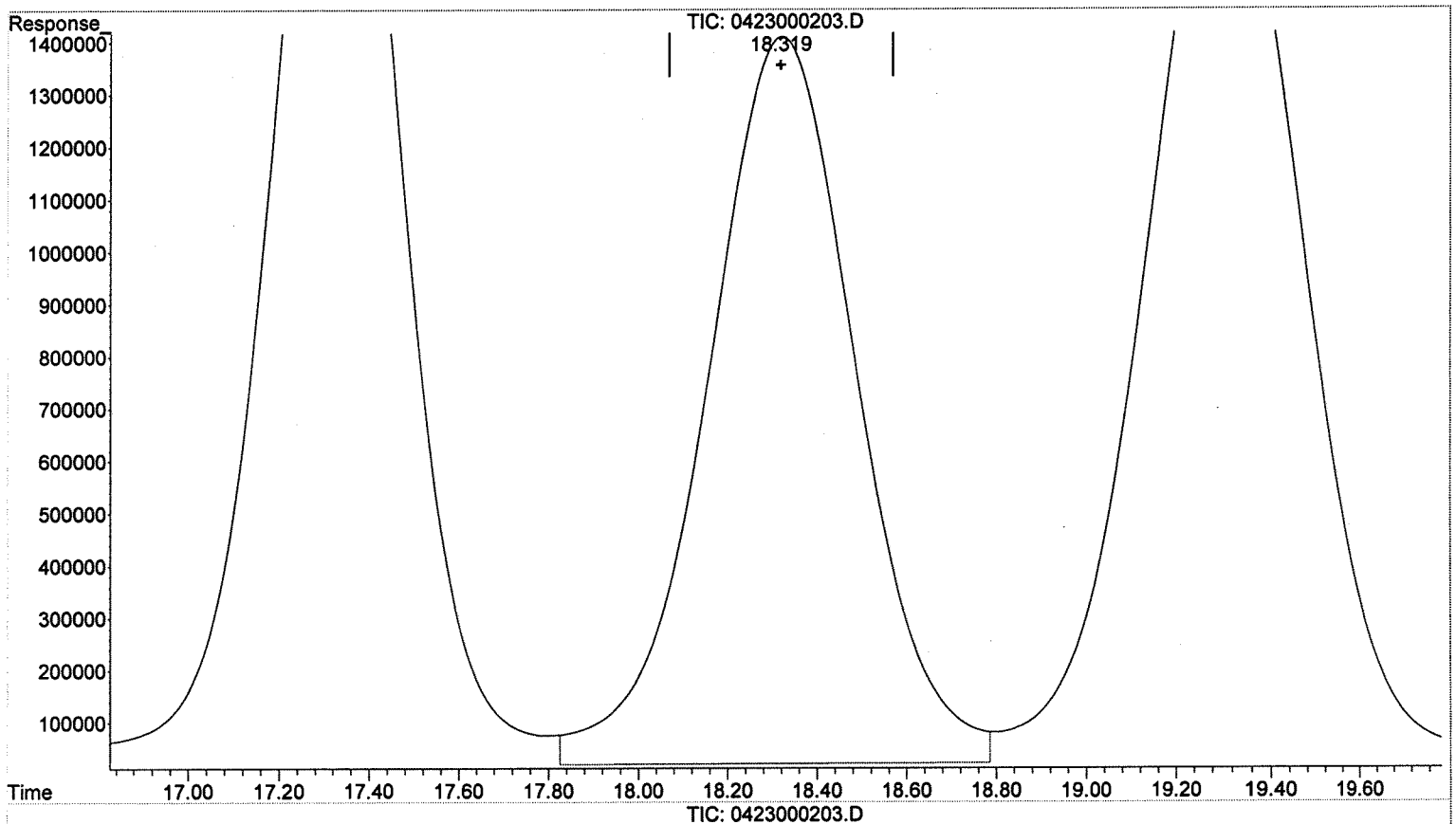
BLC

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.319min 1029.413 ug/L  
response 32072266

Manual Integration:

Before

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:22:25 2015

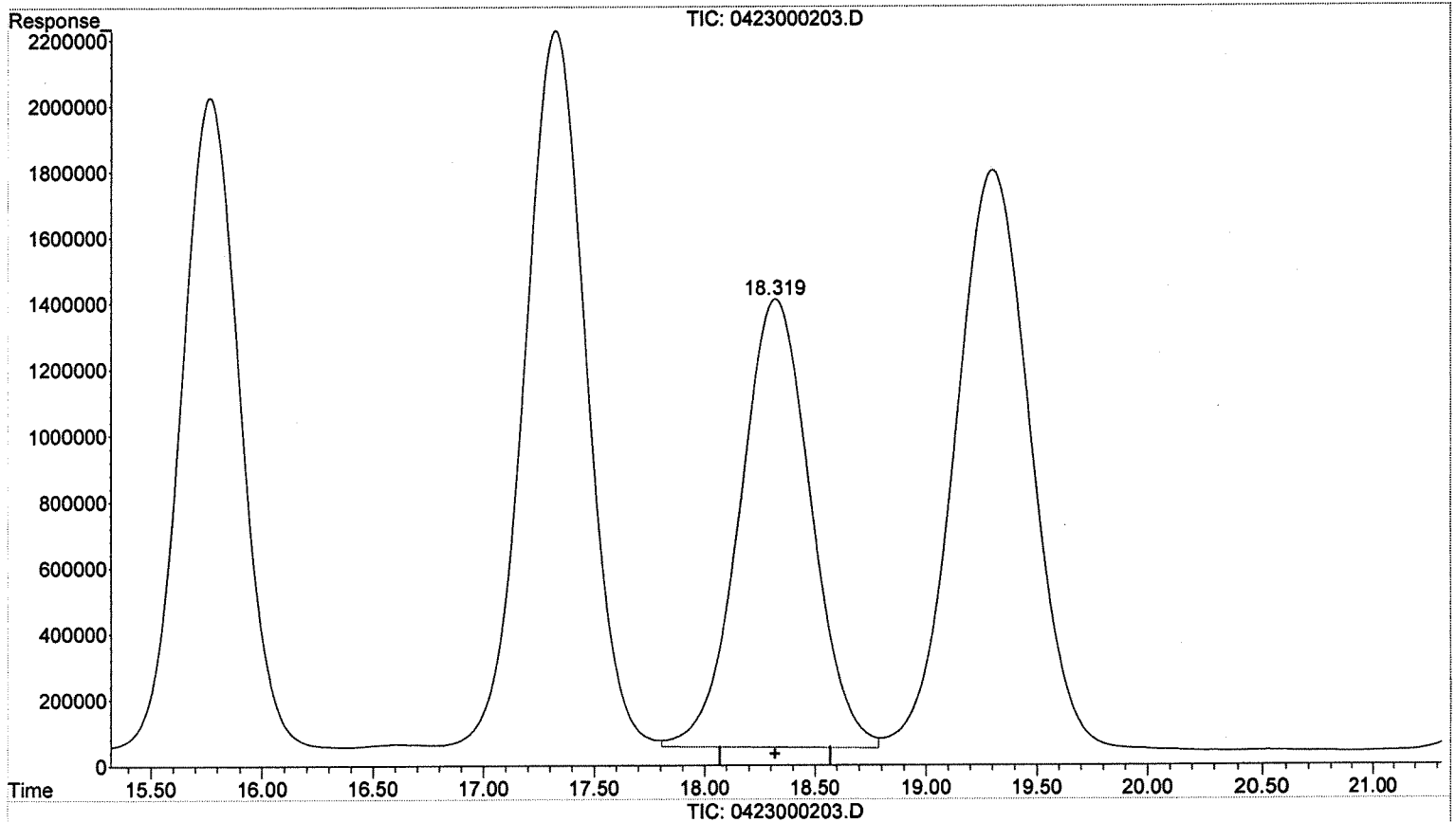
5/12/15jal2<sup>nd</sup>Rev

Page: 1

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.319min 969.887 ug/L m  
response 30217670

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:22:45 2015

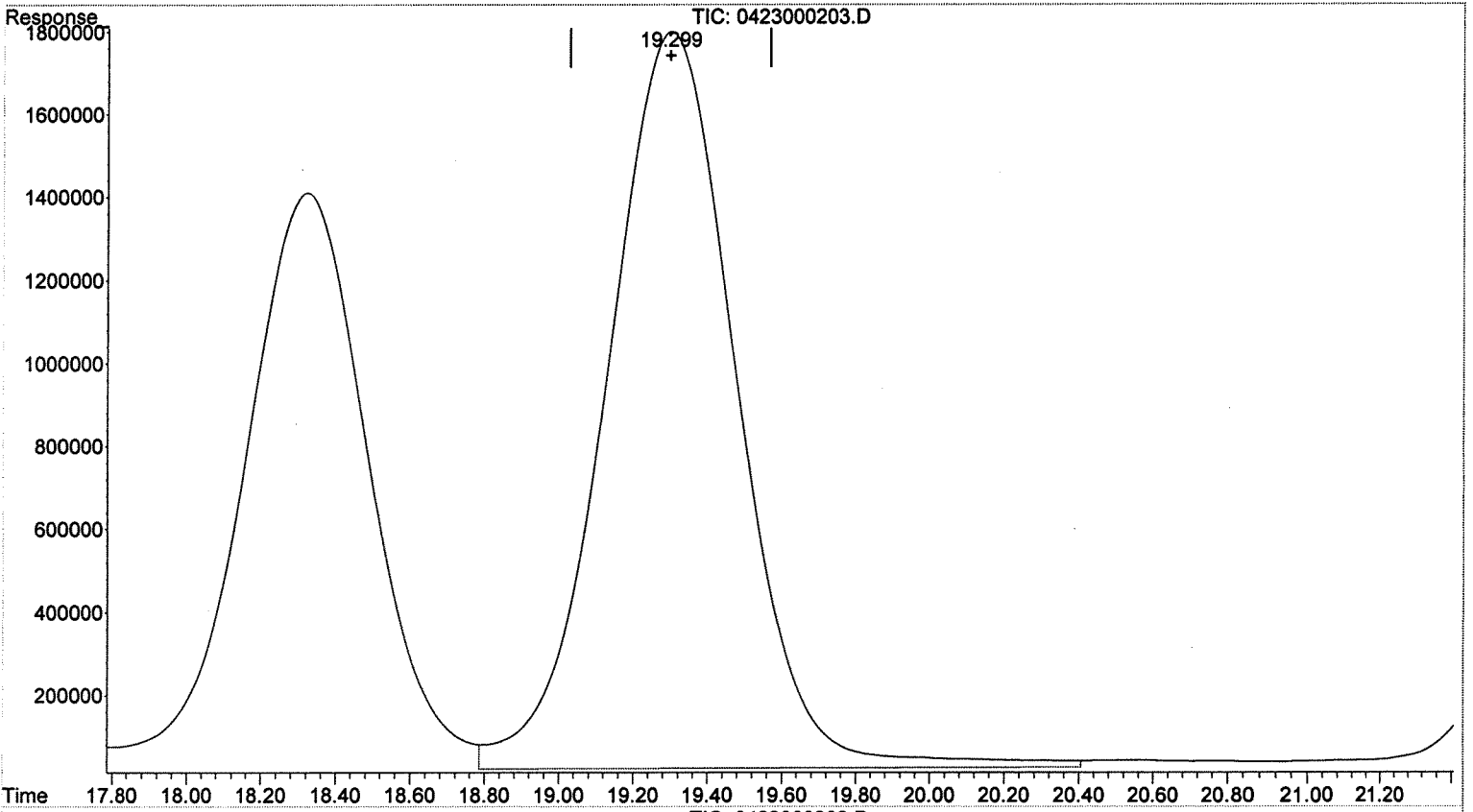
Page: 1

5/12/15jal2<sup>nd</sup>Rev

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.299min 1036.294 ug/L  
response 43153723

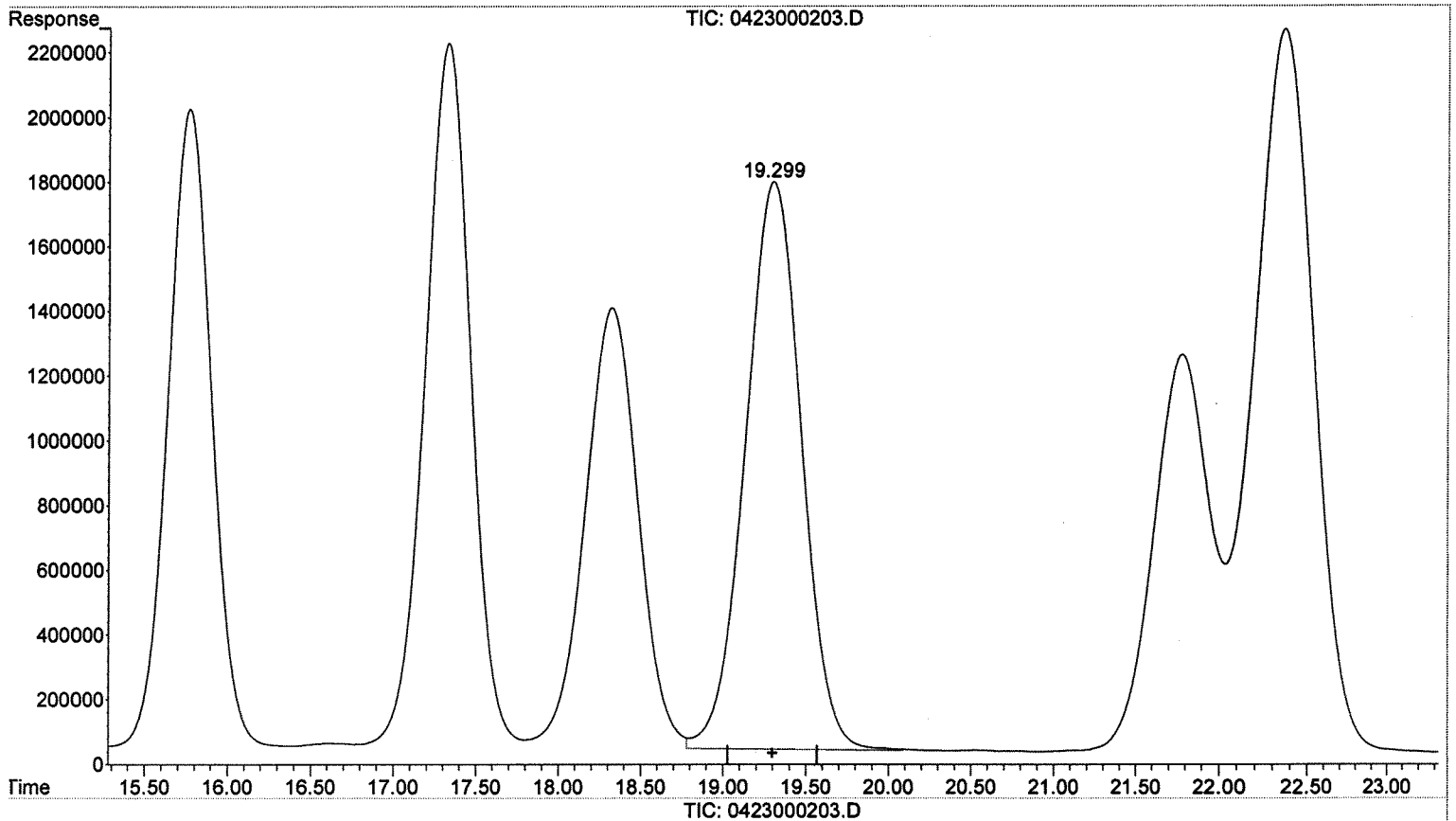
Manual Integration:  
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.299min 987.169 ug/L m  
response 41108050

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:23:10 2015

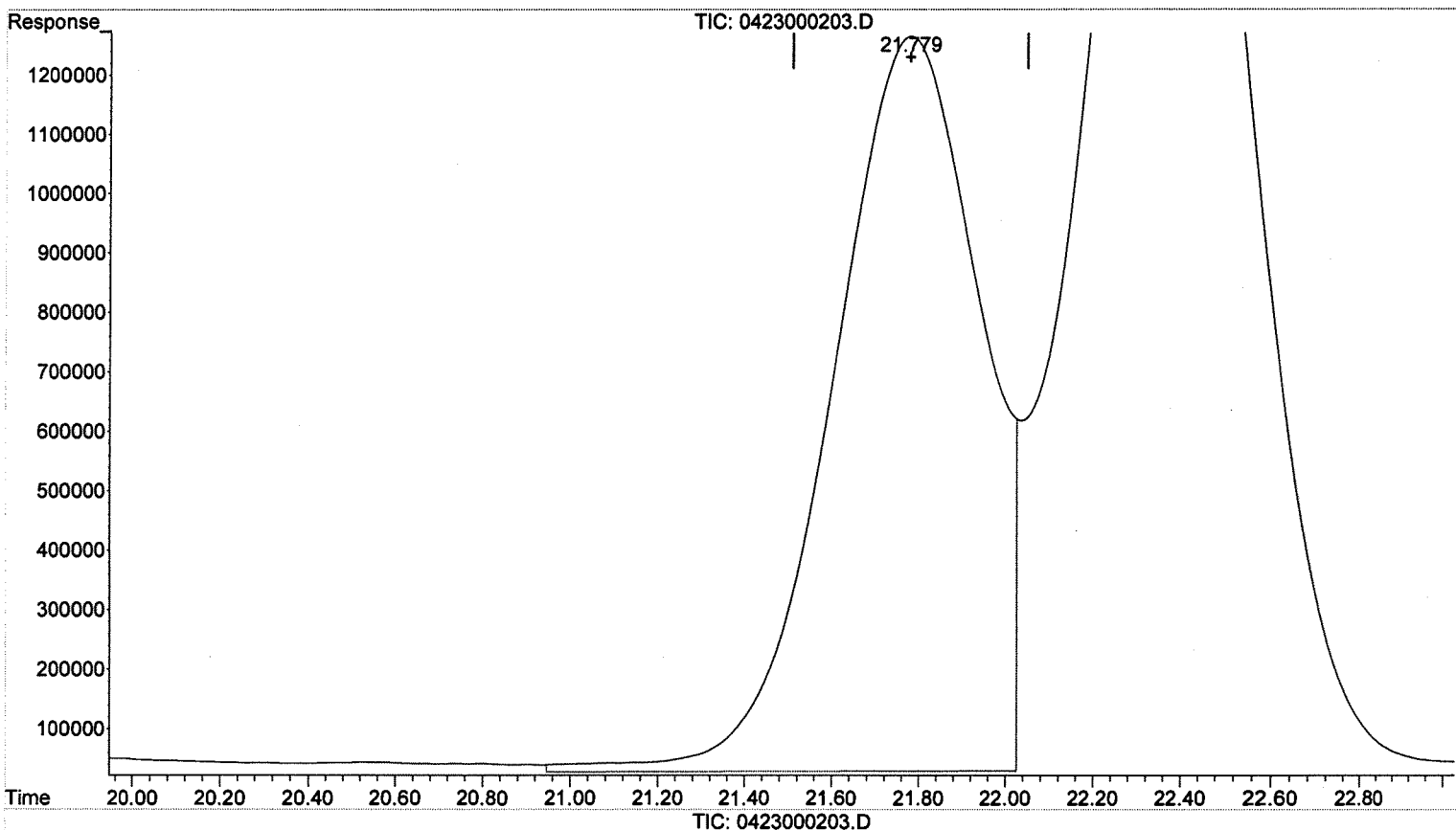
5/12/15jal2<sup>nd</sup>Rev

Page: 1

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.779min 1022.756 ug/L  
response 29019846

Manual Integration:

Before

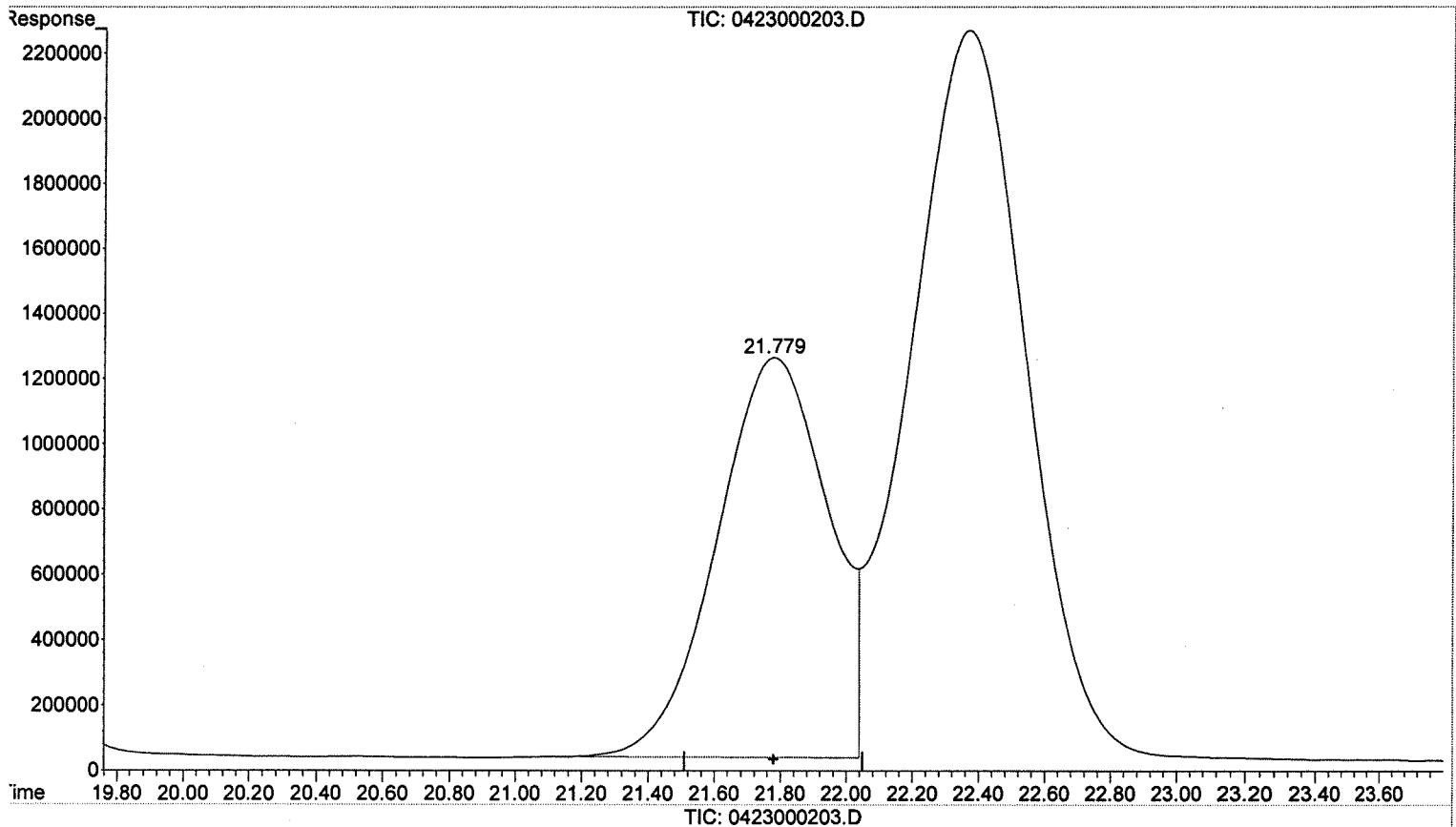
05/01/15

(+) = Expected Retention Time

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



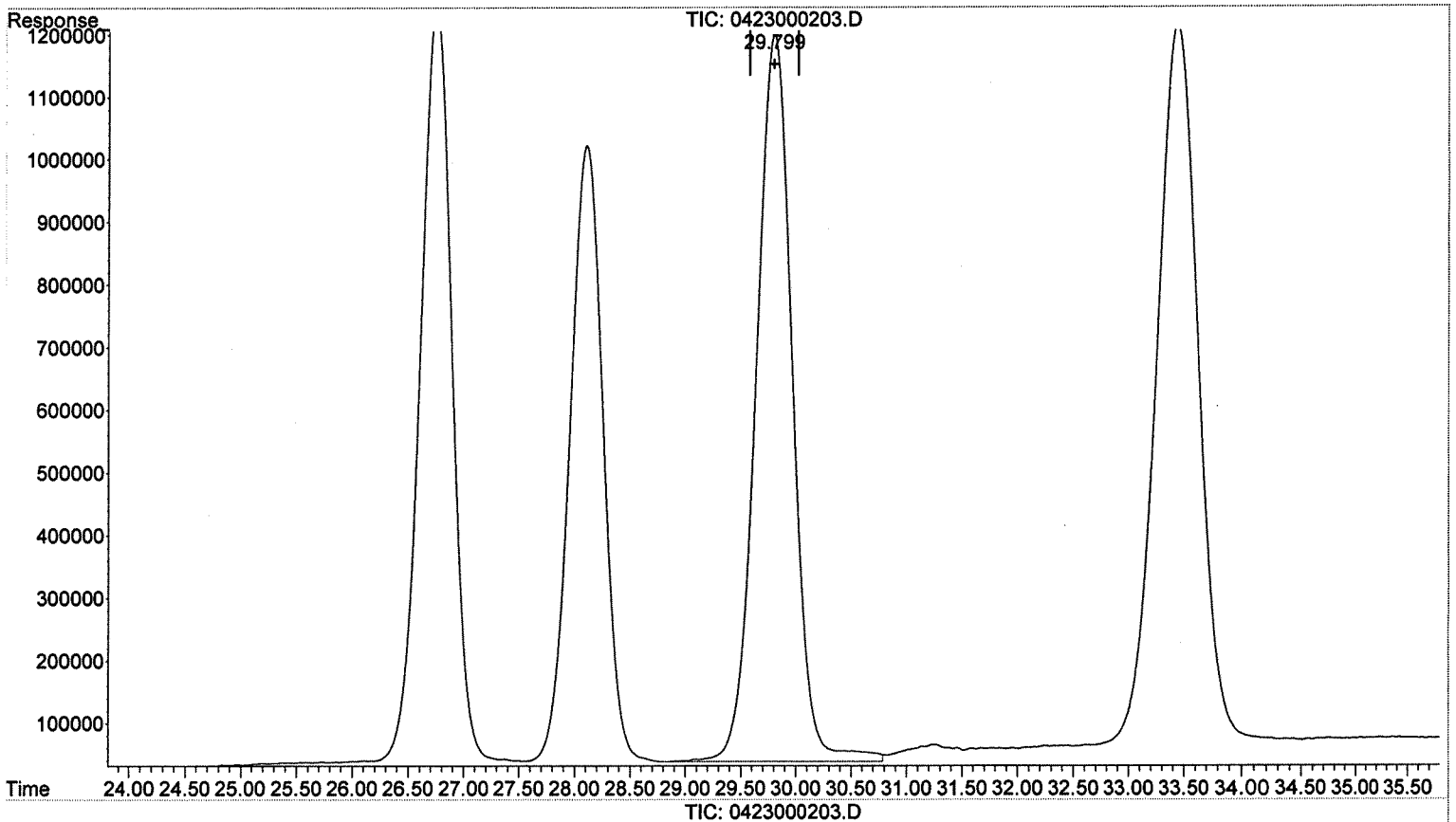
(11) 2,6-DNT (T)  
21.779min 1009.107 ug/L m  
response 28632586

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.799min 935.798 ug/L  
response 26622168

Manual Integration:  
Before

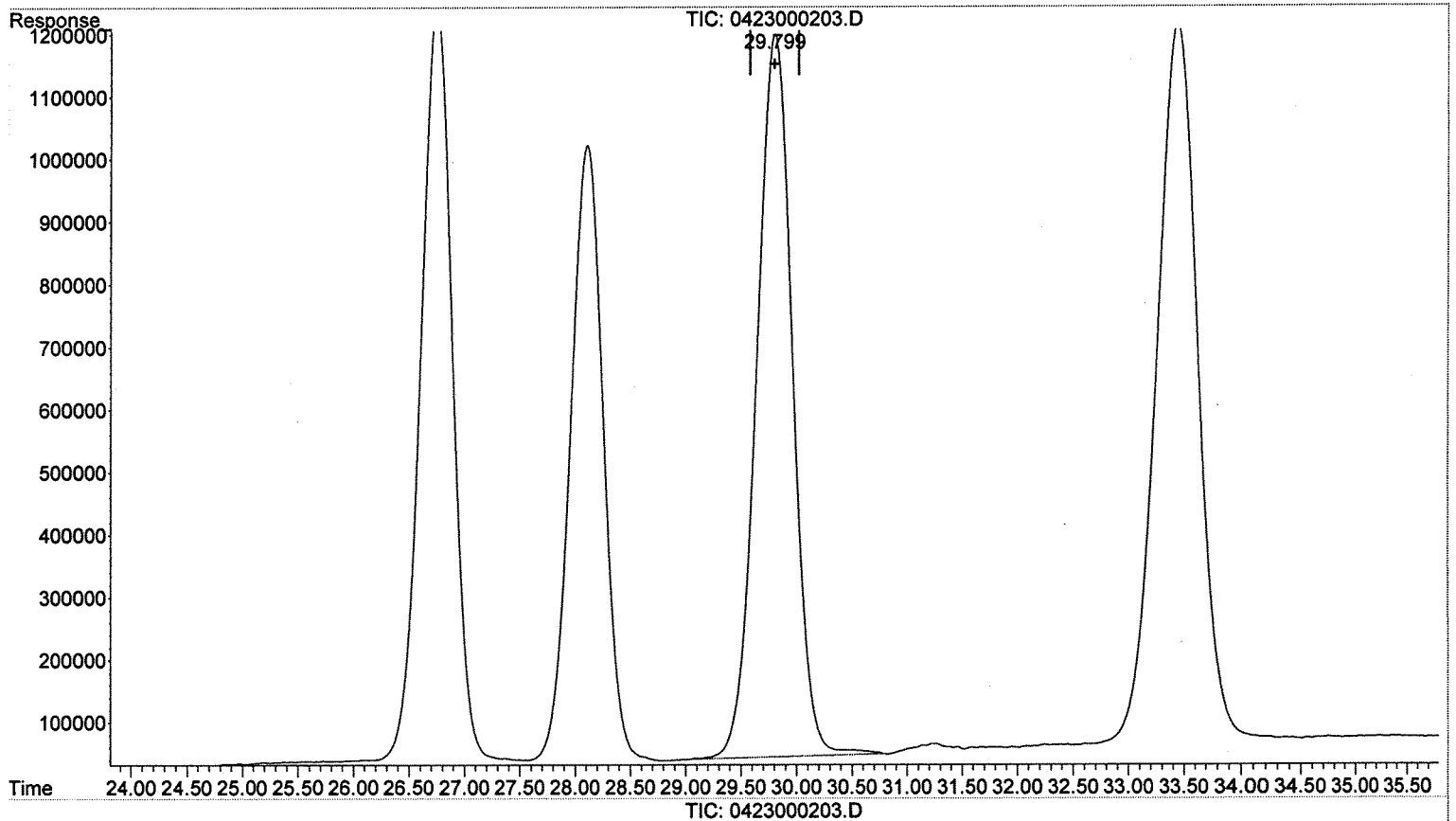
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.799min 911.665 ug/L m  
response 25935597

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:24:05 2015

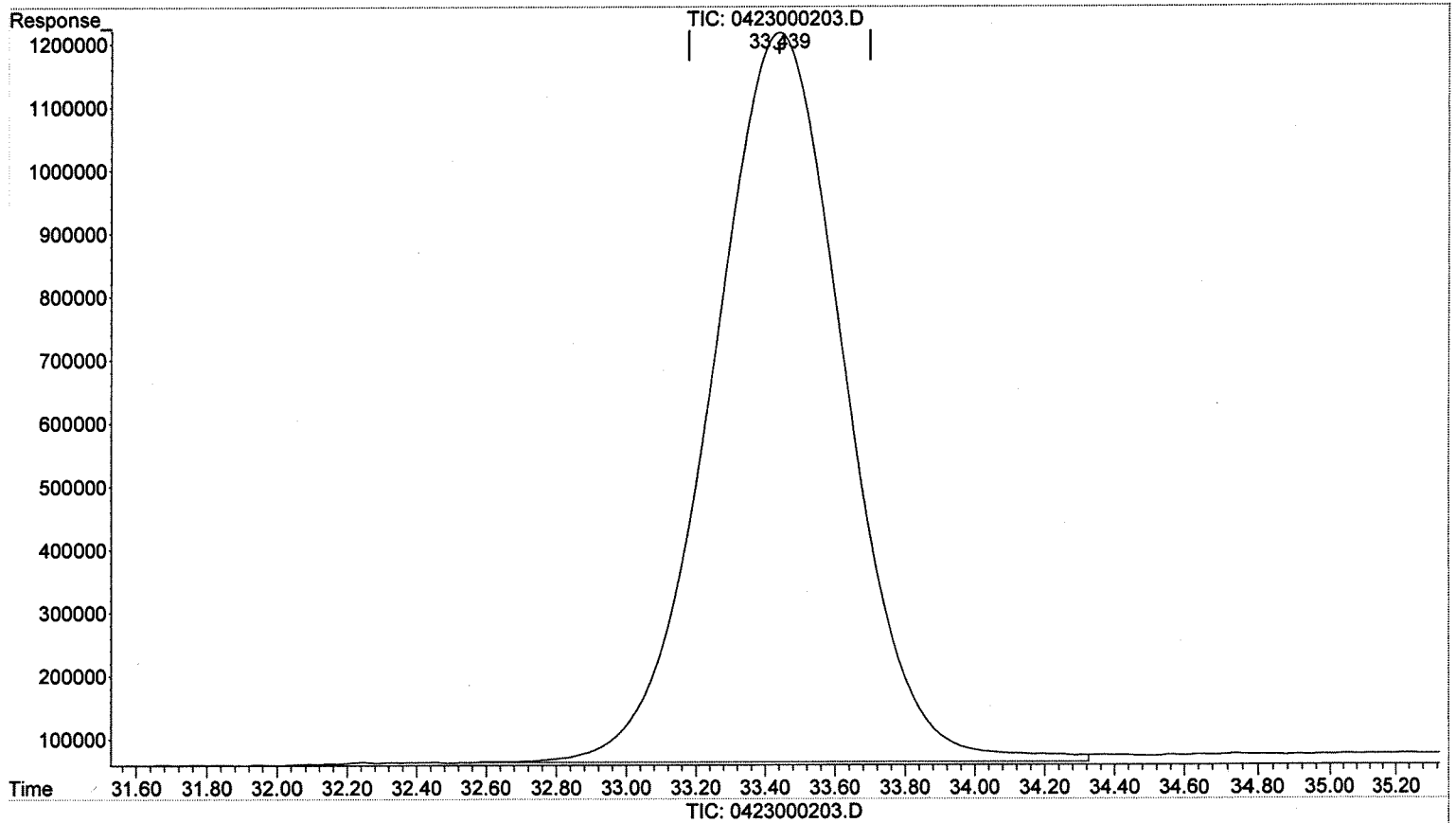
5/12/15jal2<sup>nd</sup>Rev

Page: 1

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(16) 1-Chloro-3-Nitrobenzene (S)  
33.439min 986.518 ug/L  
response 30313220

Manual Integration:  
Before

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 10:24:09 2015

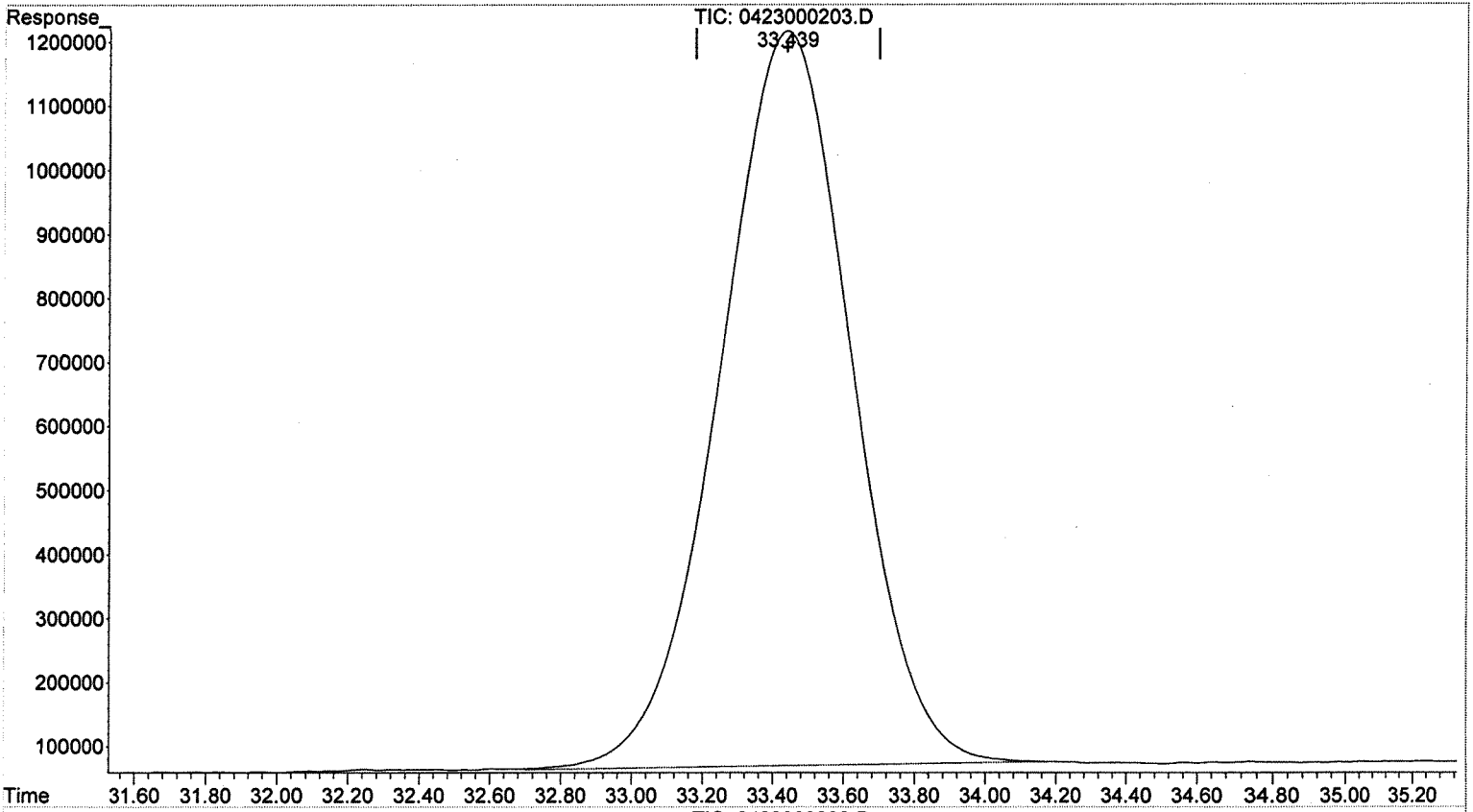
5/12/15jal2<sup>nd</sup>Rev

Page: 1

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000203.D  
Signal(s) : DAD1A.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:41:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:40:27 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



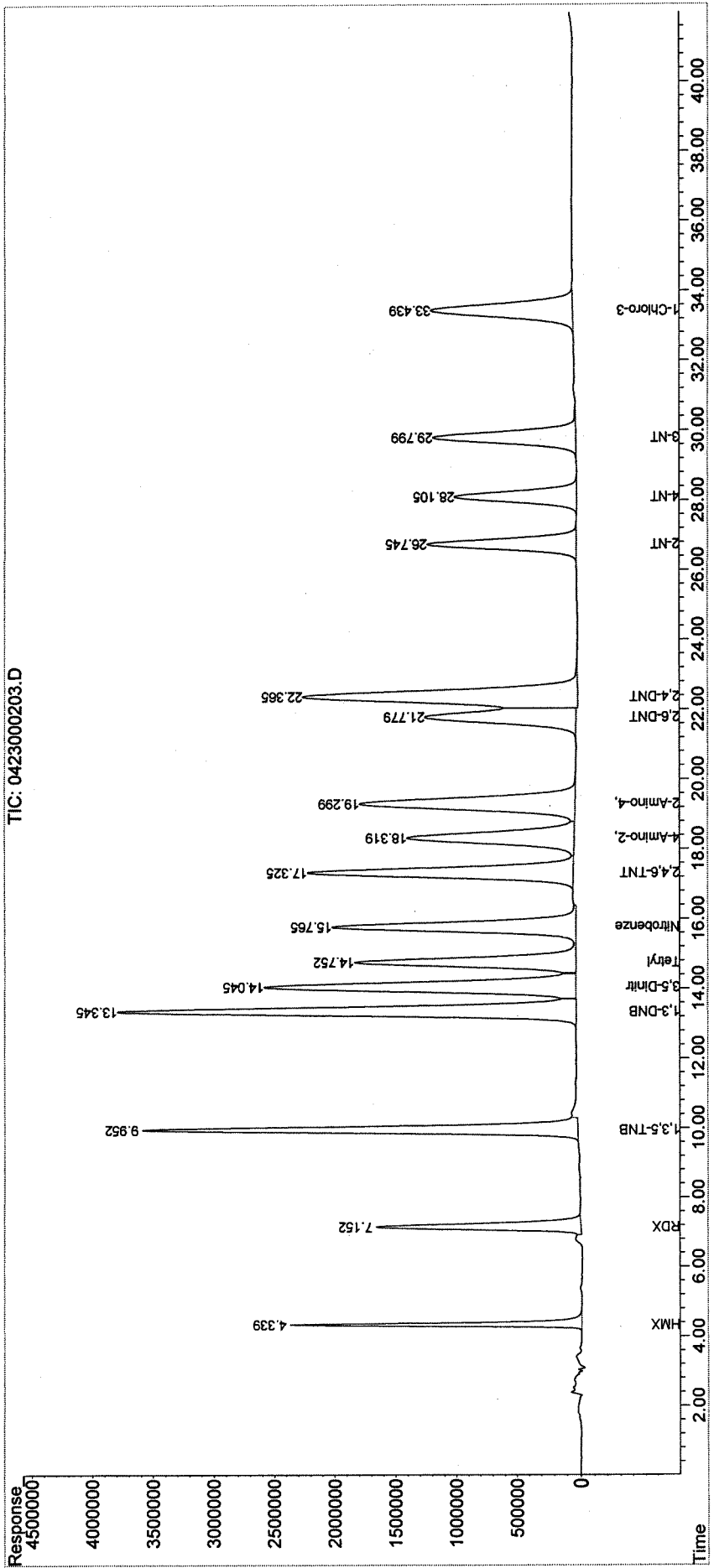
(16) 1-Chloro-3-Nitrobenzene (S)  
33.439min 964.137 ug/L m  
response 29625507

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000203.D  
 Signal(s) : DAD1A.ch  
 Acq On : 23-Apr-2015, 21:30:31  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 10:24:13 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CALL3891  
 QLast Update : Thu Apr 30 16:40:27 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000214.D  
**Lab ID:** KWG1503923-5  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/24/2015 10:29  
**Date Quantitated:** 05/01/2015 13:59  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: dw 5/5/15

Secondary Review: QW 5.12.15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\254\0423000214.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 10:29	<b>Quant Date:</b>	05/01/2015 13:59
<b>Run Type:</b>	CCV	<b>Vial:</b>	44
<b>Lab ID:</b>	KWG1503923-5	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>		<b>Tier:</b>		<b>Matrix:</b>	NOT APPLICABLE
<b>Prod Code:</b>	8330B NITRAMARO	<b>Collect Date:</b>		<b>Receive Date:</b>	05/05/2015

<b>Analysis Lot:</b>	KWG1503923	<b>Prep Lot:</b>		<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>			
<b>Prep Ref:</b>		<b>Prep Date:</b>			

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>		<b>Quant based on Method</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.32		32606809	1,061		23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units:		Q	Rpt?
				Solution Conc	Final Conc		
HMX	4.33		16908084	1,097			
RDX	7.14		21931170	1,088			
1,3,5-Trinitrobenzene	9.93		49455386	1,092			
1,3-Dinitrobenzene	13.31		66679852	1,090			
3,5-Dinitroaniline	14.00		50281206	1,037			
TETRYL	14.71		28679404	813.77			
Nitrobenzene	15.73		38991438	1,006			
2,4,6-Trinitrotoluene	17.29		45664472	1,085			
4-Amino-2,6-dinitrotoluene	18.27		33270920	1,068			
2-Amino-4,6-dinitrotoluene	19.24		45300615	1,088			
2,6-Dinitrotoluene	21.73		31277850m	1,102			
2,4-Dinitrotoluene	22.31		57944509m	1,028			
2-Nitrotoluene	26.68		25576791m	1,010			
4-Nitrotoluene	28.03		21920175m	1,027			
3-Nitrotoluene	29.71		27449676m	964.89			

J: Undetected at or above MDL  
 f: Analyte detected above MDL, but below MRL  
 3: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 v: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000214.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 10:29:00  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:59:31 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.320	32606809	1061.161 ug/L
Target Compounds			
1) T HMX	4.327	16908084	1096.603 ug/L
2) T RDX	7.140	21931170	1088.210 ug/L
3) T 1,3,5-TNB	9.934	49455386	1091.949 ug/L
4) T 1,3-DNB	13.314	66679852	1090.351 ug/L
5) T 3,5-Dinitroaniline	14.000	50281206	1036.707 ug/L
6) T Tetryl	14.714	28679404	813.765 ug/L
7) T Nitrobenzene	15.727	38991438	1006.186 ug/L
8) T 2,4,6-TNT	17.294	45664472	1084.932 ug/L
9) T 4-Amino-2,6-DNT	18.267	33270920	1067.886 ug/L
10) T 2-Amino-4,6-DNT	19.240	45300615	1087.849 ug/L
11) T 2,6-DNT	21.727	31277850	1102.335 ug/L m
12) T 2,4-DNT	22.314	57944509	1027.761 ug/L m
13) T 2-NT	26.680	25576791	1010.069 ug/L m
14) T 4-NT	28.027	21920175	1026.547 ug/L m
15) T 3-NT	29.714	27449676	964.886 ug/L m
-----			

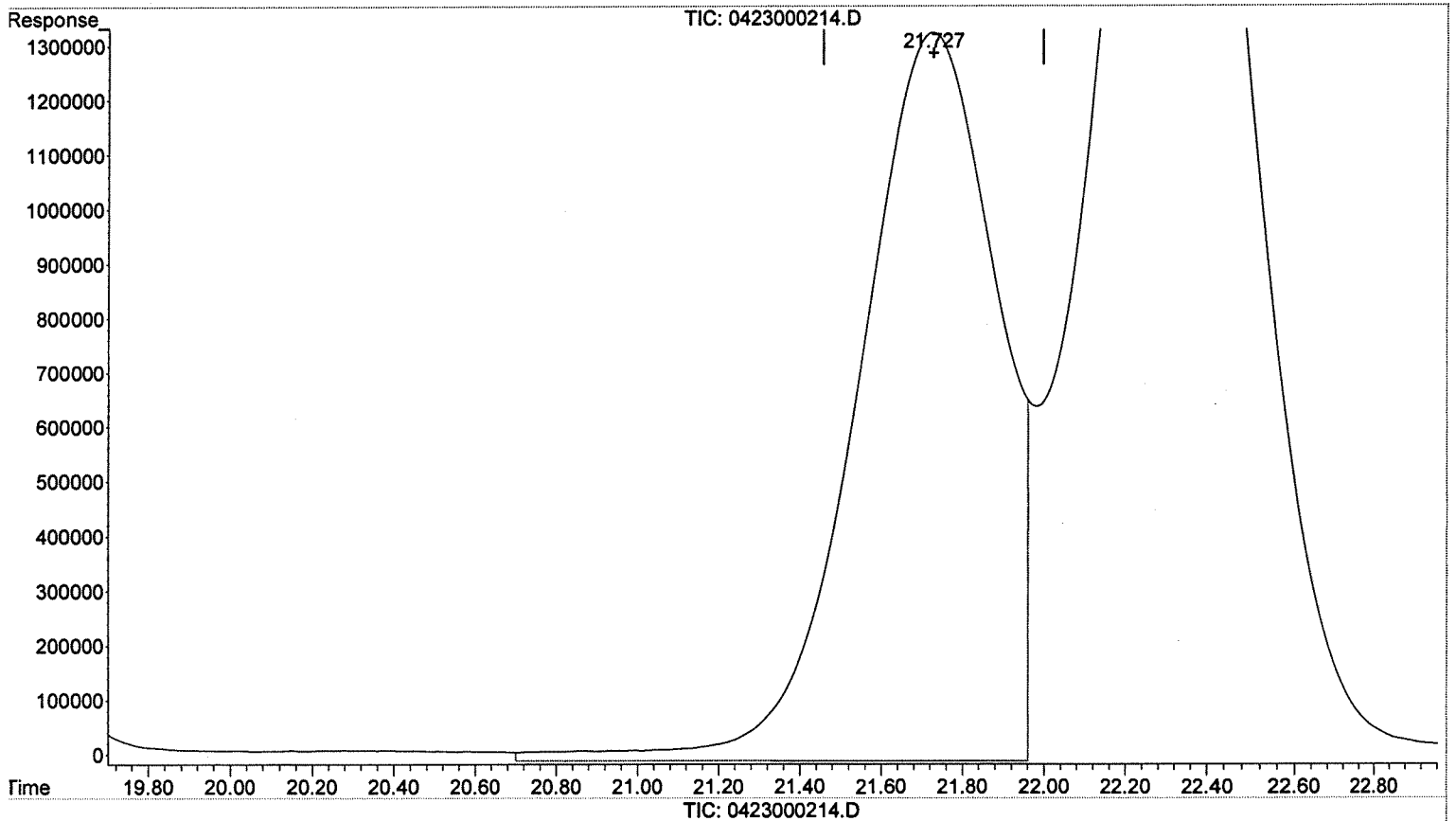
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.727min 1110.715 ug/L  
response 31515618

Manual Integration:  
Before

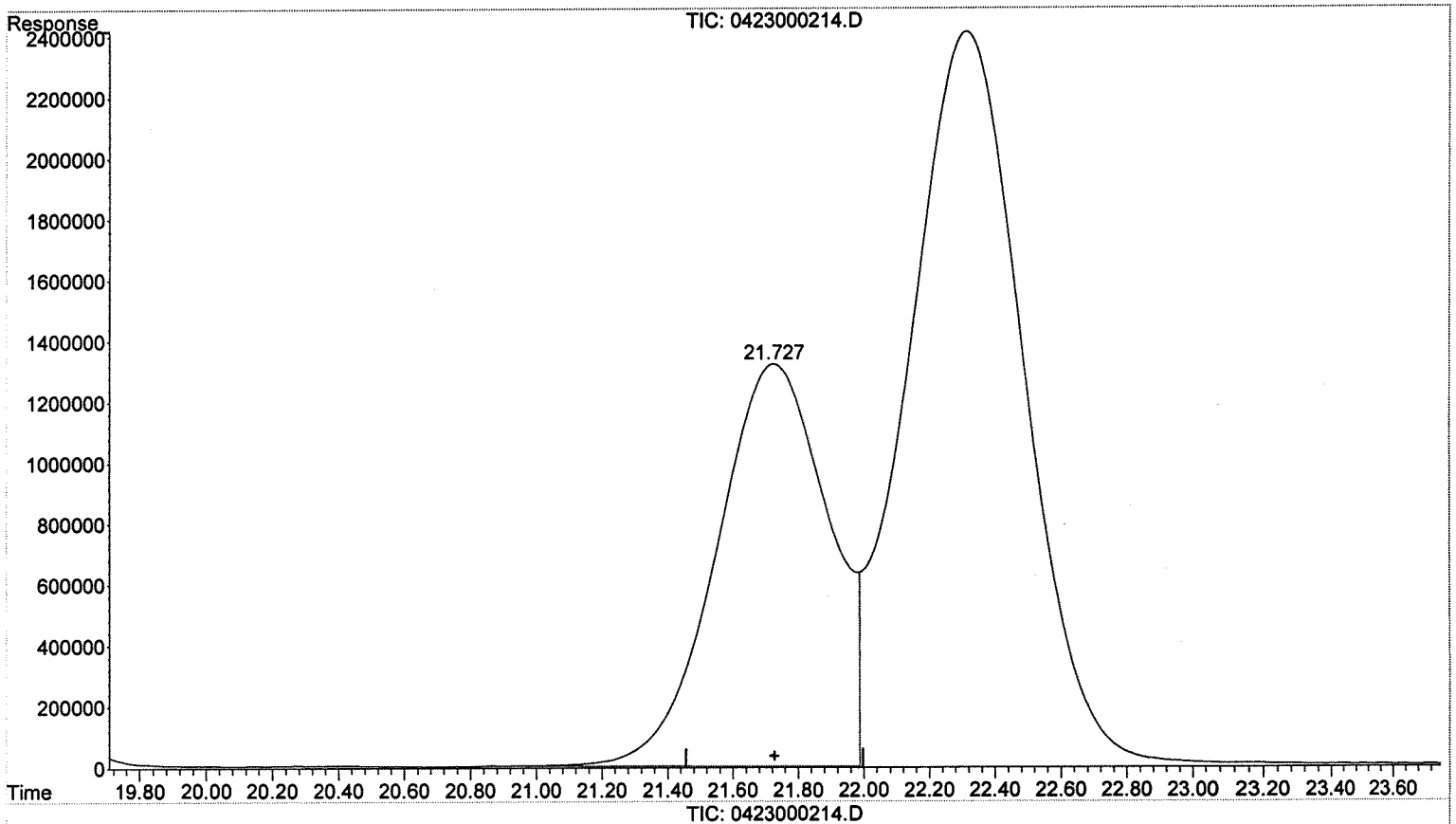
05/01/15



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.727min 1102.335 ug/L m  
response 31277850

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

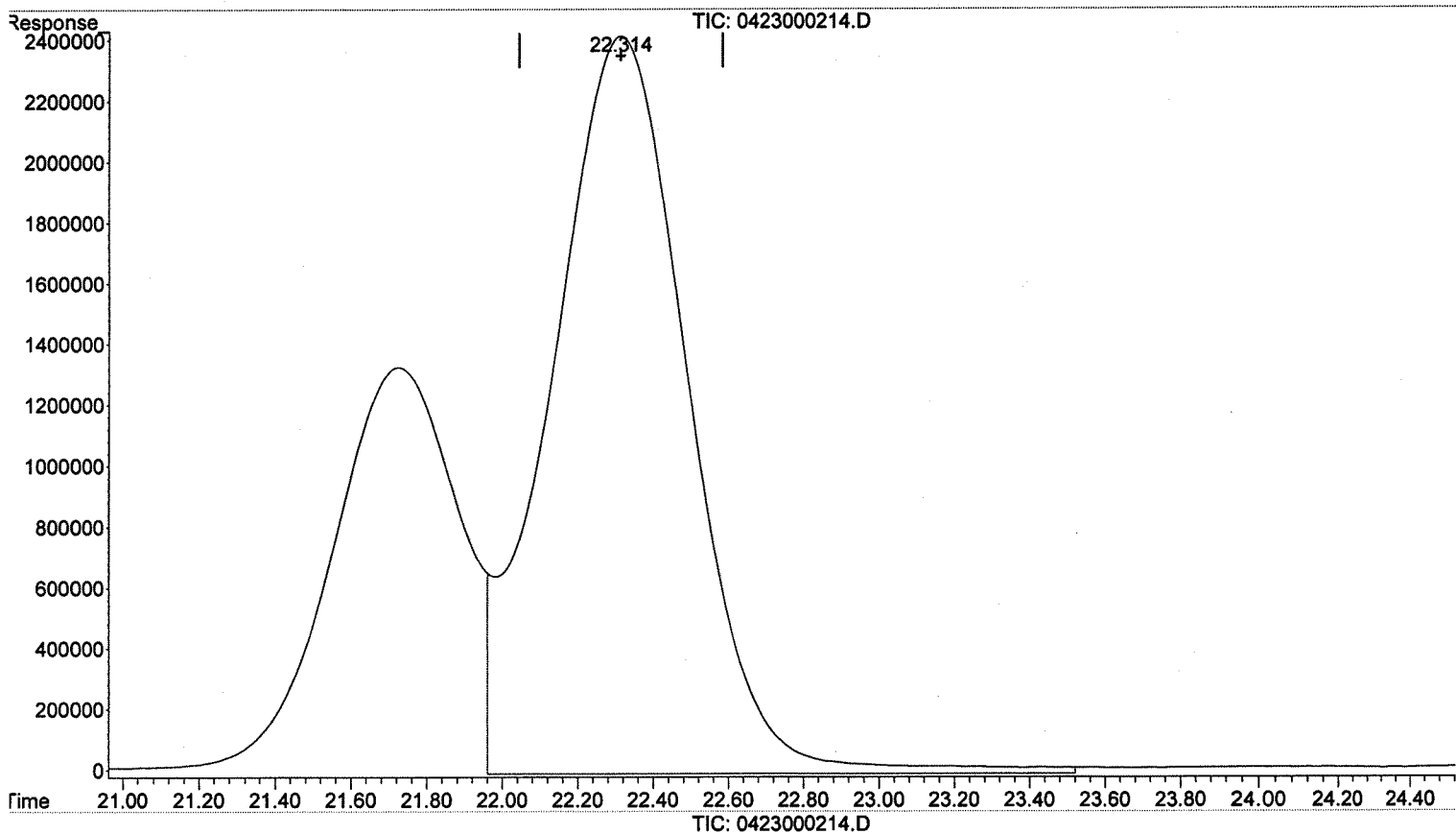
031615\_8330B@254.M Fri May 01 13:58:38 2015



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.314min 1083.512 ug/L  
response 61087695

Manual Integration:

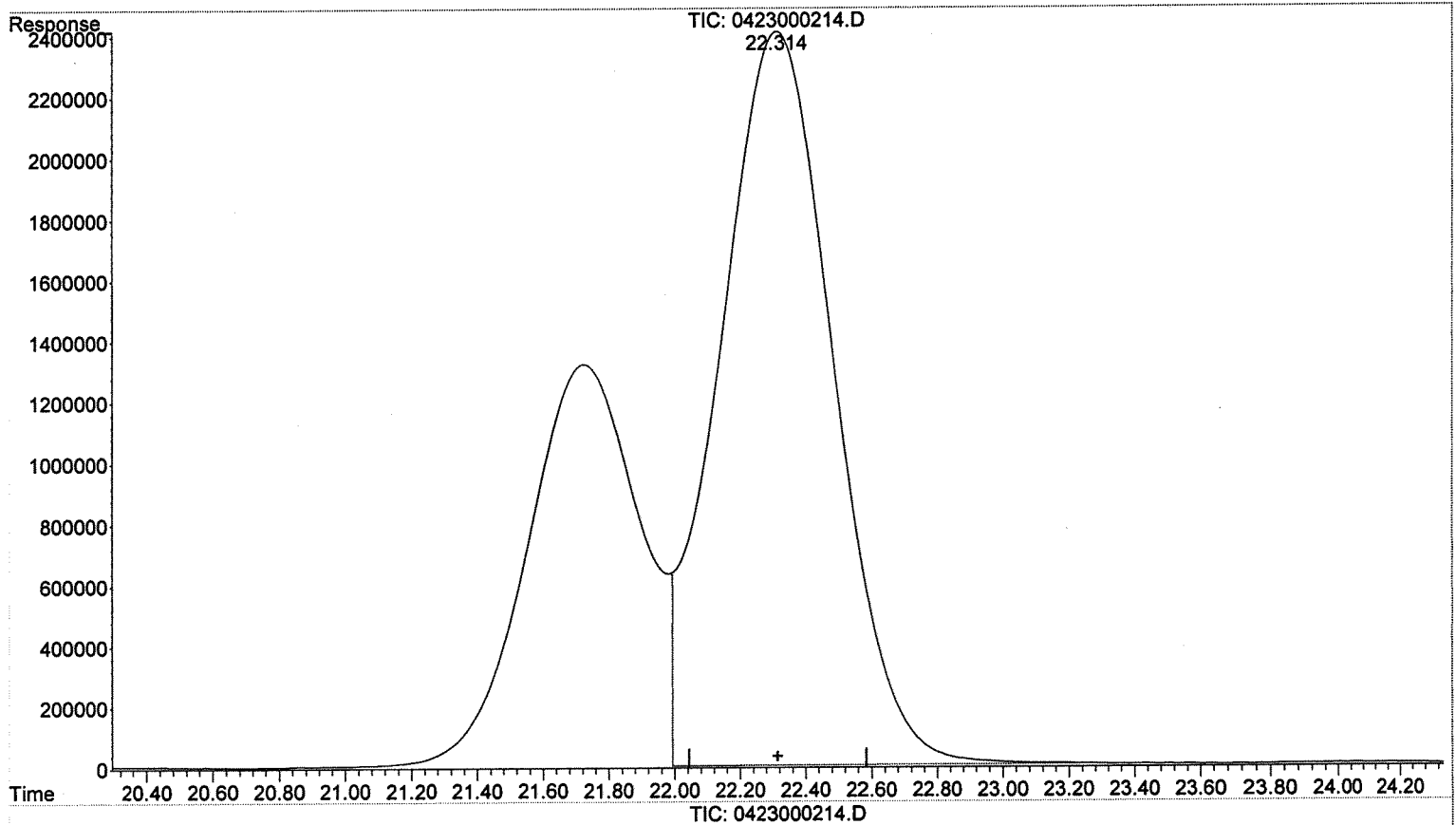
Before

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



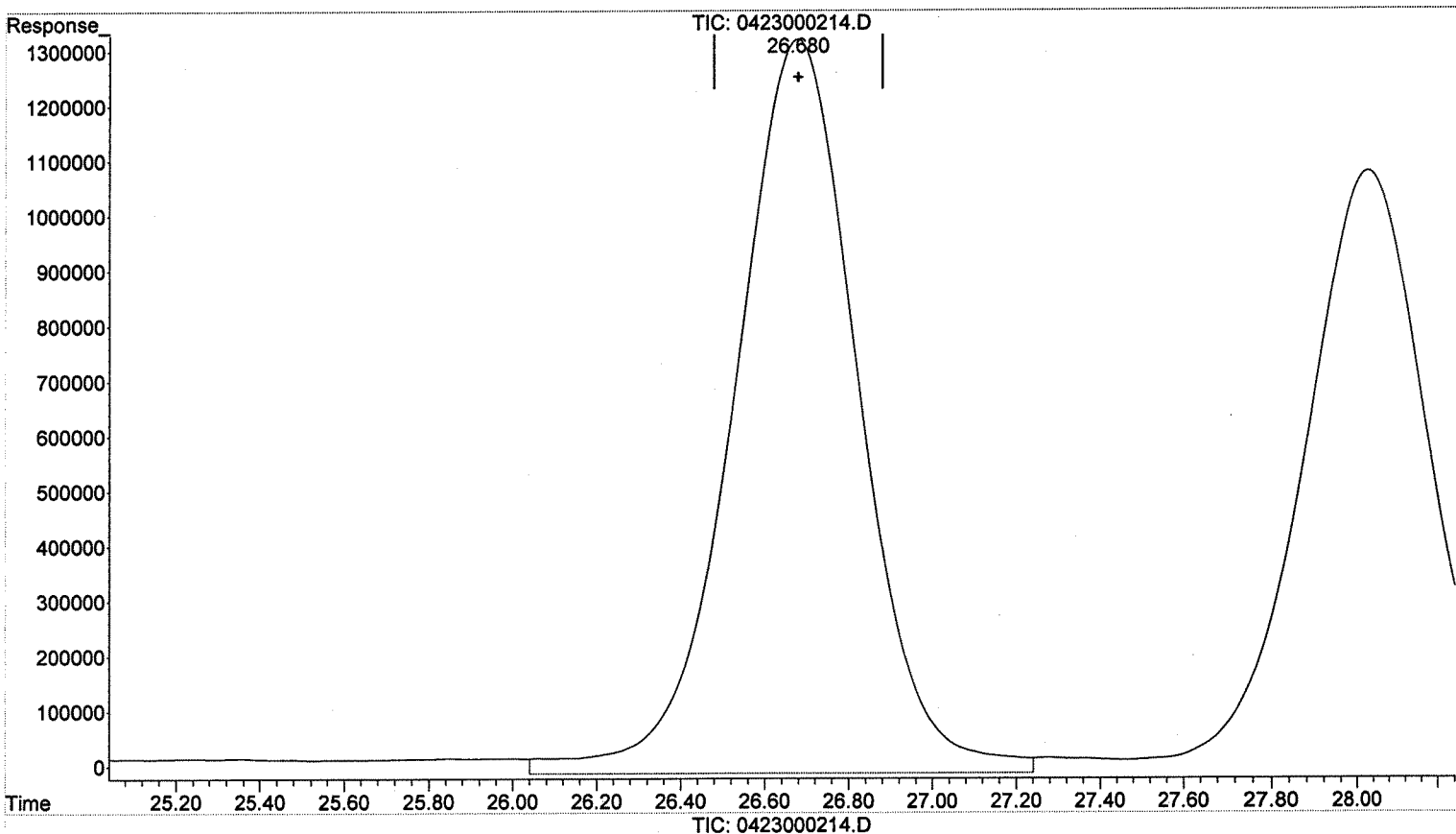
(12) 2,4-DNT (T)  
22.314min 1027.761 ug/L m  
response 57944509

Manual Integration:  
After  
BLC  
05/01/15

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.680min 1087.545 ug/L  
response 27538628

Manual Integration:

Before

05/01/15

(+) = Expected Retention Time

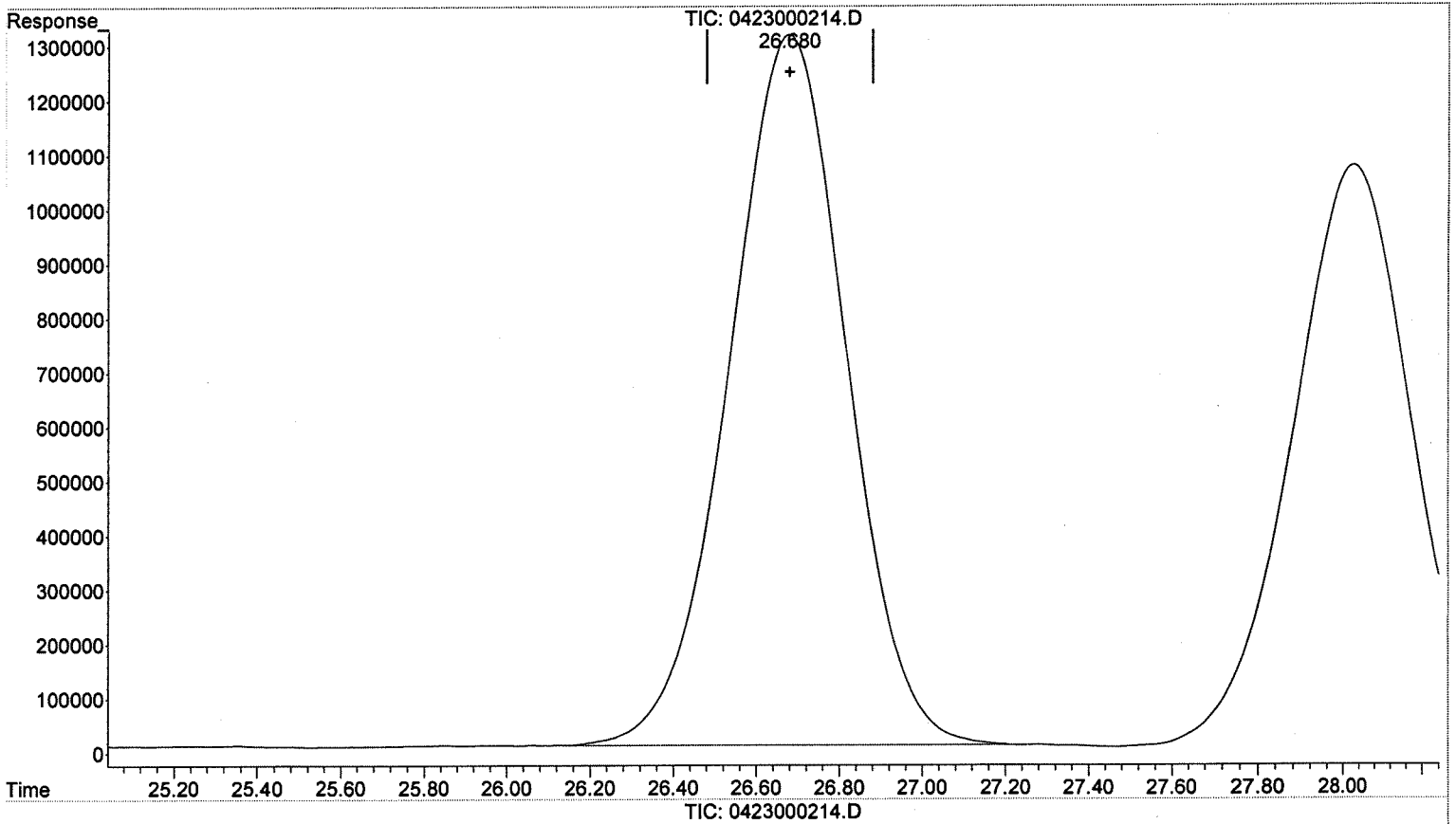
031615\_8330B@254.M Fri May 01 13:59:02 2015

Page: 1

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.680min 1010.069 ug/L m  
response 25576791

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 13:59:11 2015

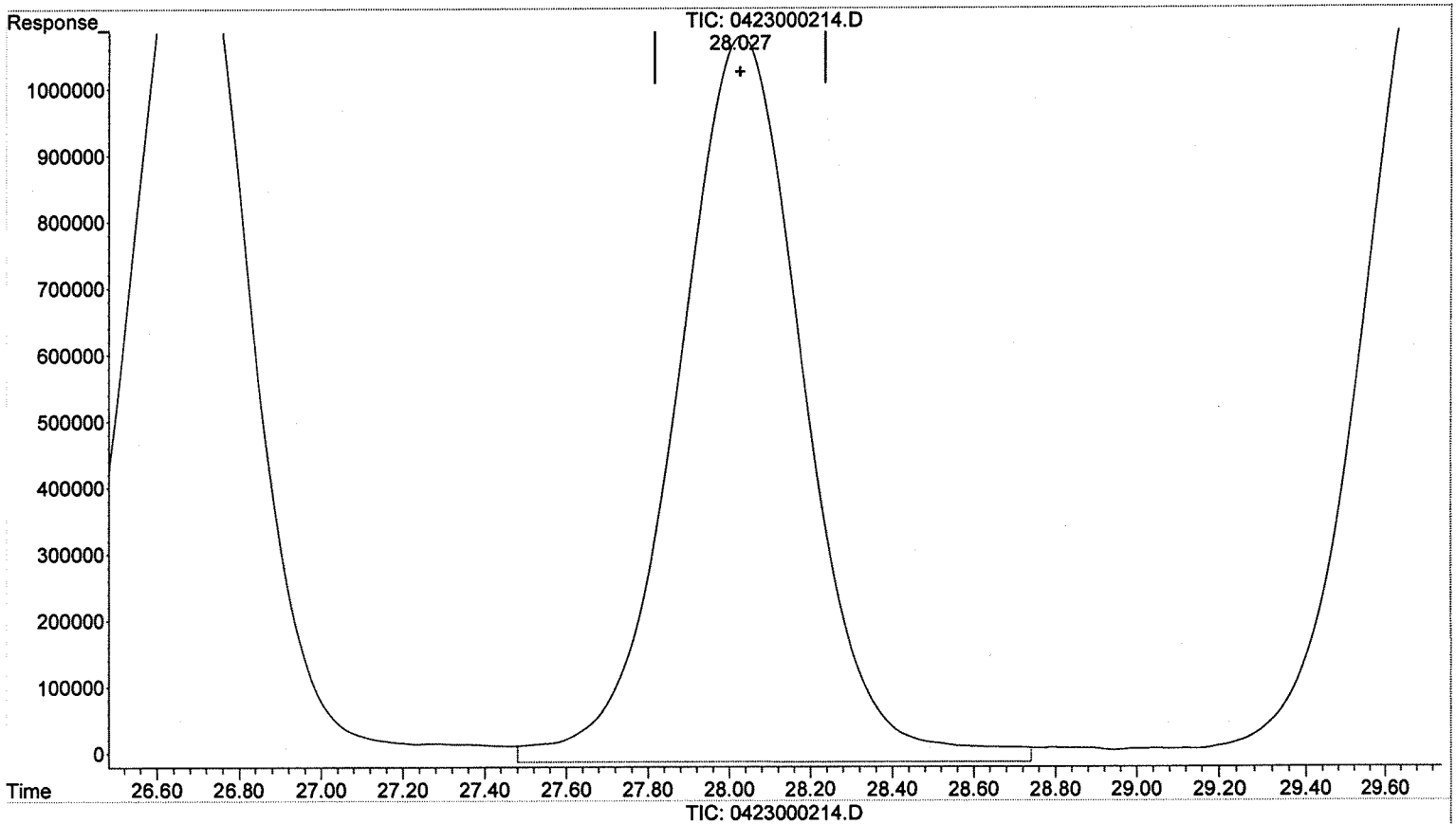
Page: 1

5/12/15jal2<sup>nd</sup>Rev

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
28.027min 1106.335 ug/L  
response 23623895

Manual Integration:  
Before

05/01/15

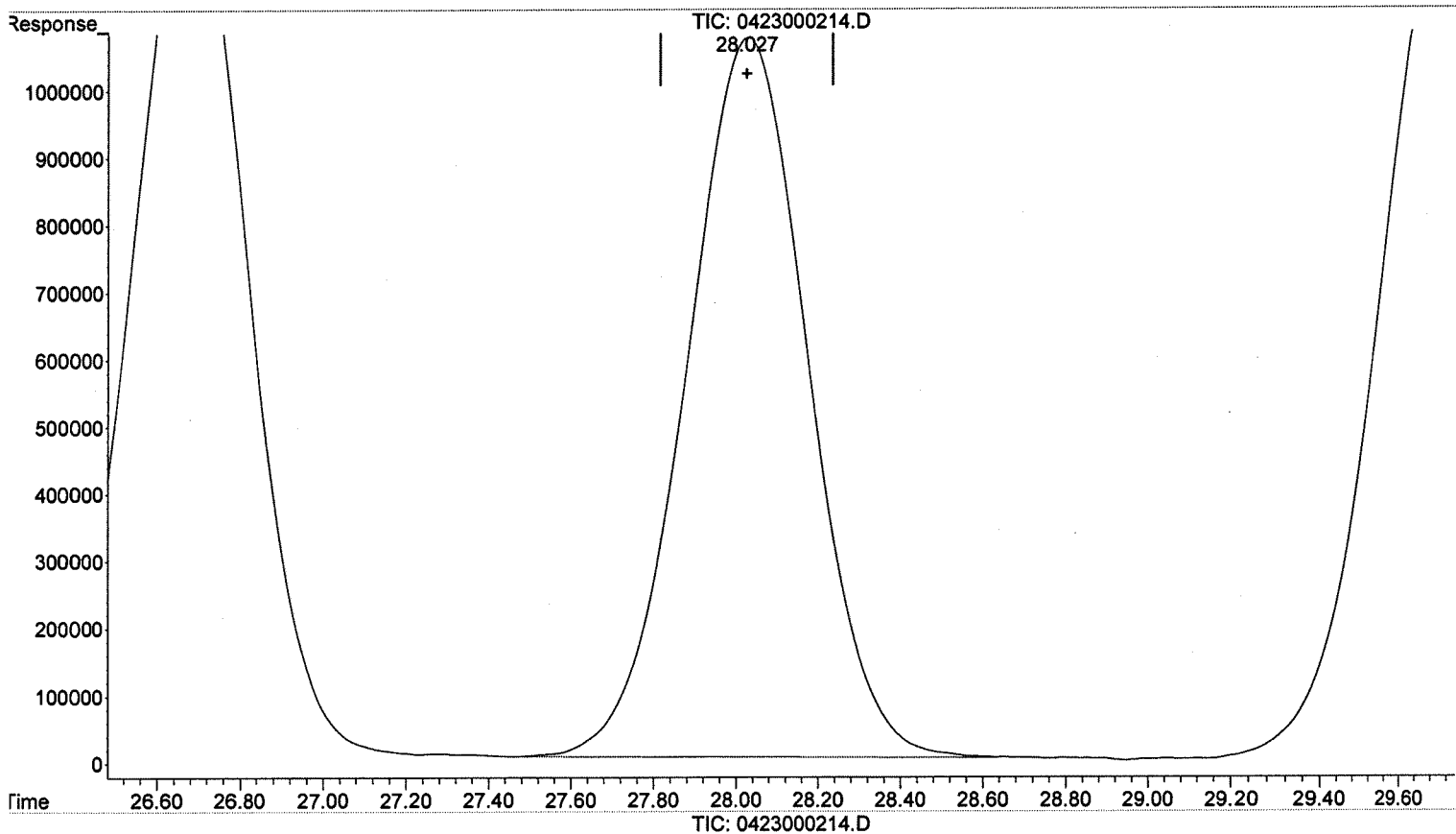
(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 13:59:15 2015

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)

28.027min 1026.547 ug/L m

response 21920175

Manual Integration:

After

BLC

05/01/15

(+) = Expected Retention Time

031615\_8330B@254.M Fri May 01 13:59:22 2015

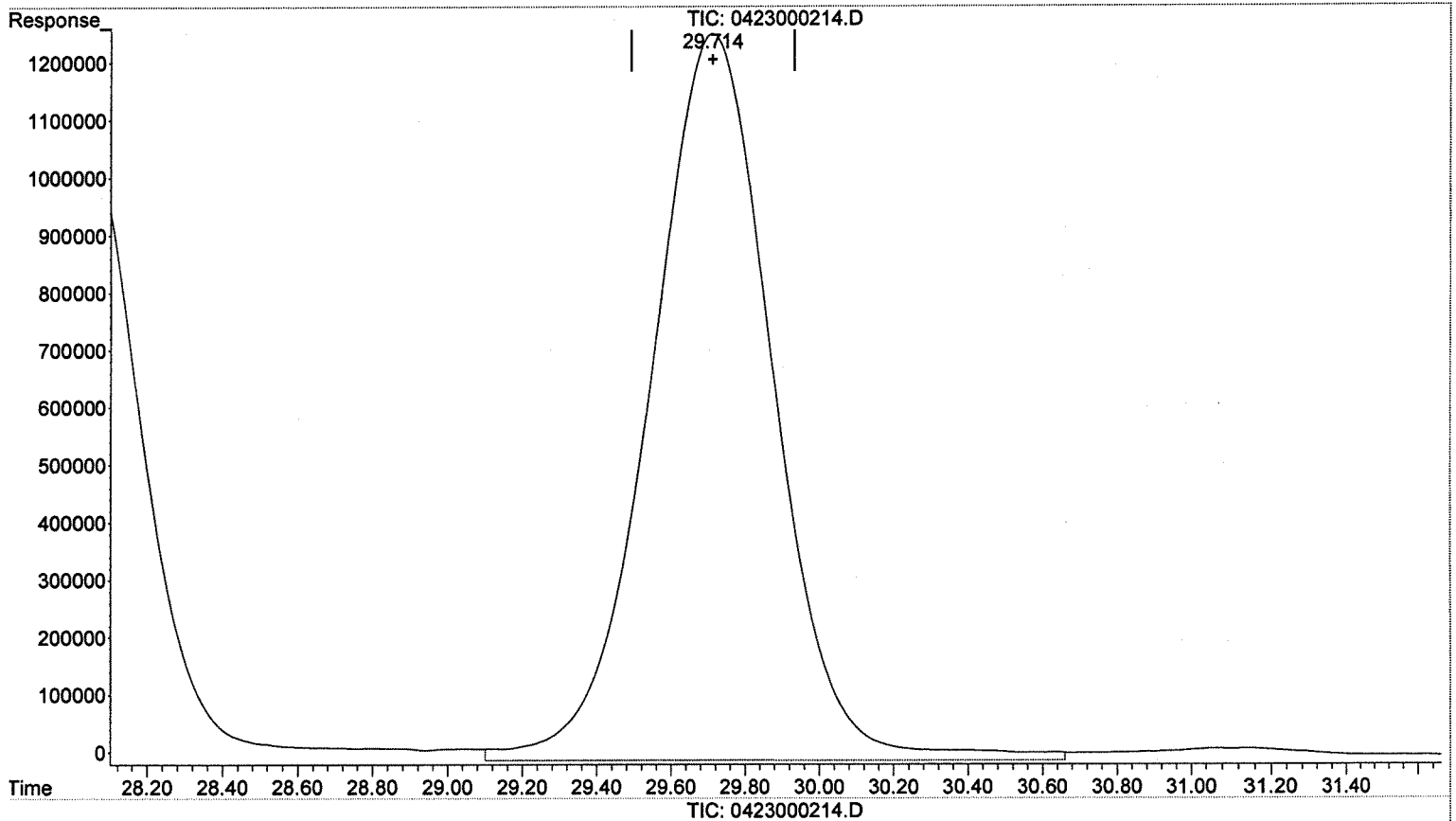
Page: 1

5/12/15jal2<sup>nd</sup>Rev

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.714min 1022.925 ug/L  
response 29100800

Manual Integration:  
Before

05/01/15

(+) = Expected Retention Time

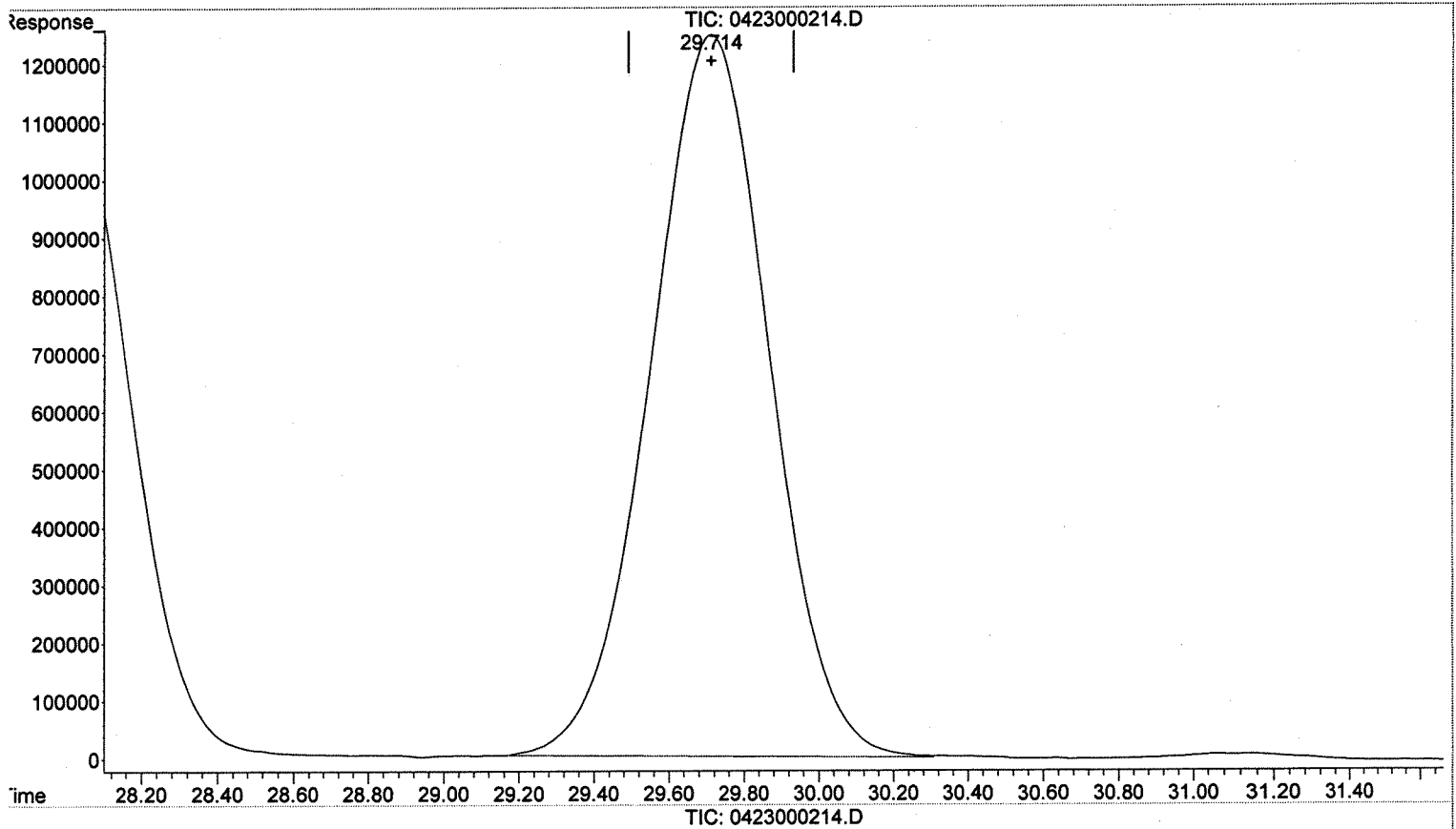
031615\_8330B@254.M Fri May 01 13:59:27 2015



Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000214.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:42:44 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(15) 3-NT (T)  
29.714min 964.886 ug/L m  
response 27449676

Manual Integration:

After

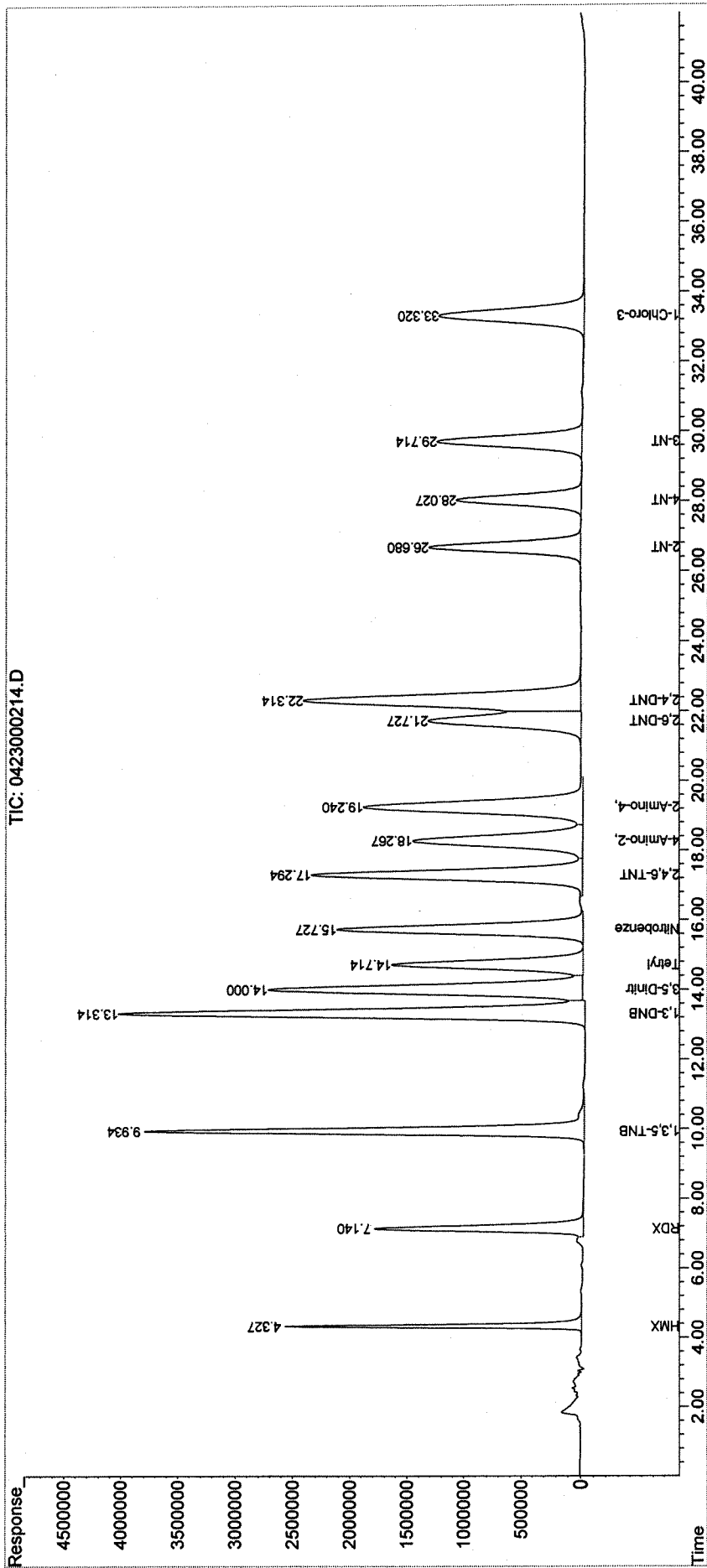
BLC

05/01/15

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000214.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 10:29:00  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:59:31 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000215.D  
**Lab ID:** KWG1503923-2  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/24/2015 11:39  
**Date Quantitated:** 05/01/2015 13:59  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: lu 5/5/15

Secondary Review: QA 5.12.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000215.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 11:39	<b>Quant Date:</b> 05/01/2015 13:59
<b>Run Type:</b> IB	<b>Vial:</b> 42
<b>Lab ID:</b> KWG1503923-2	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWGI503923	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0d			23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					ug/L		
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0d				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0d				
2-Nitrotoluene			0d				
4-Nitrotoluene			0d				
3-Nitrotoluene			0				

J: Undetected at or above MDL  
 I: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 V: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000215.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 11:39:47  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 13:59:59 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:42:29 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L d
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L d
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

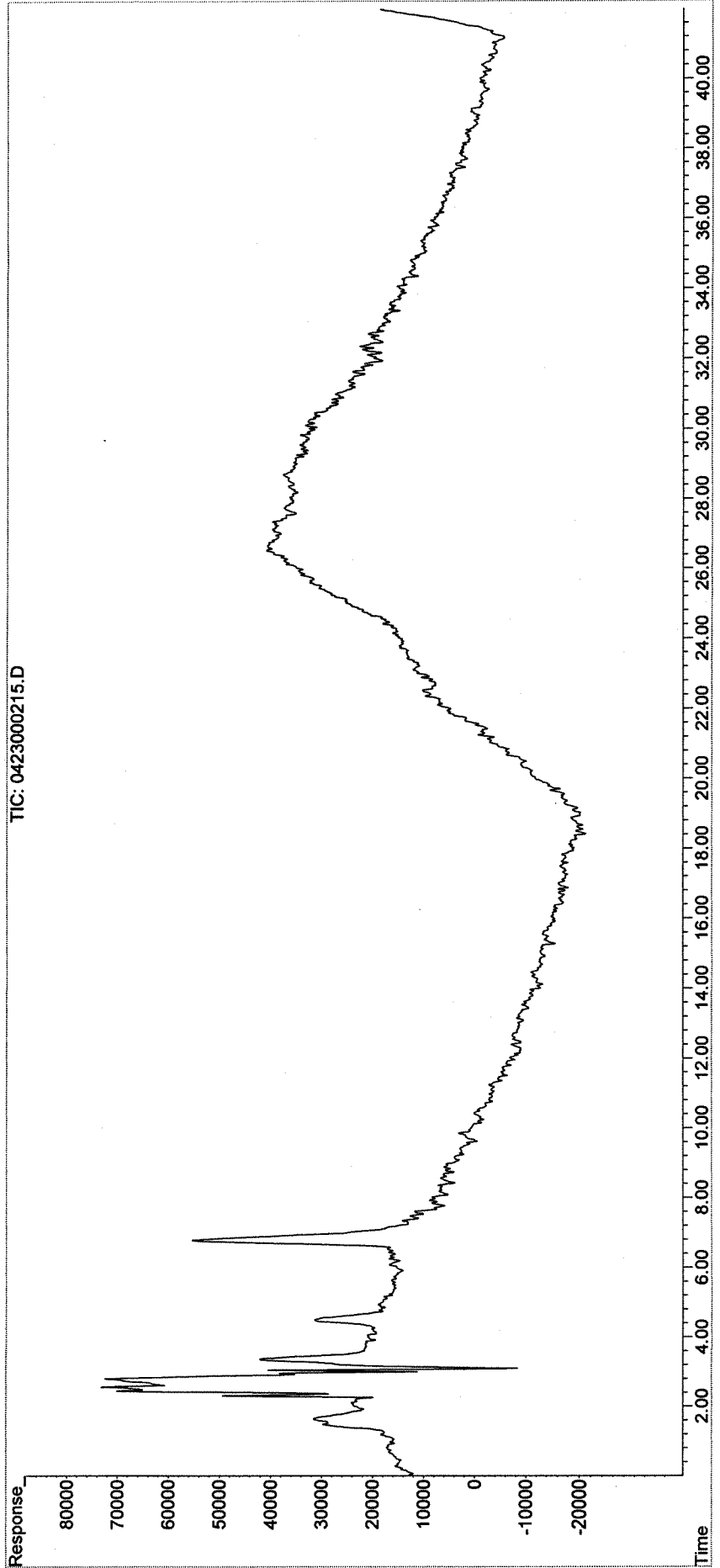
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000215.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 11:39:47  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 13:59:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:42:29 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000221.D  
**Lab ID:** KWG1503923-6  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/24/2015 18:44  
**Date Quantitated:** 04/30/2015 16:43  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: Dec 5/5/15

Secondary Review: 5.12.15





Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000221.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 18:44:27  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Apr 30 16:43:39 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:43:18 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.234	30159403	981.513 ug/L
Target Compounds			
1) T HMX	4.314	15595727	1011.488 ug/L
2) T RDX	7.101	20655438	1024.665 ug/L
3) T 1,3,5-TNB	9.901	45054012	994.769 ug/L
4) T 1,3-DNB	13.241	62230307	1017.592 ug/L
5) T 3,5-Dinitroaniline	13.868	46923282	967.472 ug/L
6) T Tetryl	14.614	24109358	684.092 ug/L
7) T Nitrobenzene	15.654	36331291	937.541 ug/L
8) T 2,4,6-TNT	17.208	41716569	991.135 ug/L
9) T 4-Amino-2,6-DNT	18.108	30144872	967.550 ug/L
10) T 2-Amino-4,6-DNT	19.074	41314789	992.133 ug/L
11) T 2,6-DNT	21.614	27897954	983.216 ug/L
12) T 2,4-DNT	22.194	55750870	988.853 ug/L
13) T 2-NT	26.621	24133390	953.067 ug/L
14) T 4-NT	27.974	20902372	978.883 ug/L
15) T 3-NT	29.648	26178928	920.218 ug/L
-----			

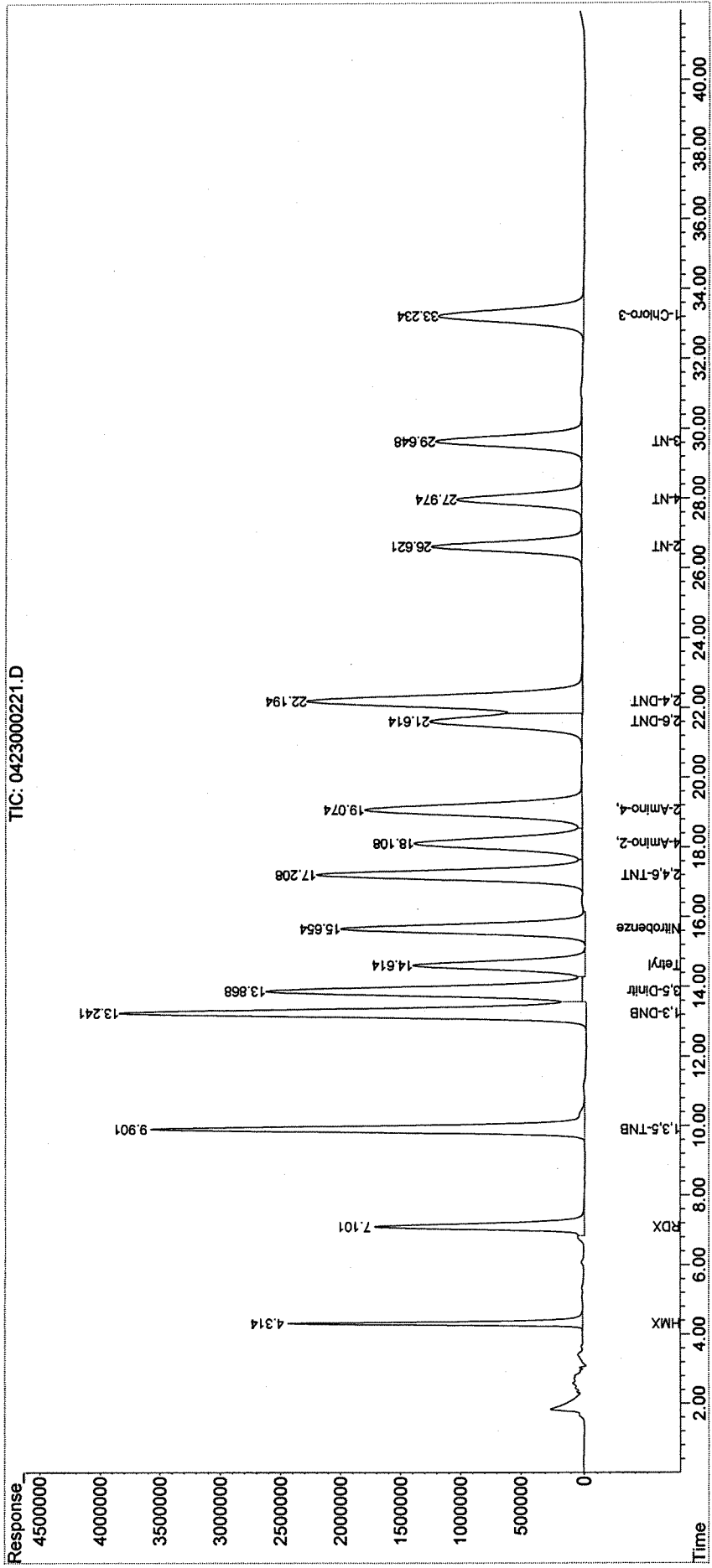
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000221.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 18:44:27  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Apr 30 16:43:39 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:43:18 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



5/12/15jal2ndRev

# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000222.D  
**Lab ID:** KWG1503923-3  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/24/2015 19:55  
**Date Quantitated:** 05/01/2015 14:15  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review:     *5/5/15*    

Secondary Review:     *QA 5.12.15*

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\254\0423000222.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/24/2015 19:55	<b>Quant Date:</b>	05/01/2015 14:15
<b>Run Type:</b>	IB	<b>Vial:</b>	42
<b>Lab ID:</b>	KWG1503923-3	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>		<b>Tier:</b>		<b>Matrix:</b>	NOT APPLICABLE
<b>Prod Code:</b>	8330B NITRAMARO	<b>Collect Date:</b>		<b>Receive Date:</b>	05/05/2015

<b>Analysis Lot:</b>	KWG1503923	<b>Prep Lot:</b>		<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>			
<b>Prep Ref:</b>		<b>Prep Date:</b>			

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>		<b>Quant based on Method</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0			23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					ug/L		
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0d				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0d				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0d				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0d				
2-Nitrotoluene			0d				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000222.D  
 Signal(s) : DAD1A.ch  
 Acq On : 24-Apr-2015, 19:55:16  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:15:27 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:43:18 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L d
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L d
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L d
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

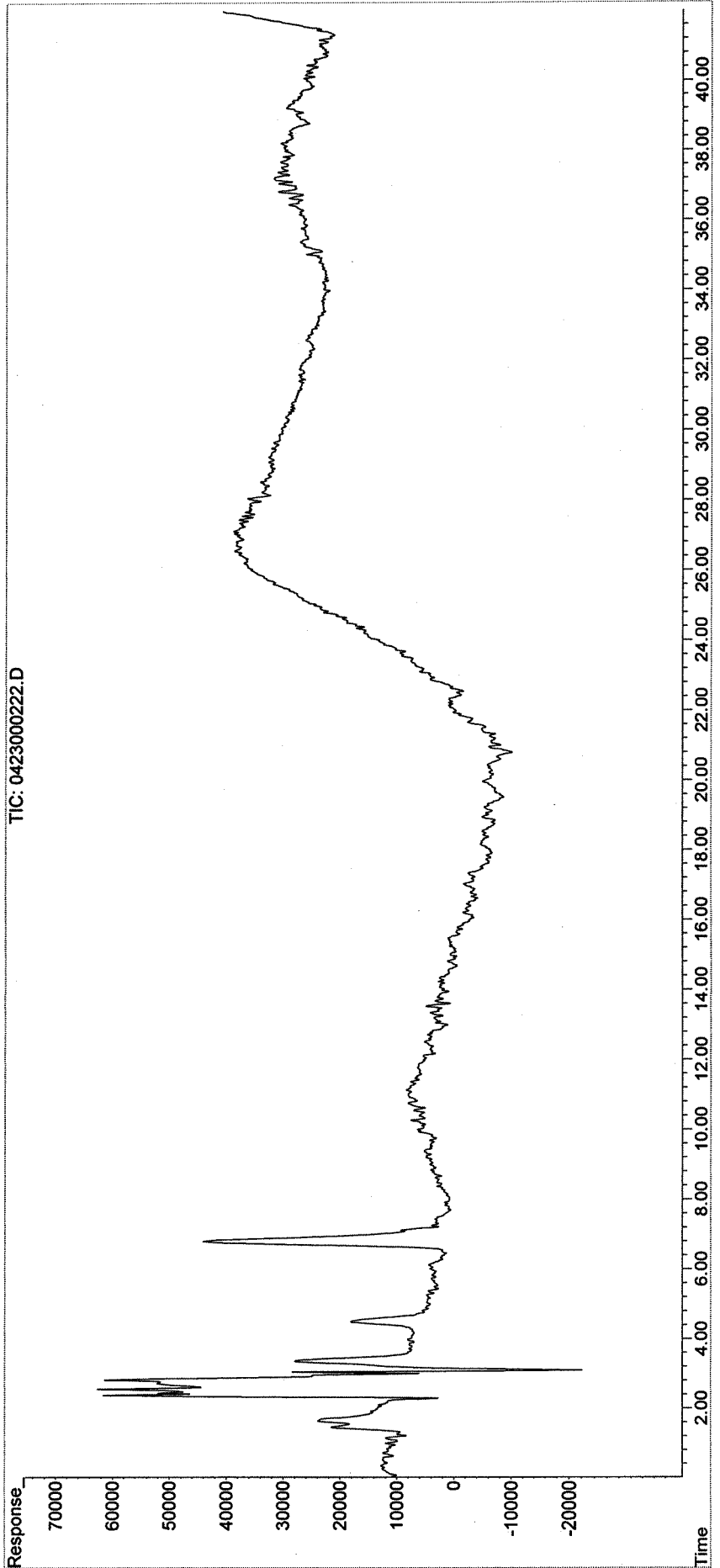
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000222.D  
Signal(s) : DAD1A.ch  
Acq On : 24-Apr-2015, 19:55:16  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 14:15:27 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:43:18 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000233.D  
**Lab ID:** KWG1503923-10  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/25/2015 08:53  
**Date Quantitated:** 04/30/2015 16:45  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review:     *lu 5/11/15*    

Secondary Review:     *joa 5/12/15*

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000233.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/25/2015 08:53	<b>Quant Date:</b> 04/30/2015 16:45
<b>Run Type:</b> CCV	<b>Vial:</b> 44
<b>Lab ID:</b> KWG1503923-10	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.17		32365199	1,053		23-98 NA	

## Target Compounds

			Final Conc. Units: ug/L				
Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.31		16913555	1,097			
RDX	7.10		22064455	1,095			
1,3,5-Trinitrobenzene	9.89		47461804	1,048			
1,3-Dinitrobenzene	13.22		67038979	1,096			
3,5-Dinitroaniline	13.84		51241199	1,057			
TETRYL	14.58		19286670	547.25			
Nitrobenzene	15.62		39148290	1,010			
2,4,6-Trinitrotoluene	17.16		45154336	1,073			
4-Amino-2,6-dinitrotoluene	18.03		32371159	1,039			
2-Amino-4,6-dinitrotoluene	18.99		44007824	1,057			
2,6-Dinitrotoluene	21.53		31651150	1,115			
2,4-Dinitrotoluene	22.11		59432174	1,054			
2-Nitrotoluene	26.56		26756283	1,057			
4-Nitrotoluene	27.90		22978114	1,076			
3-Nitrotoluene	29.58		28110529	988.12			

f: Undetected at or above MDL  
 : Analyte detected above MDL, but below MRL  
 #: Hit above MRL also found in Method Blank  
 : Analyte concentration above high point of ICAL  
 f: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ? : Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000233.D  
 Signal(s) : DAD1A.ch  
 Acq On : 25-Apr-2015, 08:53:55  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Apr 30 16:45:12 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:44:58 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.171	32365199	1053.298 ug/L
Target Compounds			
1) T HMX	4.311	16913555	1096.958 ug/L
2) T RDX	7.098	22064455	1094.848 ug/L
3) T 1,3,5-TNB	9.891	47461804	1047.931 ug/L
4) T 1,3-DNB	13.224	67038979	1096.224 ug/L
5) T 3,5-Dinitroaniline	13.838	51241199	1056.500 ug/L
6) T Tetryl	14.578	19286670	547.251 ug/L
7) T Nitrobenzene	15.618	39148290	1010.234 ug/L
8) T 2,4,6-TNT	17.158	45154336	1072.812 ug/L
9) T 4-Amino-2,6-DNT	18.031	32371159	1039.006 ug/L
10) T 2-Amino-4,6-DNT	18.991	44007824	1056.804 ug/L
11) T 2,6-DNT	21.531	31651150	1115.491 ug/L
12) T 2,4-DNT	22.111	59432174	1054.148 ug/L
13) T 2-NT	26.558	26756283	1056.649 ug/L
14) T 4-NT	27.904	22978114	1076.092 ug/L
15) T 3-NT	29.584	28110529	988.116 ug/L
-----			

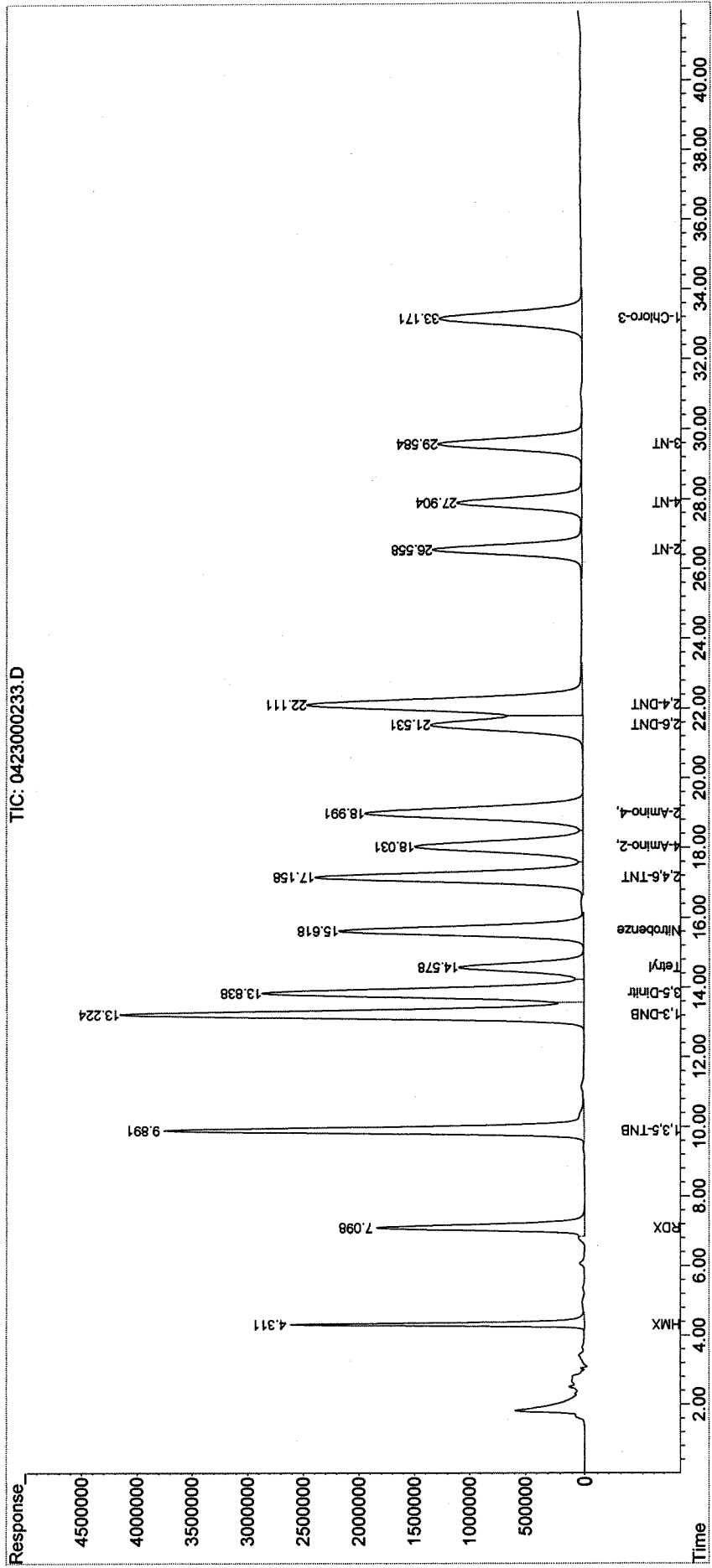
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000233.D  
 Signal(s) : DAD1A.ch  
 Acq On : 25-Apr-2015, 08:53:55  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Apr 30 16:45:12 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:44:58 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



5/12/15jal2ndRev

# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000234.D  
**Lab ID:** KWG1503923-7  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/25/2015 10:04  
**Date Quantitated:** 05/01/2015 14:33  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review:     *lu* 5/11/15    

Secondary Review:     *JA* 5.12.15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\254\0423000234.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/25/2015 10:04	<b>Quant Date:</b>	05/01/2015 14:33
<b>Run Type:</b>	IB	<b>Vial:</b>	42
<b>Lab ID:</b>	KWG1503923-7	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>		<b>Tier:</b>		<b>Matrix:</b>	NOT APPLICABLE
<b>Prod Code:</b>	8330B NITRAMARO	<b>Collect Date:</b>		<b>Receive Date:</b>	05/05/2015

<b>Analysis Lot:</b>	KWG1503923	<b>Prep Lot:</b>		<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>			
<b>Prep Ref:</b>		<b>Prep Date:</b>			

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>		<b>Quant based on Method</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0			23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					ug/L		
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0d				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0d				
2,6-Dinitrotoluene			0d				
2,4-Dinitrotoluene			0d				
2-Nitrotoluene			0d				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

J: Undetected at or above MDL  
 f: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000234.D  
 Signal(s) : DAD1A.ch  
 Acq On : 25-Apr-2015, 10:04:43  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 01 14:33:41 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:44:58 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L d
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L d
11) T 2,6-DNT	0.000	0	N.D.	ug/L d
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

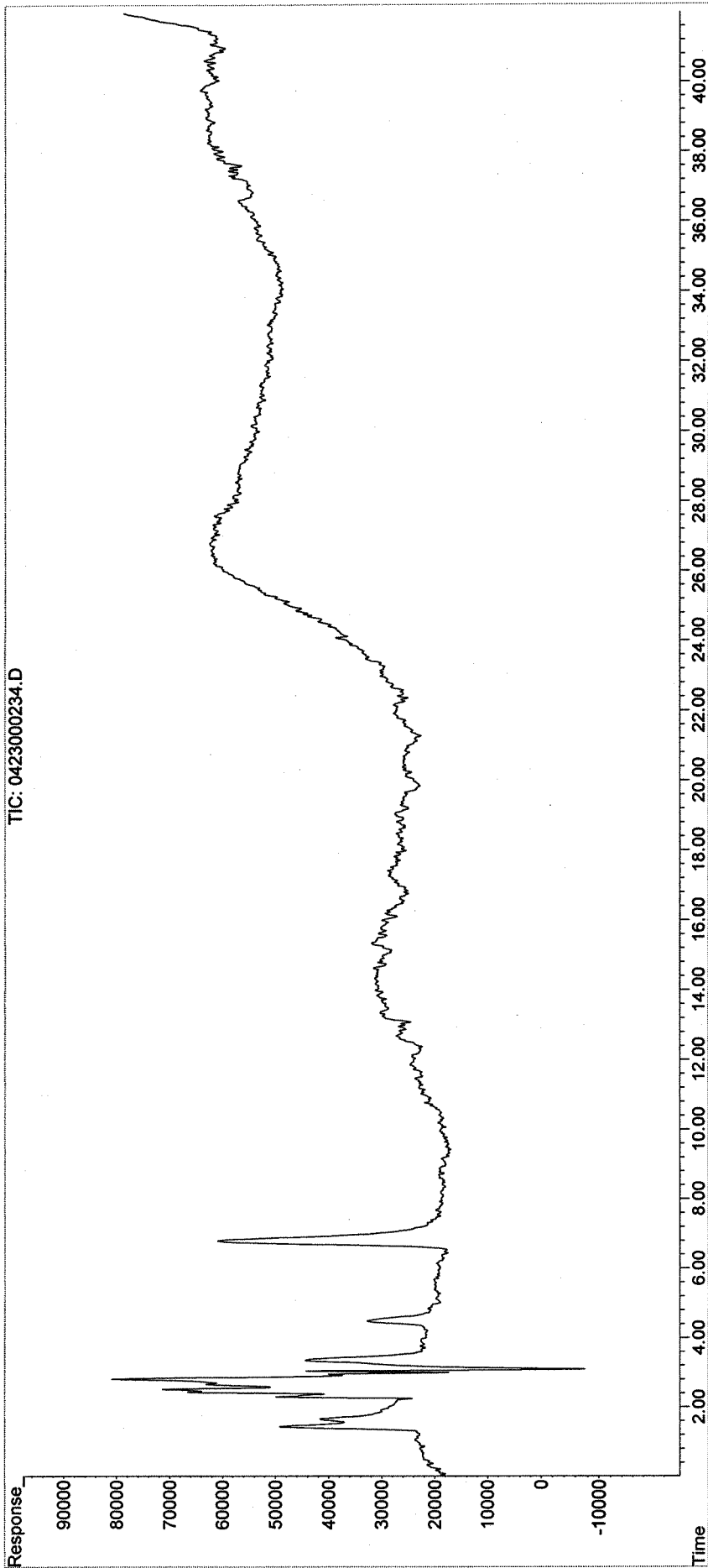
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000234.D  
Signal(s) : DAD1A.ch  
Acq On : 25-Apr-2015, 10:04:43  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 01 14:33:41 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:44:58 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100ul  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



5/12/15jal2<sup>nd</sup>Rev

# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000243.D  
**Lab ID:** KWG1503923-11  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/25/2015 20:42  
**Date Quantitated:** 04/30/2015 16:45  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: cc 5/11/15

Secondary Review: ~~cc~~ 5.12.15

## Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\042315X\254\0423000243.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	04/25/2015 20:42	<b>Quant Date:</b>	04/30/2015 16:45
<b>Run Type:</b>	CCV	<b>Vial:</b>	43
<b>Lab ID:</b>	KWG1503923-11	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>		<b>Tier:</b>		<b>Matrix:</b>	NOT APPLICABLE
<b>Prod Code:</b>	8330B NITRAMARO	<b>Collect Date:</b>		<b>Receive Date:</b>	05/05/2015

<b>Analysis Lot:</b>	KWG1503923	<b>Prep Lot:</b>		<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>			
<b>Prep Ref:</b>		<b>Prep Date:</b>			

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>		<b>Quant based on Method</b>	

### Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.14		30598912	995.82		23-98 NA	

### Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
				Final Conc. Units: ug/L			
HMX	4.32		15933261	1,033			
RDX	7.10		21035476	1,044			
1,3,5-Trinitrobenzene	9.88		45121538	996.26			
1,3-Dinitrobenzene	13.21		63307297	1,035			
3,5-Dinitroaniline	13.83		49685524	1,024			
TETRYL	14.56		16065274	455.85			
Nitrobenzene	15.61		37118455	957.85			
2,4,6-Trinitrotoluene	17.14		43462325	1,033			
4-Amino-2,6-dinitrotoluene	18.02		31340581	1,006			
2-Amino-4,6-dinitrotoluene	18.98		42763856	1,027			
2,6-Dinitrotoluene	21.51		30792350	1,085			
2,4-Dinitrotoluene	22.10		55790828	989.56			
2-Nitrotoluene	26.54		24408592	963.94			
4-Nitrotoluene	27.88		21145297	990.26			
3-Nitrotoluene	29.56		26234910	922.19			

J: Undetected at or above MDL  
 1: Analyte detected above MDL, but below MRL  
 3: Hit above MRL also found in Method Blank  
 5: Analyte concentration above high point of ICAL  
 6: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000243.D  
 Signal(s) : DAD1A.ch  
 Acq On : 25-Apr-2015, 20:42:03  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Apr 30 16:45:36 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:44:58 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.144	30598912	995.816 ug/L
Target Compounds			
1) T HMX	4.317	15933261	1033.379 ug/L
2) T RDX	7.097	21035476	1043.596 ug/L
3) T 1,3,5-TNB	9.884	45121538	996.260 ug/L
4) T 1,3-DNB	13.211	63307297	1035.203 ug/L
5) T 3,5-Dinitroaniline	13.831	49685524	1024.425 ug/L
6) T Tetryl	14.564	16065274	455.845 ug/L
7) T Nitrobenzene	15.611	37118455	957.854 ug/L
8) T 2,4,6-TNT	17.144	43462325	1032.612 ug/L
9) T 4-Amino-2,6-DNT	18.024	31340581	1005.928 ug/L
10) T 2-Amino-4,6-DNT	18.984	42763856	1026.931 ug/L
11) T 2,6-DNT	21.511	30792350	1085.224 ug/L
12) T 2,4-DNT	22.097	55790828	989.561 ug/L
13) T 2-NT	26.537	24408592	963.935 ug/L
14) T 4-NT	27.884	21145297	990.259 ug/L
15) T 3-NT	29.564	26234910	922.186 ug/L
-----			

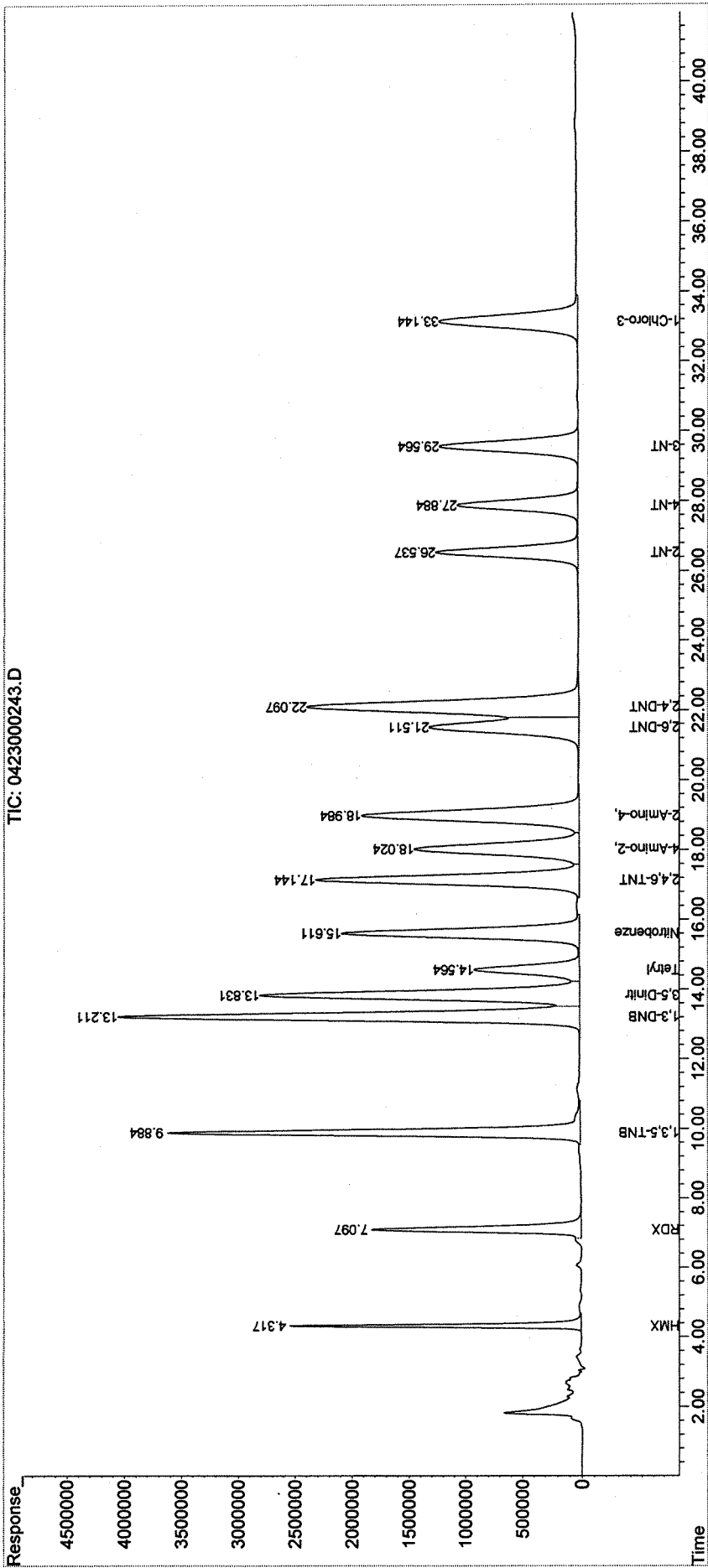
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000243.D  
 Signal(s) : DAD1A.ch  
 Acq On : 25-Apr-2015, 20:42:03  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Apr 30 16:45:36 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CALL3891  
 QLast Update : Thu Apr 30 16:44:58 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\254\0423000244.D  
**Lab ID:** KWG1503923-8  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/25/2015 21:52  
**Date Quantitated:** 04/30/2015 16:54  
**Batch ID:** KWG1503923  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: du 5/11/15

Secondary Review: QA 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\254\0423000244.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/25/2015 21:52	<b>Quant Date:</b> 04/30/2015 16:54
<b>Run Type:</b> IB	<b>Vial:</b> 42
<b>Lab ID:</b> KWG1503923-8	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWG1503923	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0d				
3,5-Dinitroaniline			0d				
TETRYL			0d				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0d				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

f: Undetected at or above MDL  
 : Analyte detected above MDL, but below MRL  
 #: Hit above MRL also found in Method Blank  
 e: Analyte concentration above high point of ICAL  
 f: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ? : Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\254\  
 Data File : 0423000244.D  
 Signal(s) : DAD1A.ch  
 Acq On : 25-Apr-2015, 21:52:49  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: Apr 30 16:54:30 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Thu Apr 30 16:44:58 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L d
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L d
6) T Tetryl	0.000	0	N.D.	ug/L d
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L d
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

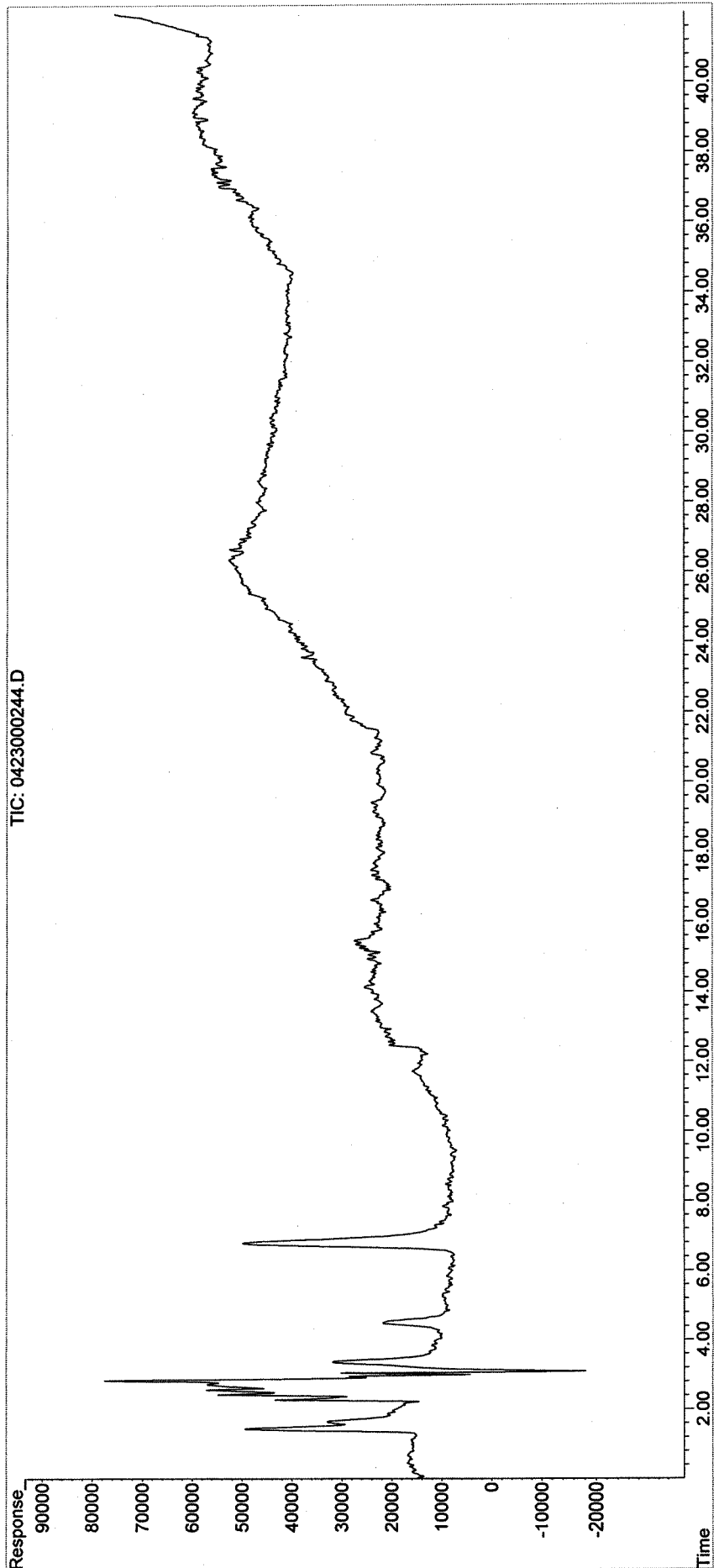
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\254\  
Data File : 0423000244.D  
Signal(s) : DAD1A.ch  
Acq On : 25-Apr-2015, 21:52:49  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: Apr 30 16:54:30 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Thu Apr 30 16:44:58 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000102.D  
**Lab ID:** KWG1504264-1  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/04/2015 10:32  
**Date Quantitated:** 05/12/2015 12:27  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

3815

Primary Review: le 5/13/15

Secondary Review: QA 5.15.15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\050415X\254\0504000102.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	05/04/2015 10:32	<b>Quant Date:</b>	05/12/2015 12:27
<b>Run Type:</b>	IB	<b>Vial:</b>	1
<b>Lab ID:</b>	KWG1504264-1	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>		<b>Tier:</b>		<b>Matrix:</b>	NOT APPLICABLE
<b>Prod Code:</b>	8330B NITRAMARO	<b>Collect Date:</b>		<b>Receive Date:</b>	05/13/2015

<b>Analysis Lot:</b>	KWG1504264	<b>Prep Lot:</b>		<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>			
<b>Prep Ref:</b>		<b>Prep Date:</b>			

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>		<b>Quant based on Method</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
				Final Conc. Units:	ug/L		
HMX			0d				
RDX			0				
1,3,5-Trinitrobenzene			0d				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000102.D  
 Signal(s) : DAD1A.ch  
 Acq On : 04-May-2015, 10:32:05  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:27:12 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:20:46 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L d
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L d
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L

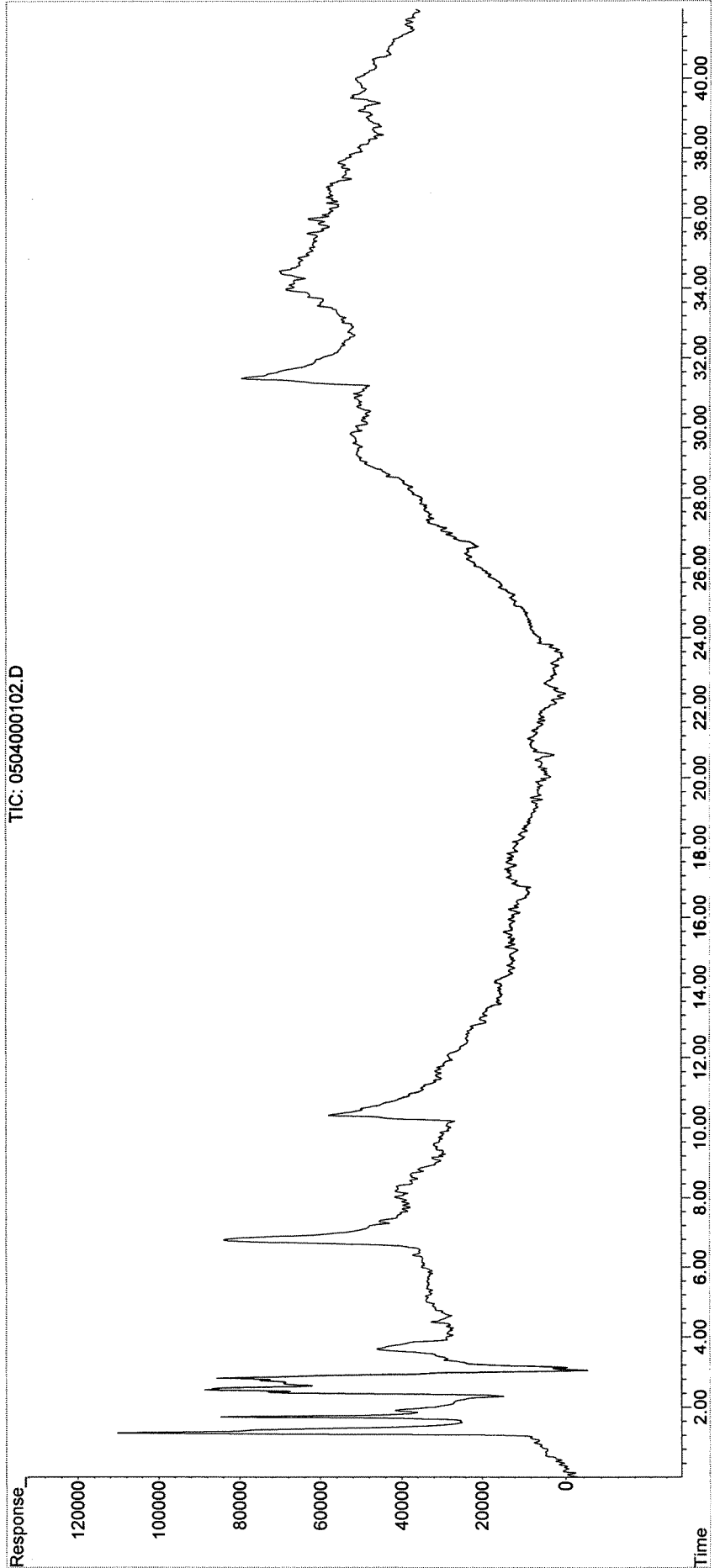
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000102.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 10:32:05  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:27:12 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:46 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000104.D  
**Lab ID:** KWG1504264-6  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/04/2015 11:55  
**Date Quantitated:** 05/12/2015 12:21  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: llc 5/13/15

Secondary Review: QA 5.15.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000104.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 05/04/2015 11:55	<b>Quant Date:</b> 05/12/2015 12:21
<b>Run Type:</b> CCV	<b>Vial:</b> 6
<b>Lab ID:</b> KWG1504264-6	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/13/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.64		31917902	1,039		23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units:		Q	Rpt?
				Solution Conc	ug/L		
HMX	4.36		16245752	1,054			
RDX	7.20		20669621	1,025			
1,3,5-Trinitrobenzene	10.00		46934276	1,036			
1,3-Dinitrobenzene	13.43		64185978	1,050			
3,5-Dinitroaniline	14.18		48801212	1,006			
TETRYL	14.82		32160136	912.53			
Nitrobenzene	15.85		37783477	975.02			
2,4,6-Trinitrotoluene	17.41		42672836	1,014			
4-Amino-2,6-dinitrotoluene	18.51		30299706	972.52			
2-Amino-4,6-dinitrotoluene	19.52		42488528	1,020			
2,6-Dinitrotoluene	21.95		30266802	1,067			
2,4-Dinitrotoluene	22.56		57508849	1,020			
2-Nitrotoluene	26.88		25703742	1,015			
4-Nitrotoluene	28.27		21505579	1,007			
3-Nitrotoluene	29.98		27871289	979.71			

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000104.D  
 Signal(s) : DAD1A.ch  
 Acq On : 04-May-2015, 11:55:37  
 Operator : CFS  
 Sample : 14-OLC-01-33K 1PPM  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:21:52 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:20:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.644	31917902	1038.741 ug/L
Target Compounds			
1) T HMX	4.364	16245752	1053.646 ug/L
2) T RDX	7.197	20669621	1025.372 ug/L
3) T 1,3,5-TNB	9.997	46934276	1036.284 ug/L
4) T 1,3-DNB	13.430	64185978	1049.571 ug/L
5) T 3,5-Dinitroaniline	14.184	48801212	1006.192 ug/L
6) T Tetryl	14.824	32160136	912.529 ug/L
7) T Nitrobenzene	15.850	37783477	975.015 ug/L
8) T 2,4,6-TNT	17.410	42672836	1013.854 ug/L
9) T 4-Amino-2,6-DNT	18.510	30299706	972.520 ug/L
10) T 2-Amino-4,6-DNT	19.524	42488528	1020.320 ug/L
11) T 2,6-DNT	21.950	30266802	1066.702 ug/L
12) T 2,4-DNT	22.557	57508849	1020.034 ug/L
13) T 2-NT	26.884	25703742	1015.082 ug/L
14) T 4-NT	28.270	21505579	1007.131 ug/L
15) T 3-NT	29.977	27871289	979.706 ug/L
-----			

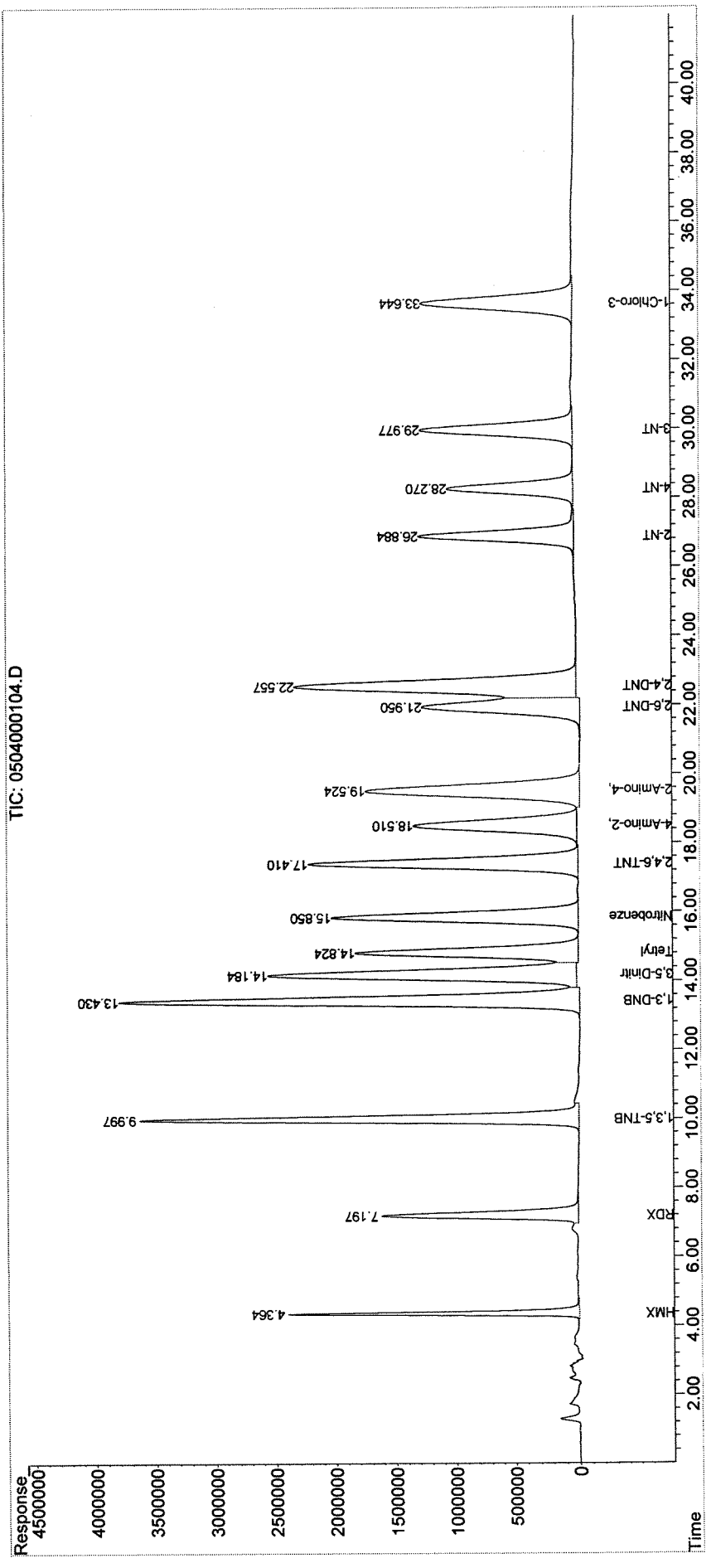
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000104.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 11:55:37  
Operator : CFS  
Sample : 14-OLC-01-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:21:52 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CALL3891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000116.D  
**Lab ID:** KWG1504264-7  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/04/2015 20:17  
**Date Quantitated:** 05/12/2015 12:41  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: llc 5/13/15

Secondary Review: 087 5.15.15

# Quantitation Report

Data File:	J:\LC10\DATA\050415X\254\0504000116.D	Instrument:	LC10
Acqu Date:	05/04/2015 20:17	Quant Date:	05/12/2015 12:41
Run Type:	CCV	Vial:	6
Lab ID:	KWG1504264-7	Dilution:	1.0
		Soln Conc. Units:	ug/L

Bottle ID:	Tier:	Matrix:	NOT APPLICABLE
Prod Code:	8330B NITRAMARO	Collect Date:	05/13/2015

Analysis Lot:	KWG1504264	Prep Lot:	Report Group:
Analysis Method:	8330B	Prep Method:	
Prep Ref:		Prep Date:	

Quant Method:	J:\LC10\METHOD\031615_8330B	Calibration ID:	CAL13891
Title:		Method ID:	MJ1278
MB Ref:		Quant based on Method	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.59		34270534	1,115		23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units:		Q	Rpt?
				Solution Conc	ug/L		
HMX	4.36		17998419	1,167			
RDX	7.20		22298586	1,107			
1,3,5-Trinitrobenzene	10.00		50611305	1,117			
1,3-Dinitrobenzene	13.44		69365366	1,134			
3,5-Dinitroaniline	14.20		53453244	1,102			
TETRYL	14.84		35151482	997.41			
Nitrobenzene	15.86		41678410	1,076			
2,4,6-Trinitrotoluene	17.42		46133892m	1,096			
4-Amino-2,6-dinitrotoluene	18.53		33545036m	1,077			
2-Amino-4,6-dinitrotoluene	19.54		45688080m	1,097			
2,6-Dinitrotoluene	21.95		32227256m	1,136			
2,4-Dinitrotoluene	22.56		61467061m	1,090			
2-Nitrotoluene	26.87		26584832m	1,050			
4-Nitrotoluene	28.25		22803429m	1,068			
3-Nitrotoluene	29.94		29603076	1,041			

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000116.D  
 Signal(s) : DAD1A.ch  
 Acq On : 04-May-2015, 20:17:09  
 Operator : CFS  
 Sample : 14-OLC-02-33K 1PPM  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:41:33 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:20:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	33.586	34270534	1115.306	ug/L
Target Compounds				
1) T HMX	4.360	17998419	1167.318	ug/L
2) T RDX	7.200	22298586	1106.509	ug/L
3) T 1,3,5-TNB	10.000	50611305	1117.471	ug/L
4) T 1,3-DNB	13.440	69365366	1134.265	ug/L
5) T 3,5-Dinitroaniline	14.200	53453244	1102.108	ug/L
6) T Tetryl	14.840	35151482	997.407	ug/L
7) T Nitrobenzene	15.860	41678410	1075.525	ug/L
8) T 2,4,6-TNT	17.420	46133892	1096.085	ug/L m
9) T 4-Amino-2,6-DNT	18.526	33545036	1076.684	ug/L m
10) T 2-Amino-4,6-DNT	19.540	45688080	1097.154	ug/L m
11) T 2,6-DNT	21.953	32227256	1135.795	ug/L m
12) T 2,4-DNT	22.560	61467061	1090.241	ug/L m
13) T 2-NT	26.866	26584832	1049.878	ug/L m
14) T 4-NT	28.246	22803429	1067.911	ug/L m
15) T 3-NT	29.940	29603076	1040.580	ug/L
-----				

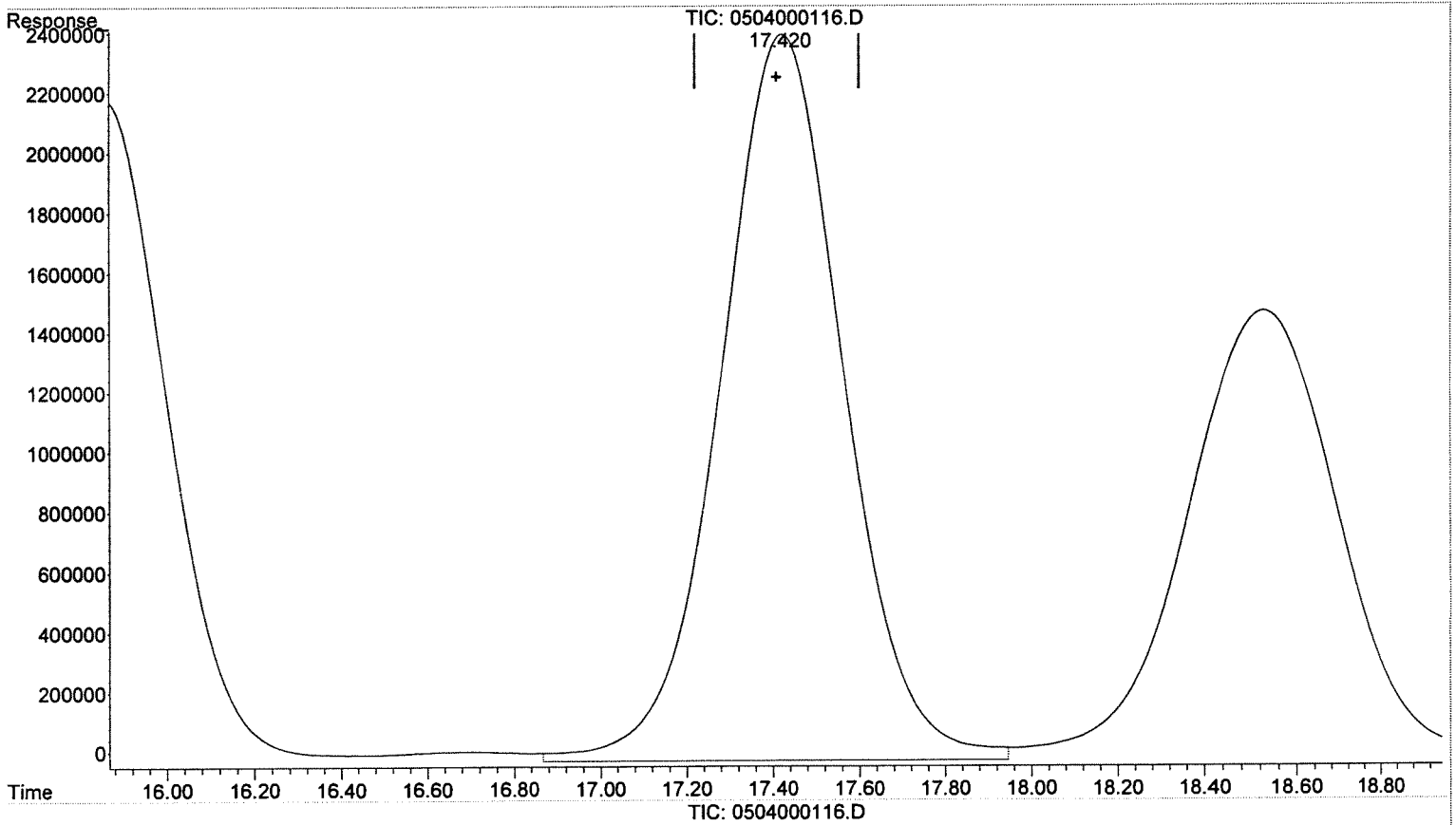
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(8) 2,4,6-TNT (T)  
17.420min 1136.577 ug/L  
response 47838178

Manual Integration:  
Before

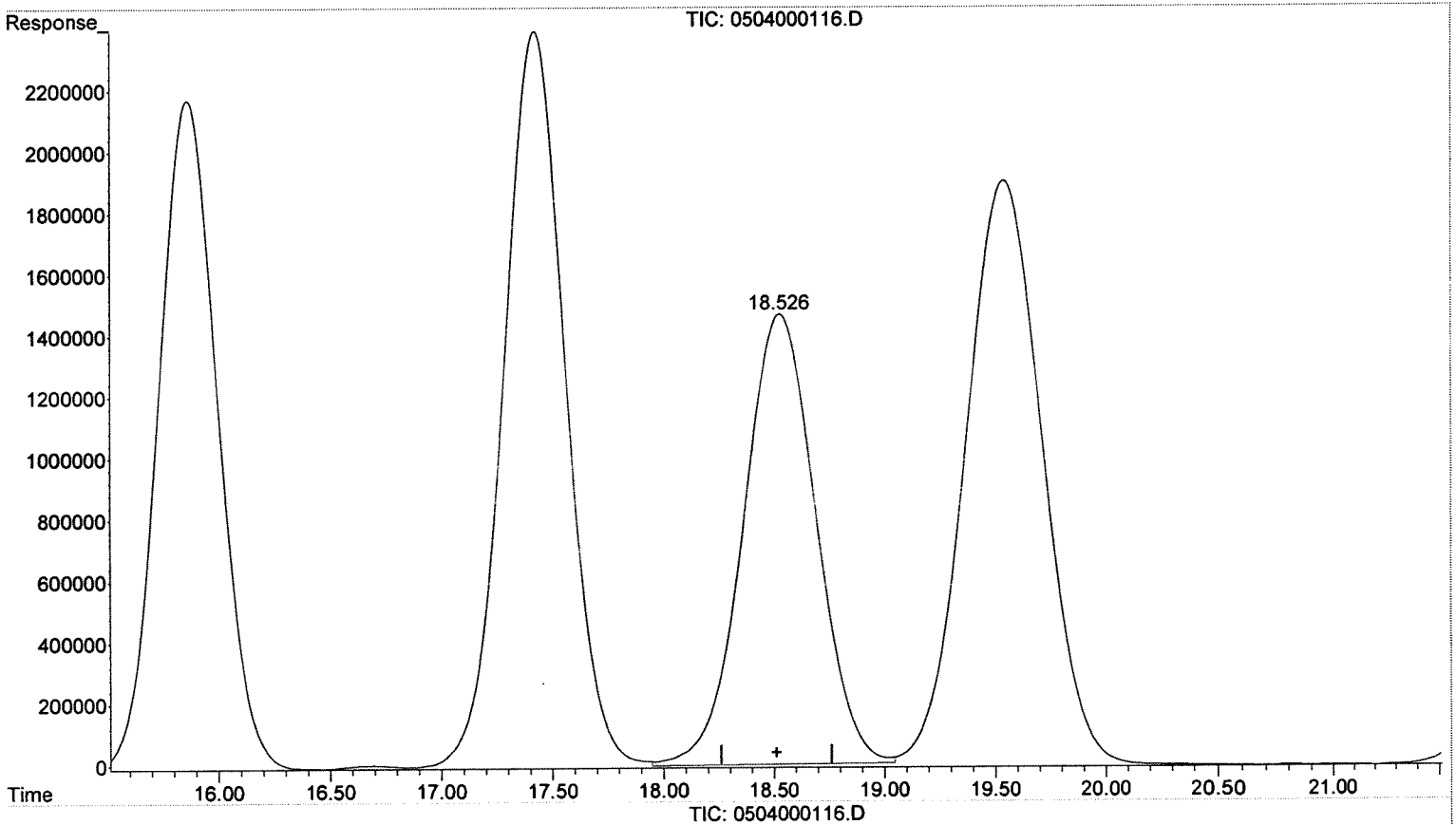
05/12/15

05/15/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(9) 4-Amino-2,6-DNT (T)  
18.526min 1076.684 ug/L m  
response 33545036

Manual Integration:

After

BLC

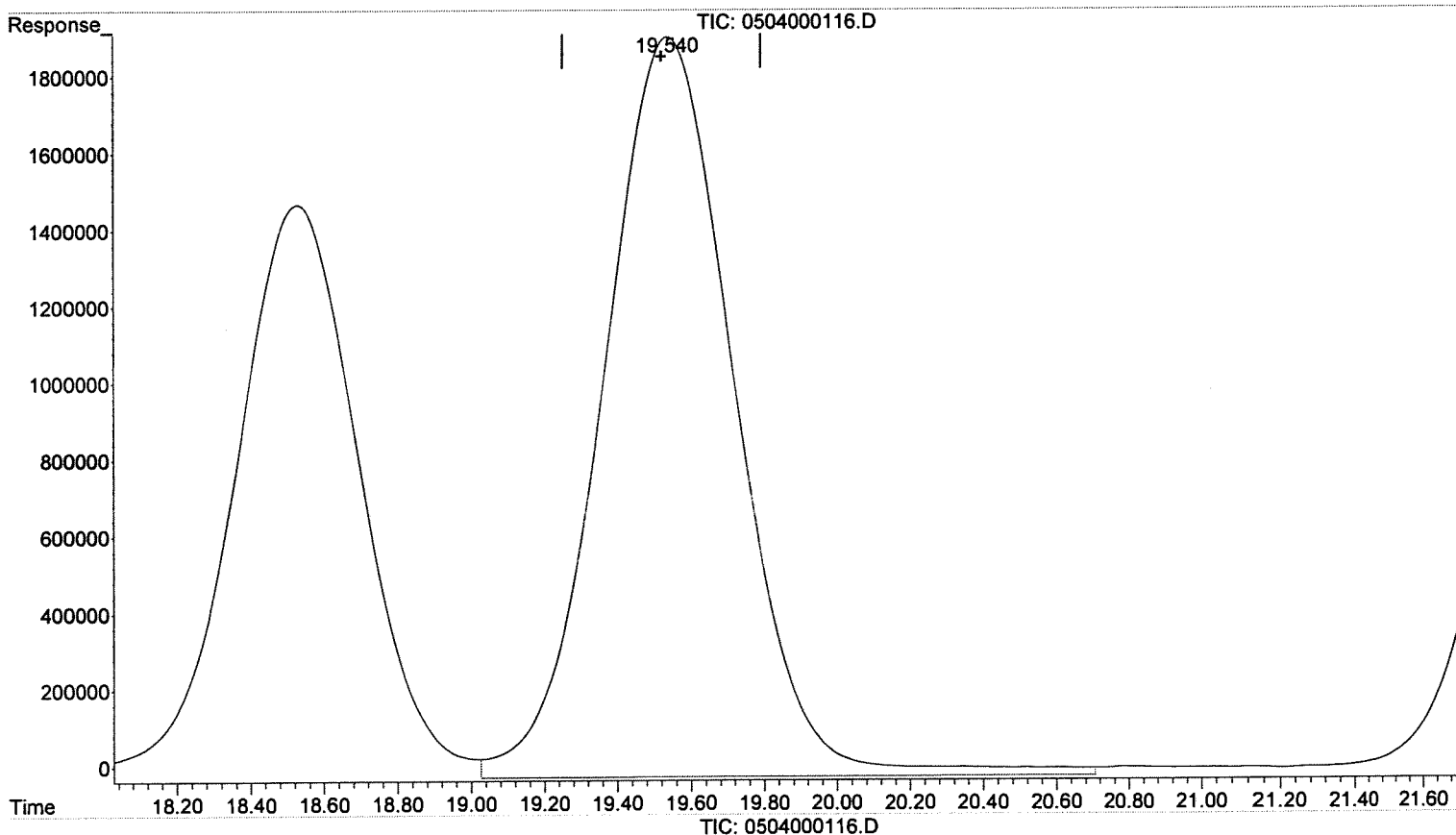
05/12/15

05/15/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.540min 1149.355 ug/L  
response 47861880

Manual Integration:

Before

05/12/15

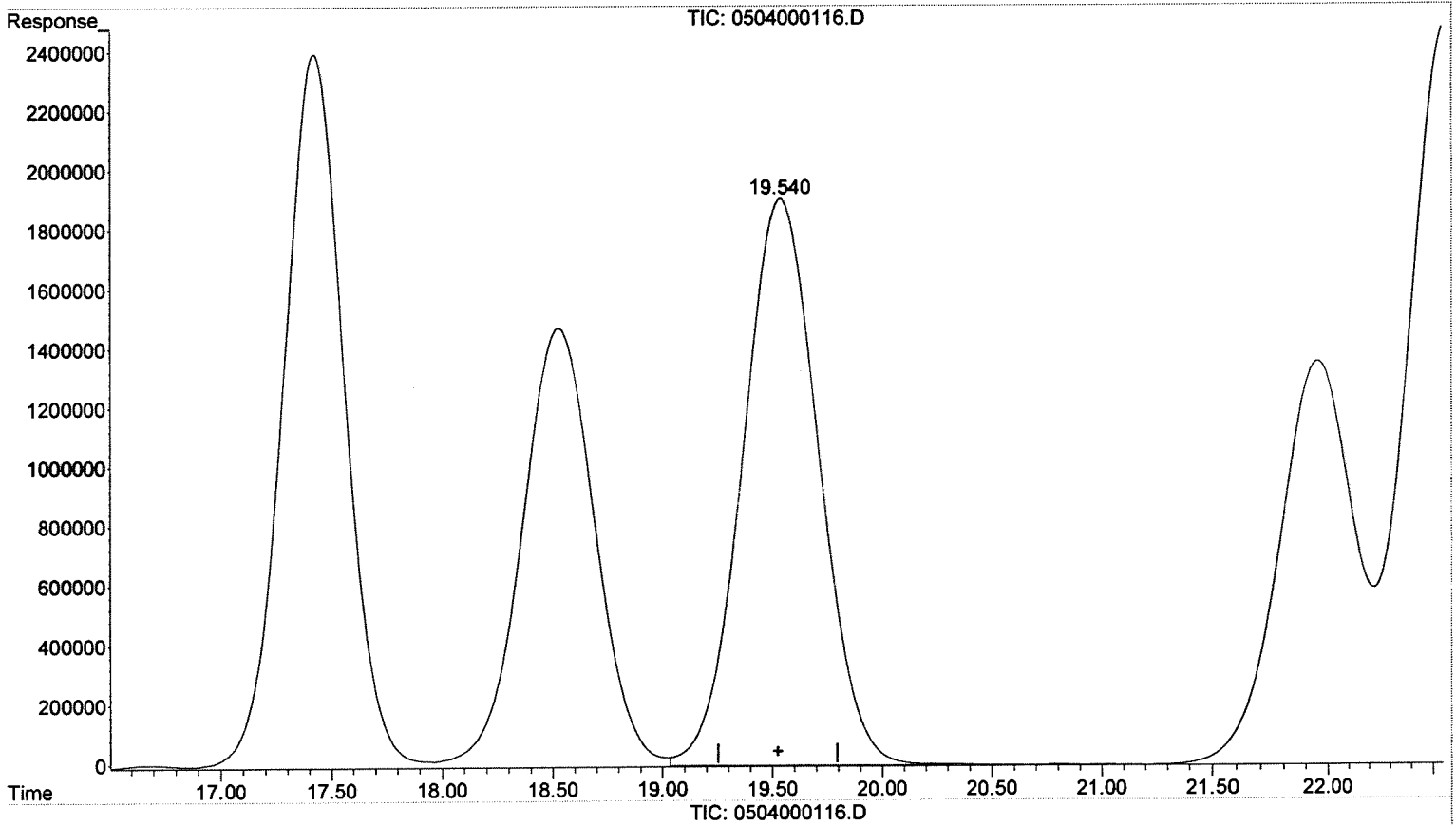
05/15.15

Page: 1

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(10) 2-Amino-4,6-DNT (T)  
19.540min 1097.154 ug/L m  
response 45688080

Manual Integration:

After  
BLC  
05/12/15

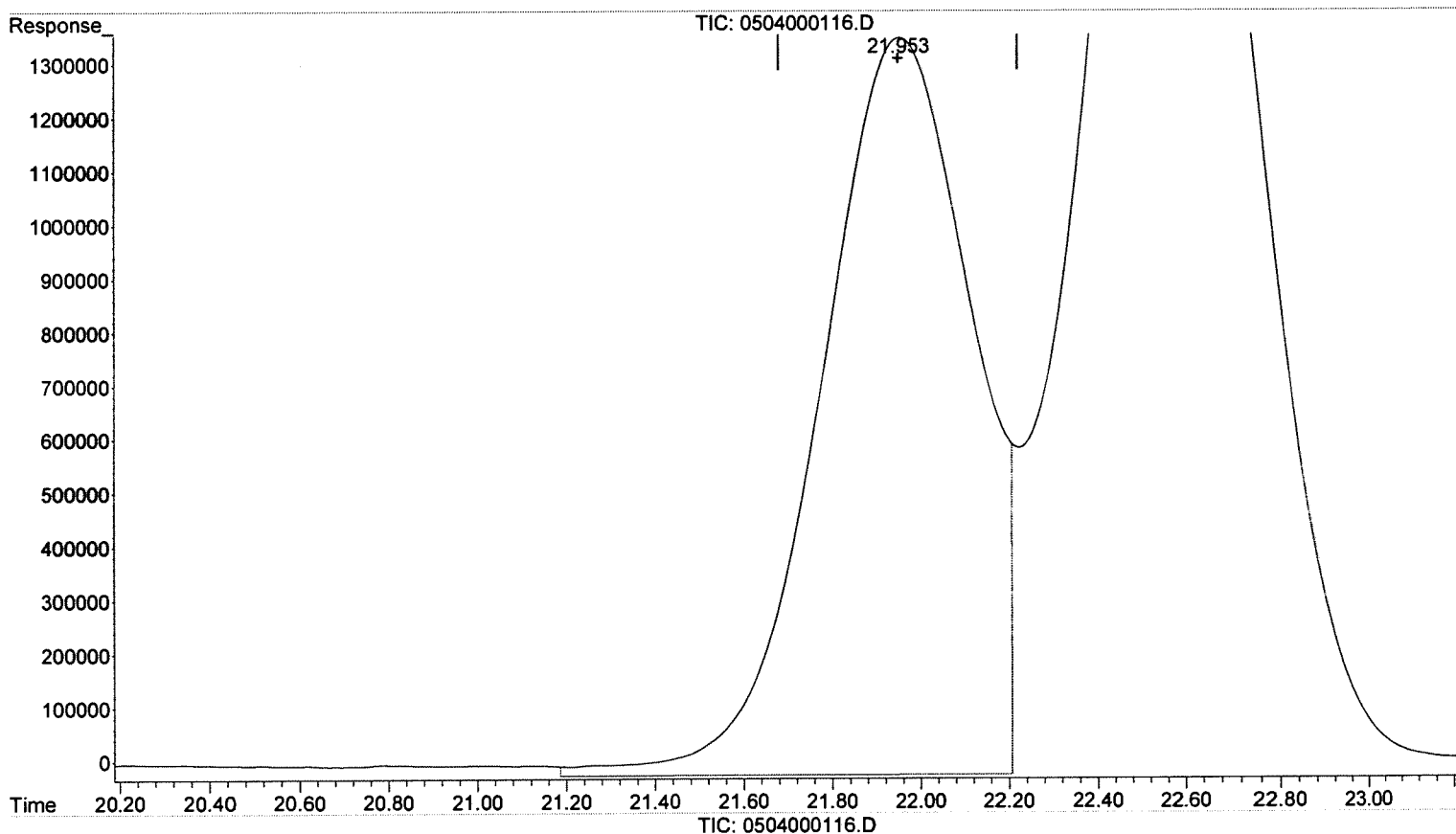
(+) = Expected Retention Time  
031615\_8330B@254.M Tue May 12 12:40:36 2015

*Handwritten:* 5.15.15  
Page: 1

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.953min 1144.842 ug/L  
response 32483962

Manual Integration:

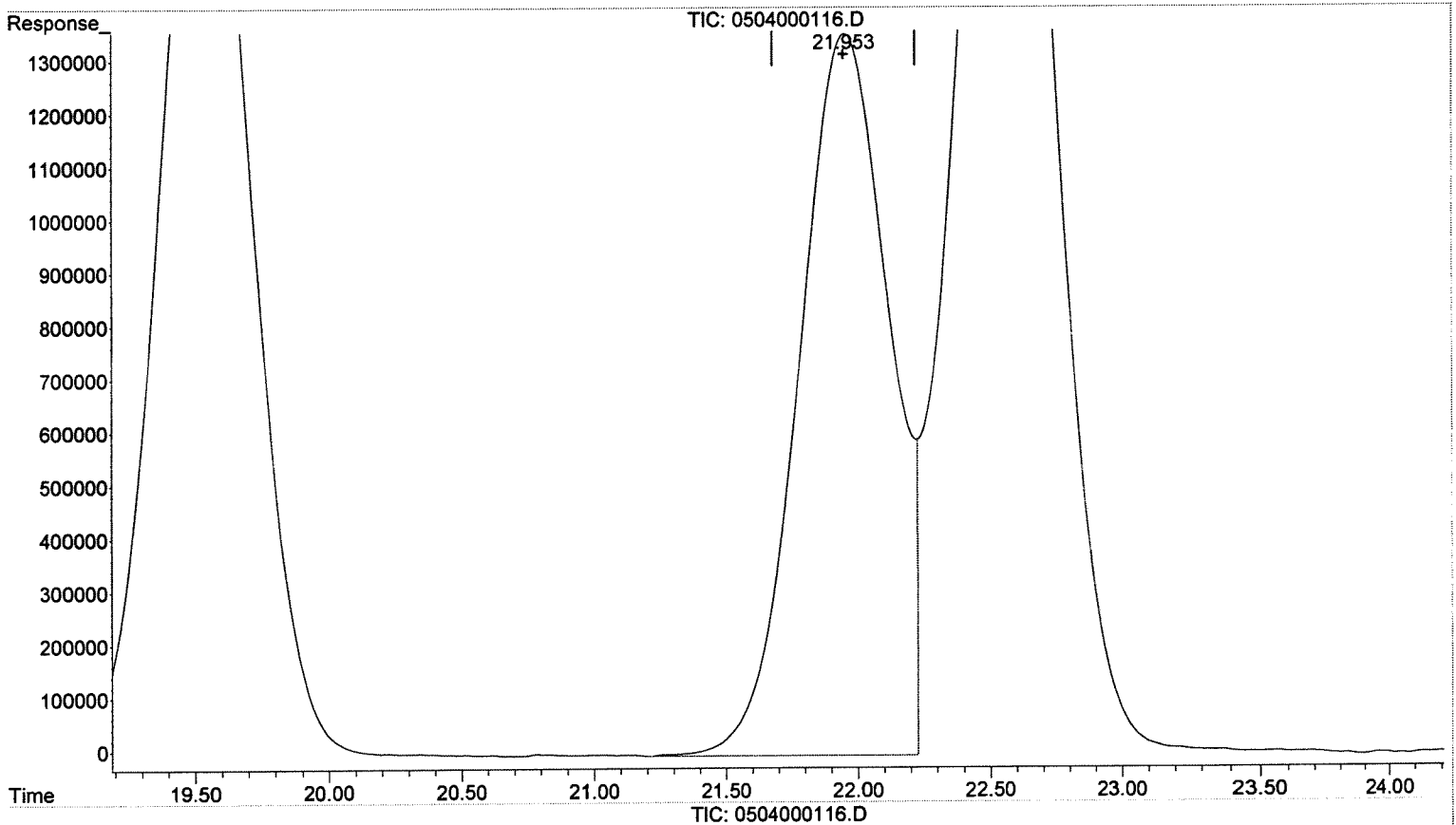
Before

05/12/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(11) 2,6-DNT (T)  
21.953min 1135.795 ug/L m  
response 32227256

Manual Integration:

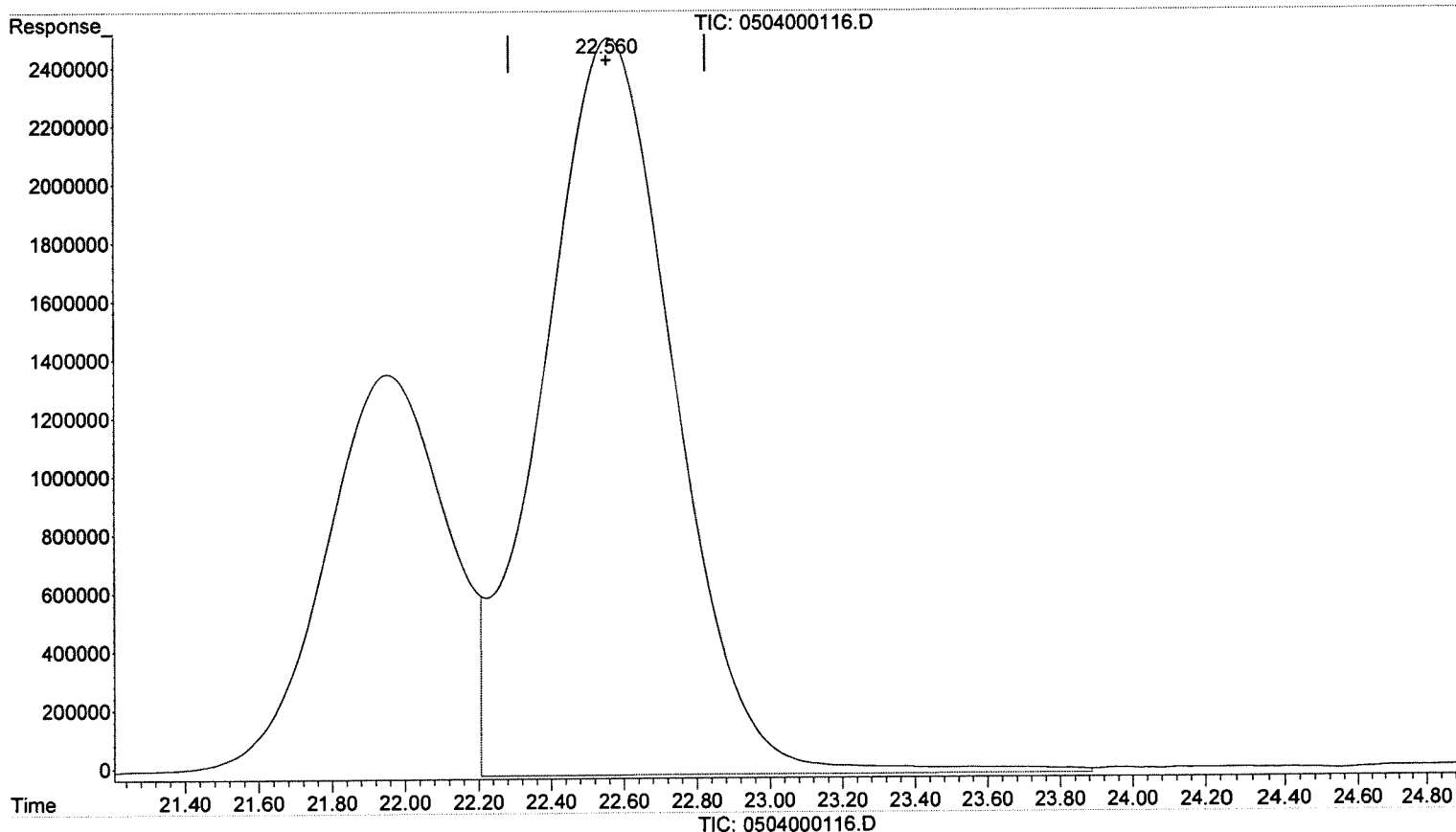
After  
BLC  
05/12/15

088  
5.15.15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.560min 1130.053 ug/L  
response 63711644

Manual Integration:

Before

05/12/15

(+) = Expected Retention Time  
031615\_8330B@254.M Tue May 12 12:41:02 2015

088  
5.15.15

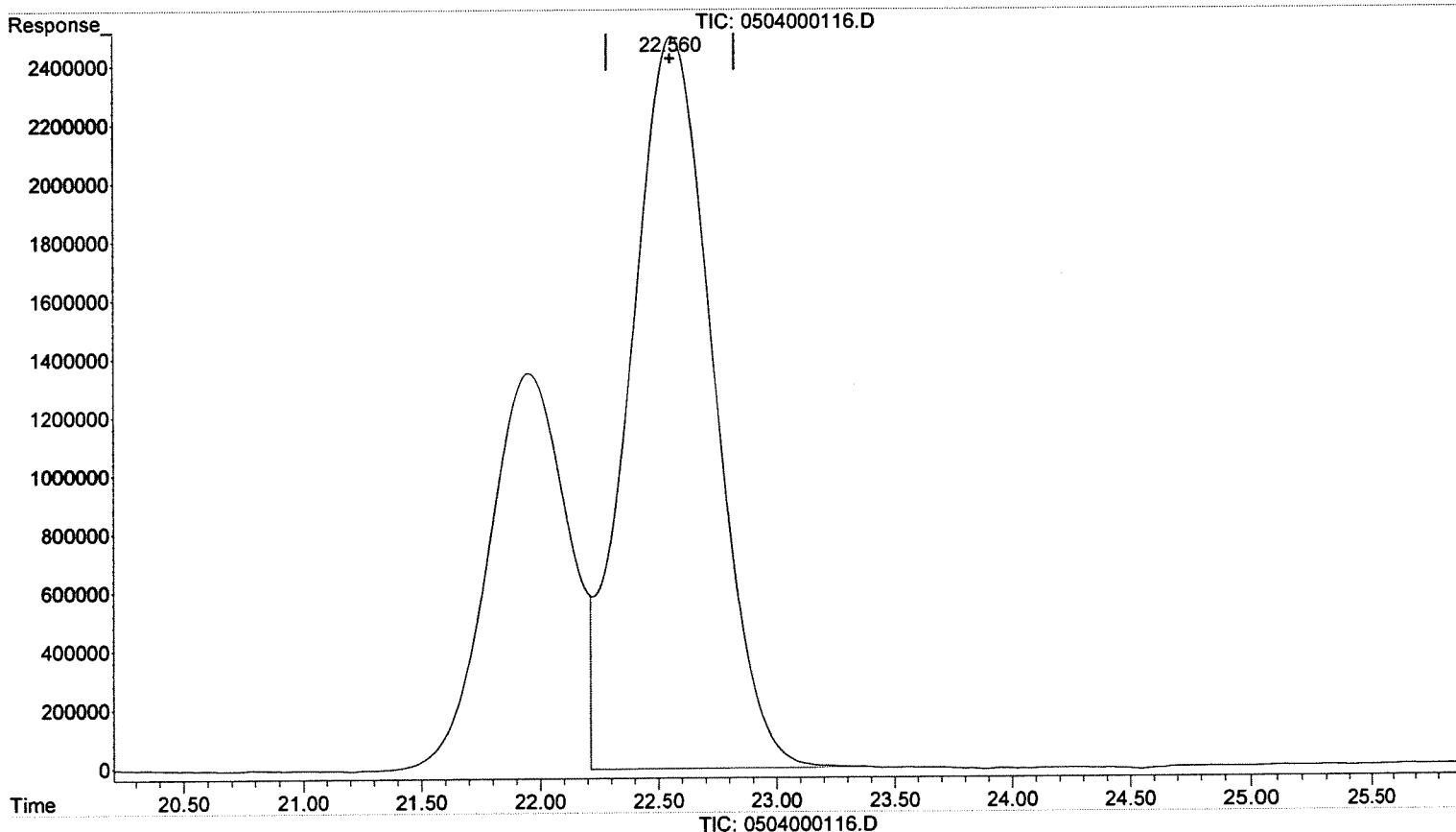
Page: 1



Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(12) 2,4-DNT (T)  
22.560min 1090.241 ug/L m  
response 61467061

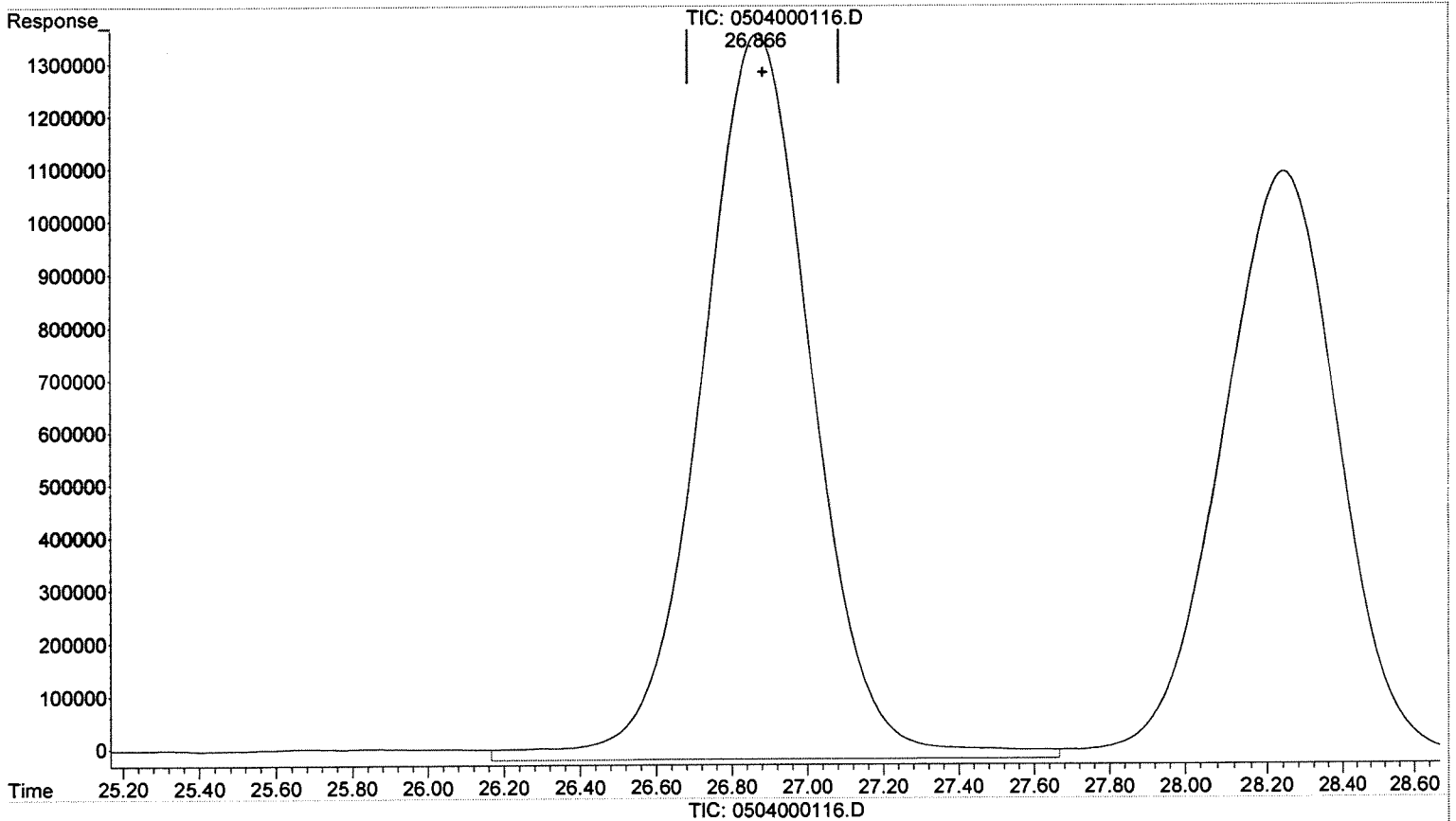
Manual Integration:  
After  
BLC  
05/12/15

08  
5/15/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.866min 1114.323 ug/L  
response 28216691

Manual Integration:  
Before

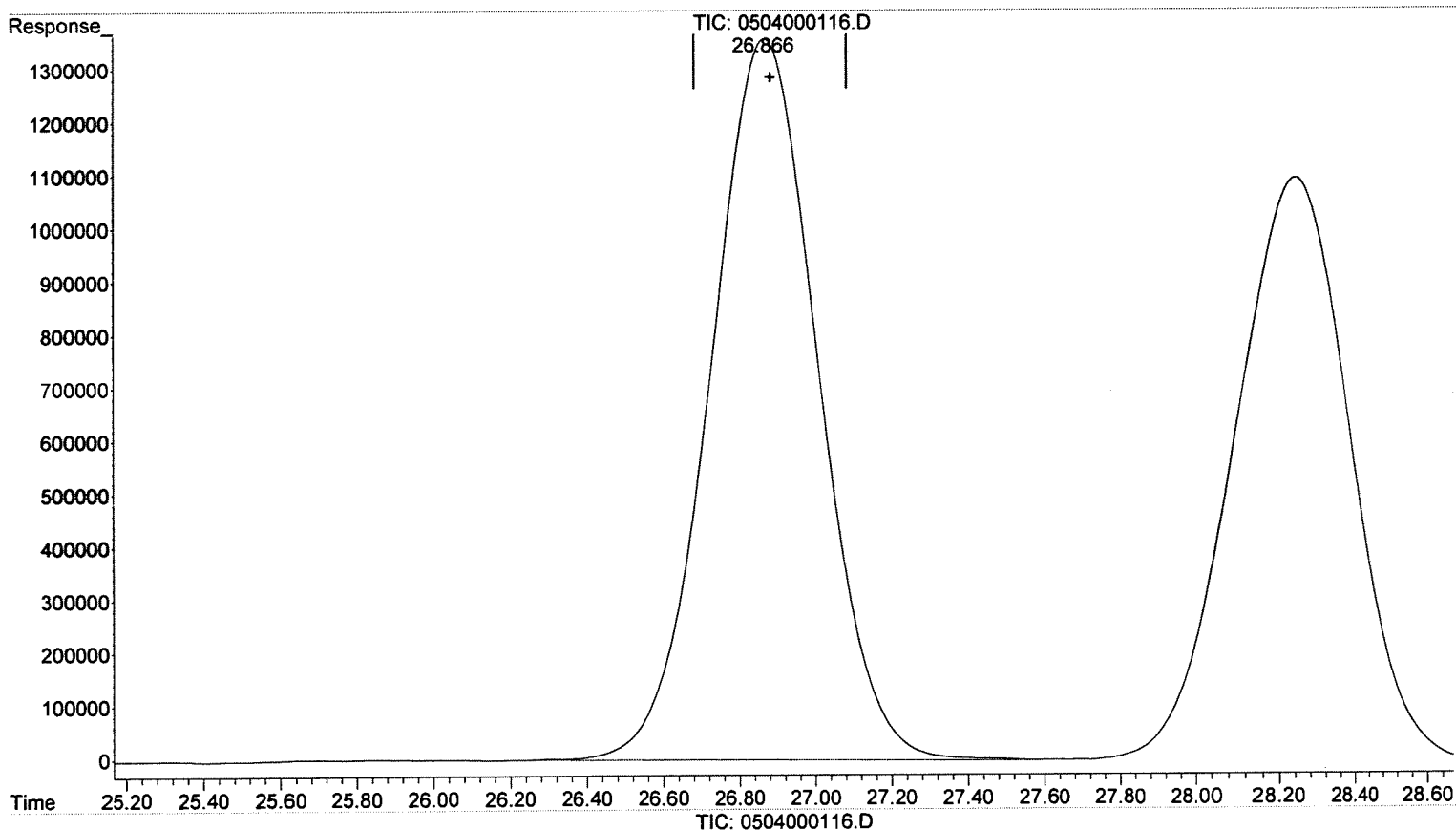
05/12/15

*la*

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.866min 1049.878 ug/L m  
response 26584832

Manual Integration:  
After  
BLC  
05/12/15

*llc*

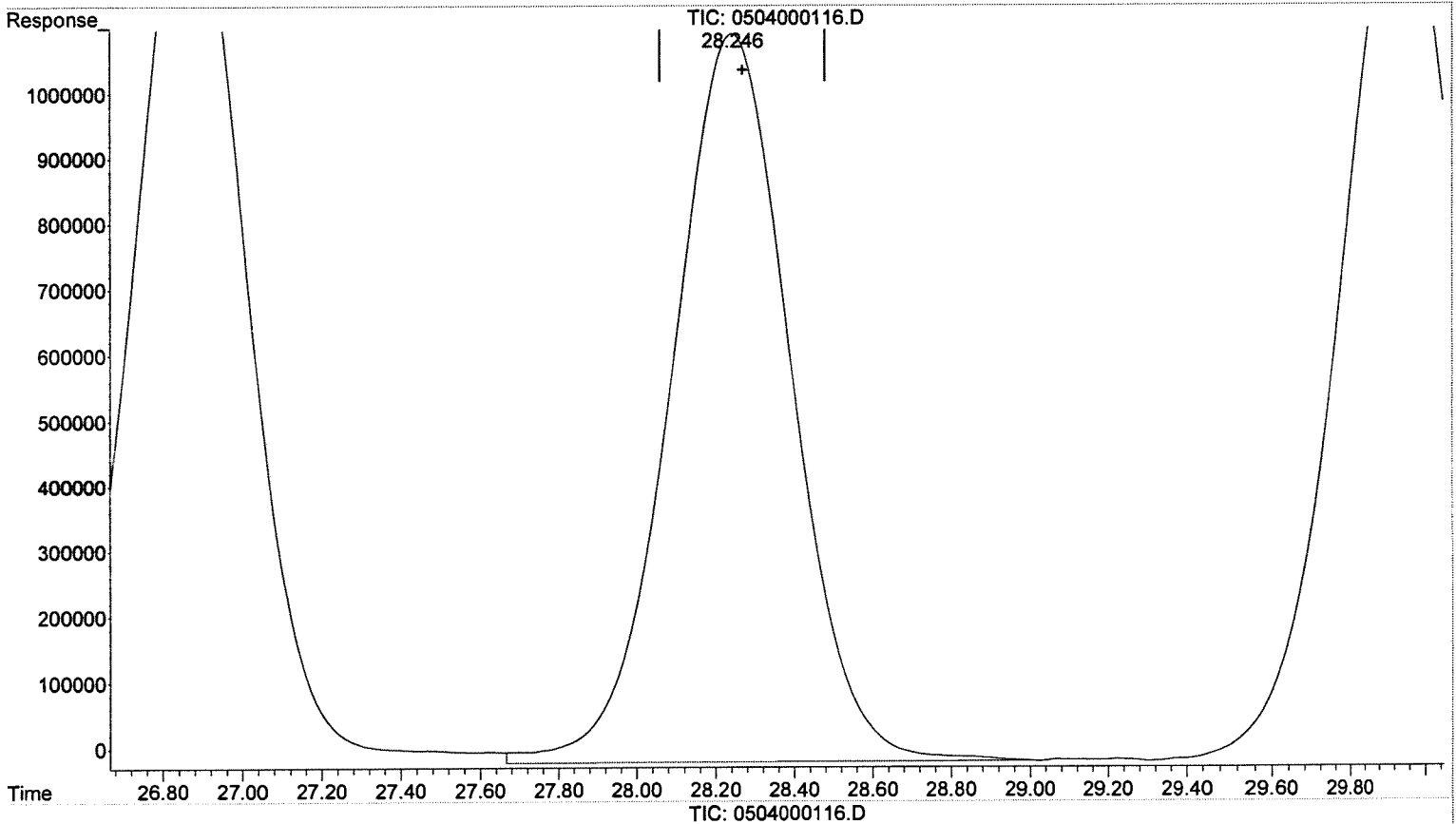
(+) = Expected Retention Time  
031615\_8330B@254.M Tue May 12 12:41:25 2015

*515.15*

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(14) 4-NT (T)  
28.246min 1094.428 ug/L  
response 23369638

Manual Integration:

Before

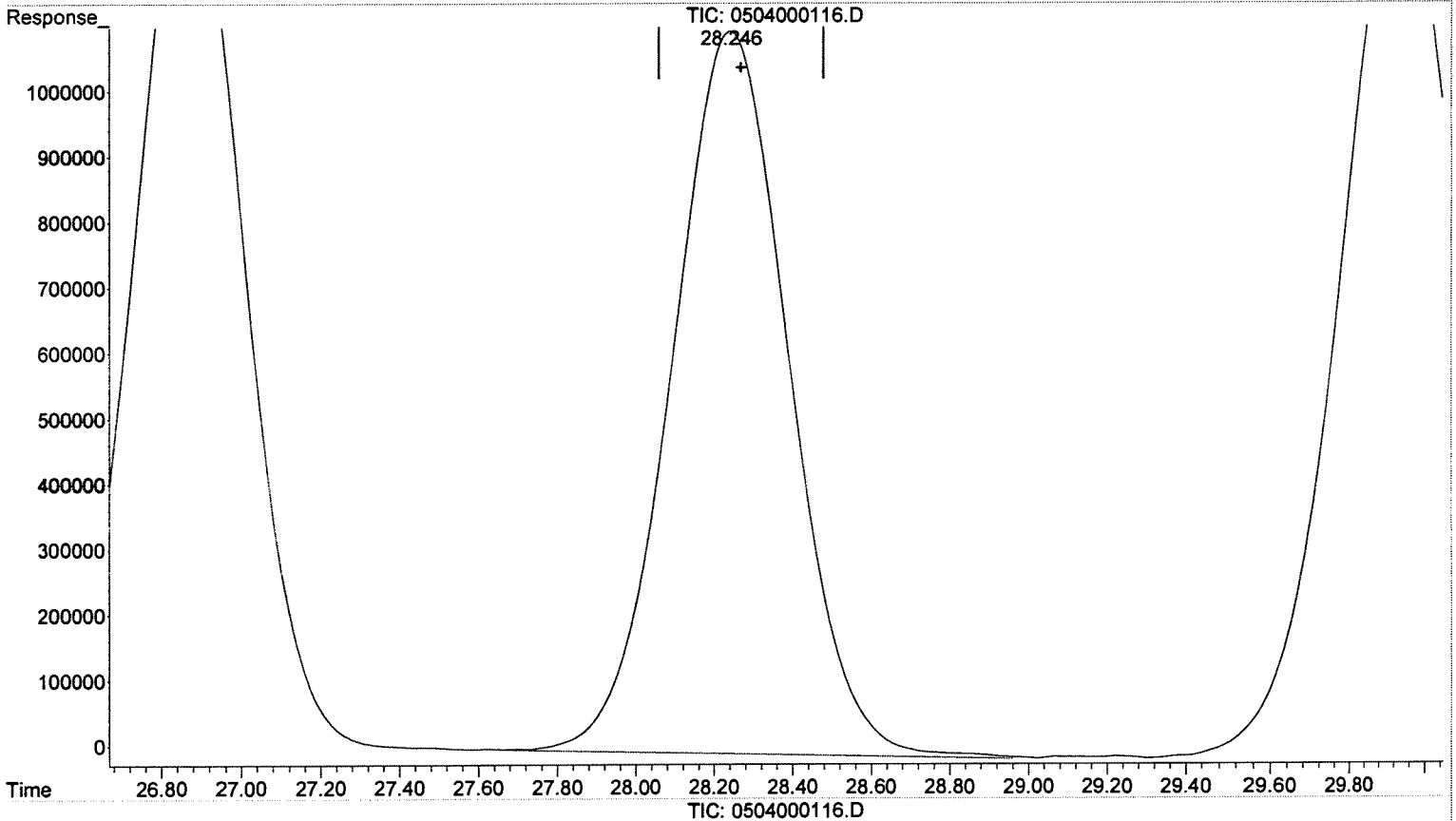
05/12/15

515.15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000116.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 20:17:09  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:22:05 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:20:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



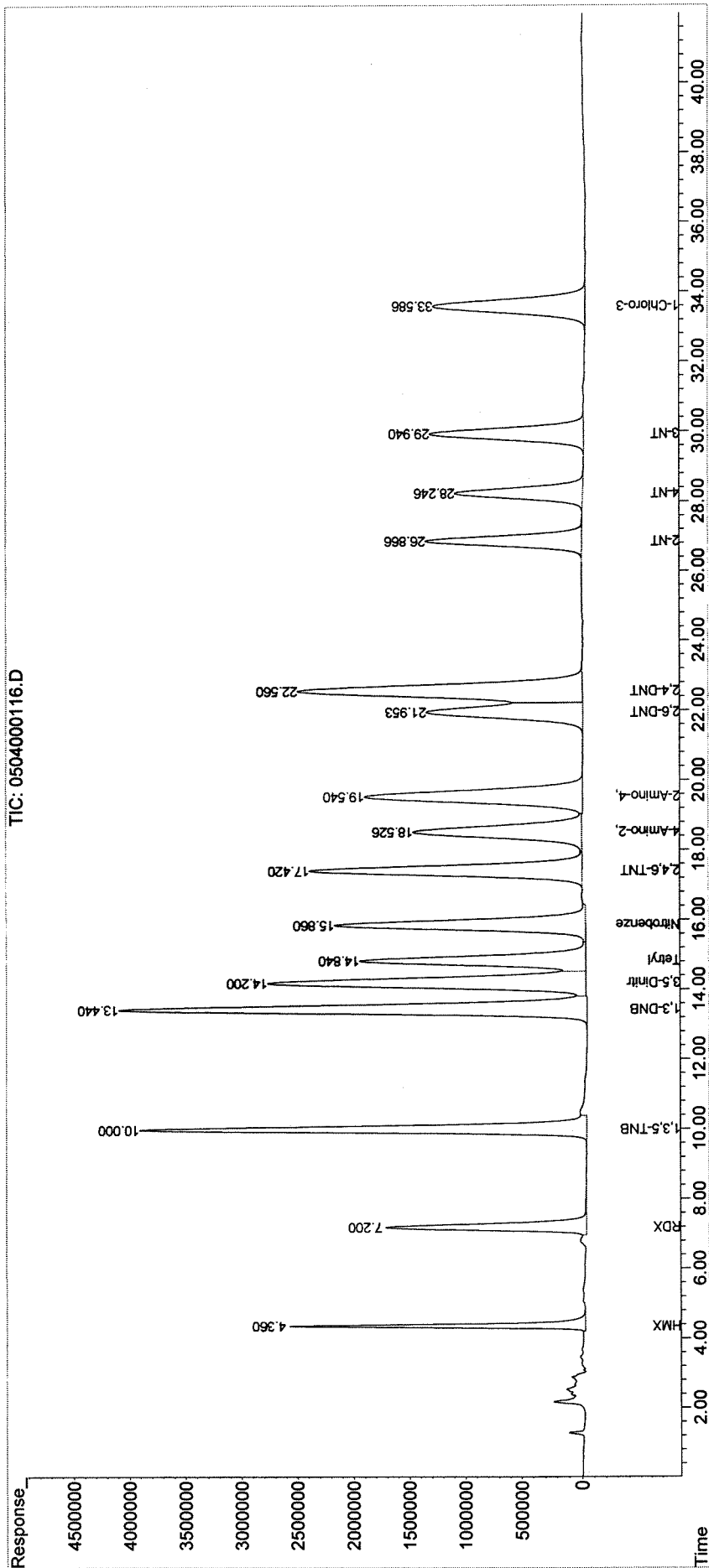
(14) 4-NT (T)  
28.246min 1067.911 ug/L m  
response 22803429

Manual Integration:  
After  
BLC  
05/12/15

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000116.D  
 Signal(s) : DAD1A.ch  
 Acq On : 04-May-2015, 20:17:09  
 Operator : CFS  
 Sample : 14-OLC-02-33K 1PPM  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:41:33 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:20:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000118.D  
**Lab ID:** KWG1504264-2  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/04/2015 21:40  
**Date Quantitated:** 05/12/2015 12:41  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review:     *lu* 5/13/15    

Secondary Review:     *QA* 5.15.15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\050415X\254\0504000118.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	05/04/2015 21:40	<b>Quant Date:</b>	05/12/2015 12:41
<b>Run Type:</b>	IB	<b>Vial:</b>	1
<b>Lab ID:</b>	KWG1504264-2	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>		<b>Tier:</b>		<b>Matrix:</b>	NOT APPLICABLE
<b>Prod Code:</b>	8330B NITRAMARO	<b>Collect Date:</b>		<b>Receive Date:</b>	05/13/2015

<b>Analysis Lot:</b>	KWG1504264	<b>Prep Lot:</b>		<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>			
<b>Prep Ref:</b>		<b>Prep Date:</b>			

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>		<b>Quant based on Method</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0			23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX			0d				
RDX			0d				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0d				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0d				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000118.D  
 Signal(s) : DAD1A.ch  
 Acq On : 04-May-2015, 21:40:41  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:41:59 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:22:21 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L d
2) T RDX	0.000	0	N.D.	ug/L d
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L d
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L d
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

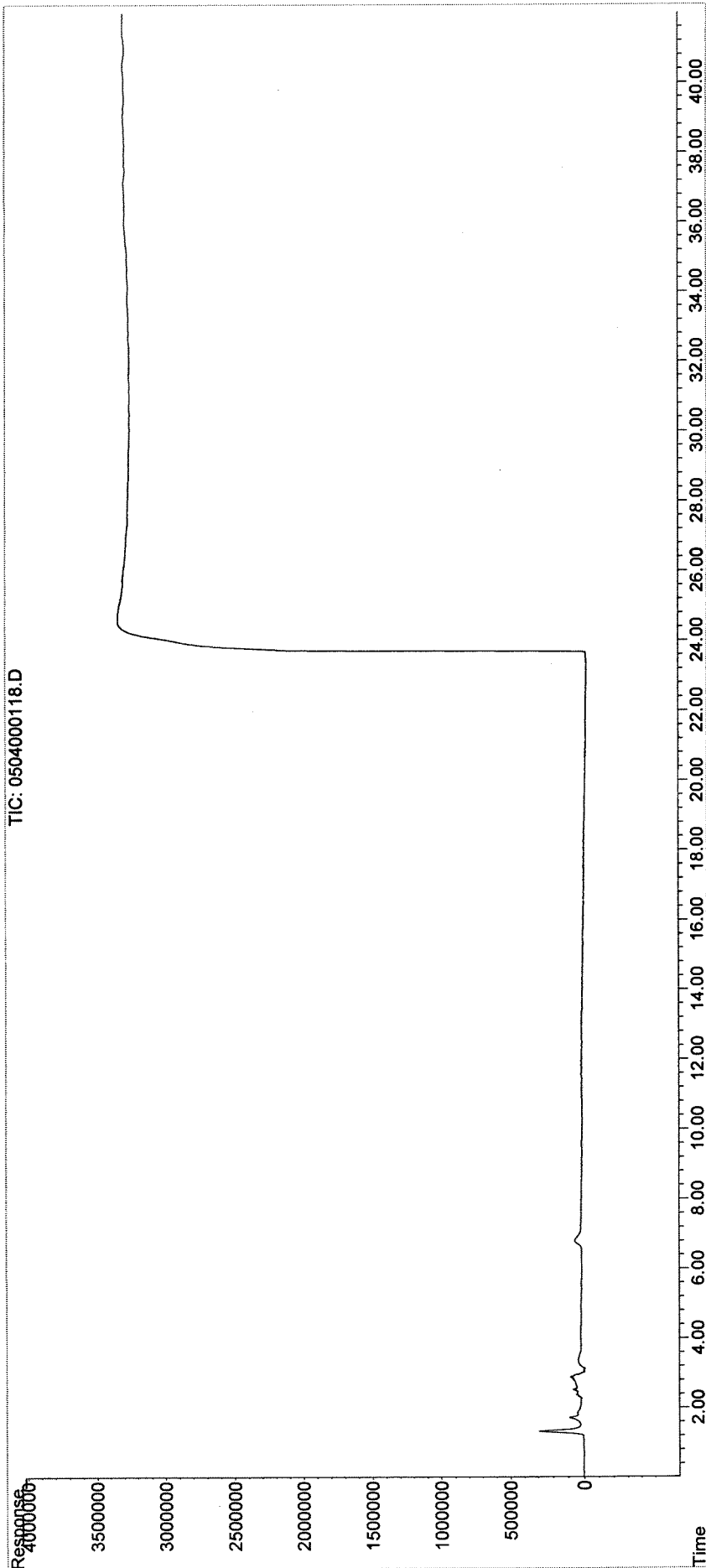
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000118.D  
Signal(s) : DAD1A.ch  
Acq On : 04-May-2015, 21:40:41  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:41:59 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:22:21 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000137.D  
**Lab ID:** KWG1504264-8  
**Run Type:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/05/2015 11:00  
**Date Quantitated:** 05/12/2015 12:25  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: lee 5/13/15

Secondary Review: QA 5/18/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000137.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 05/05/2015 11:00	<b>Quant Date:</b> 05/12/2015 12:25
<b>Run Type:</b> CCV	<b>Vial:</b> 6
<b>Lab ID:</b> KWG1504264-8	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/13/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.60		35196745	1,145		23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					ug/L		
HMX	4.37		17808912	1,155			
RDX	7.22		21879211	1,086			
1,3,5-Trinitrobenzene	10.00		50780879	1,121			
1,3-Dinitrobenzene	13.42		69472879	1,136			
3,5-Dinitroaniline	14.17		53627597	1,106			
TETRYL	14.80		33851044	960.51			
Nitrobenzene	15.82		40296628	1,040			
2,4,6-Trinitrotoluene	17.37		46033793	1,094			
4-Amino-2,6-dinitrotoluene	18.46		32751421	1,051			
2-Amino-4,6-dinitrotoluene	19.46		46011744	1,105			
2,6-Dinitrotoluene	21.89		31852115	1,123			
2,4-Dinitrotoluene	22.50		62361395	1,106			
2-Nitrotoluene	26.84		26876589	1,061			
4-Nitrotoluene	28.22		22939939	1,074			
3-Nitrotoluene	29.93		30118992	1,059			

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000137.D  
 Signal(s) : DAD1A.ch  
 Acq On : 05-May-2015, 11:00:25  
 Operator : CFS  
 Sample : 14-OLC-02-33K 1PPM  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:25:08 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:24:43 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.603	35196745	1145.449 ug/L
Target Compounds			
1) T HMX	4.370	17808912	1155.027 ug/L
2) T RDX	7.216	21879211	1085.622 ug/L
3) T 1,3,5-TNB	10.003	50780879	1121.215 ug/L
4) T 1,3-DNB	13.423	69472879	1136.023 ug/L
5) T 3,5-Dinitroaniline	14.170	53627597	1105.703 ug/L
6) T Tetryl	14.796	33851044	960.508 ug/L
7) T Nitrobenzene	15.823	40296628	1039.867 ug/L
8) T 2,4,6-TNT	17.370	46033793	1093.707 ug/L
9) T 4-Amino-2,6-DNT	18.456	32751421	1051.212 ug/L
10) T 2-Amino-4,6-DNT	19.463	46011744	1104.926 ug/L
11) T 2,6-DNT	21.890	31852115	1122.574 ug/L
12) T 2,4-DNT	22.496	62361395	1106.103 ug/L
13) T 2-NT	26.836	26876589	1061.400 ug/L
14) T 4-NT	28.223	22939939	1074.304 ug/L
15) T 3-NT	29.930	30118992	1058.715 ug/L

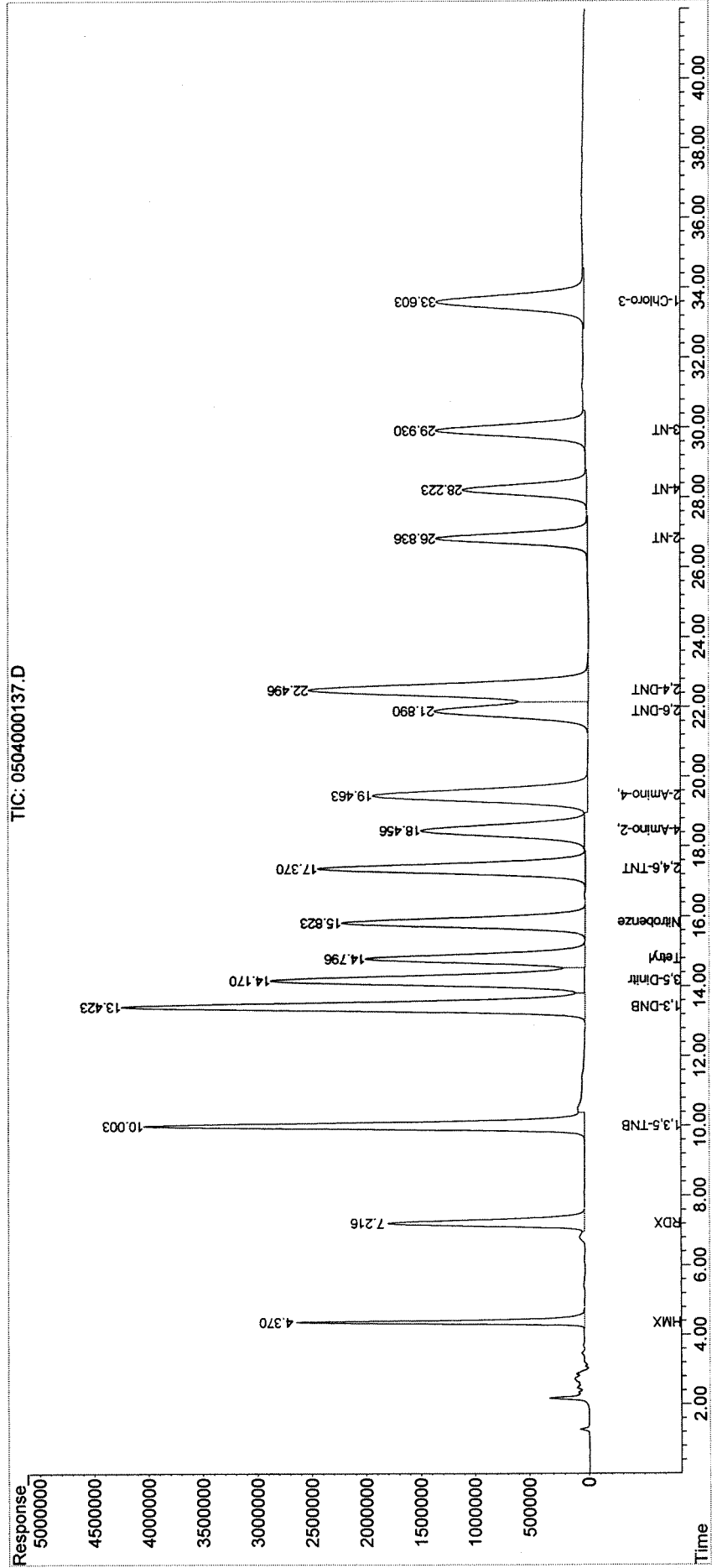
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000137.D  
Signal(s) : DAD1A.ch  
Acq On : 05-May-2015, 11:00:25  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:25:08 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
Last Update : Tue May 12 12:24:43 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000139.D  
**Lab ID:** KWG1504264-3  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/05/2015 12:23  
**Date Quantitated:** 05/12/2015 12:57  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: llc 5/13/15

Secondary Review: QA 5/18.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000139.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 05/05/2015 12:23	<b>Quant Date:</b> 05/12/2015 12:57
<b>Run Type:</b> IB	<b>Vial:</b> 1
<b>Lab ID:</b> KWG1504264-3	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/13/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0d			23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					ug/L		
HMX			0d				
RDX			0				
1,3,5-Trinitrobenzene			0d				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0d				
4-Nitrotoluene			0				
3-Nitrotoluene			0d				

U: Undetected at or above MDL  
 F: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000139.D  
 Signal(s) : DAD1A.ch  
 Acq On : 05-May-2015, 12:23:58  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:57:39 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:24:43 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
<b>Target Compounds</b>				
1) T HMX	0.000	0	N.D.	ug/L d
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L d
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L d
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L d

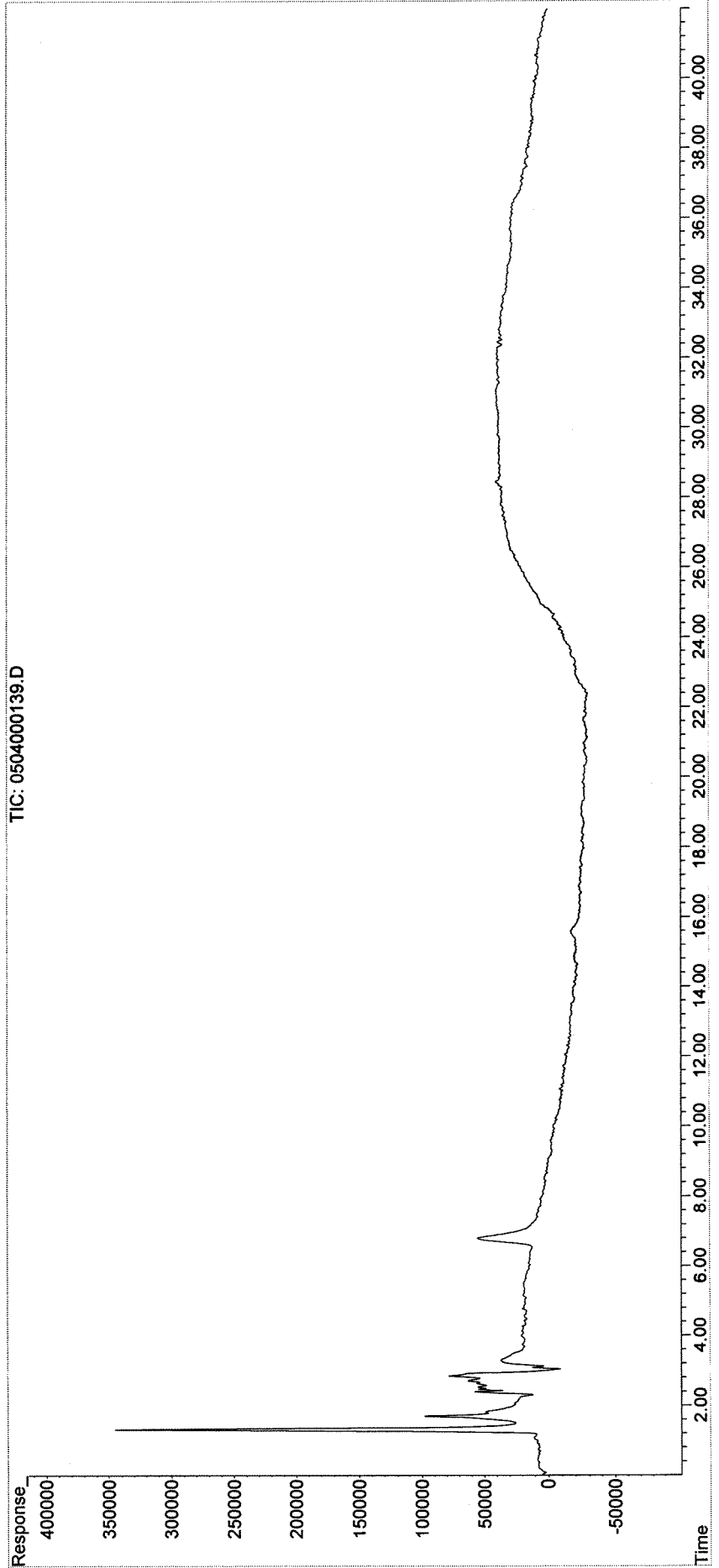
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000139.D  
Signal(s) : DAD1A.ch  
Acq On : 05-May-2015, 12:23:58  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:57:39 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:24:43 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000158.D  
**Lab ID:** KWG1504264-9  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/06/2015 01:43  
**Date Quantitated:** 05/12/2015 12:26  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: lee 5/13/15

Secondary Review: [Signature] 5.18.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000158.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 05/06/2015 01:43	<b>Quant Date:</b> 05/12/2015 12:26
<b>Run Type:</b> CCV	<b>Vial:</b> 6
<b>Lab ID:</b> KWG1504264-9	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/13/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	
<b>MB Ref:</b>	<b>Method ID:</b> MJ1278
	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.48		34672231	1,128		23-98 NA	

## Target Compounds

			Final Conc. Units:				
			ug/L				
Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.35		18198044	1,180			
RDX	7.18		22355604	1,109			
1,3,5-Trinitrobenzene	9.97		51703130	1,142			
1,3-Dinitrobenzene	13.40		70957863	1,160			
3,5-Dinitroaniline	14.14		53517608	1,103			
TETRYL	14.78		34249440	971.81			
Nitrobenzene	15.82		40450562	1,044			
2,4,6-Trinitrotoluene	17.36		47551335	1,130			
4-Amino-2,6-dinitrotoluene	18.44		34611563	1,111			
2-Amino-4,6-dinitrotoluene	19.45		46764636	1,123			
2,6-Dinitrotoluene	21.87		32968630	1,162			
2,4-Dinitrotoluene	22.48		62314504	1,105			
2-Nitrotoluene	26.80		26808456	1,059			
4-Nitrotoluene	28.16		23085072	1,081			
3-Nitrotoluene	29.85		29886651	1,051			

U: Undetected at or above MDL  
 F: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ? : Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000158.D  
 Signal(s) : DAD1A.ch  
 Acq On : 06-May-2015, 01:43:36  
 Operator : CFS  
 Sample : 14-OLC-02-33K 1PPM  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:26:11 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:25:44 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.484	34672231	1128.379 ug/L
Target Compounds			
1) T HMX	4.350	18198044	1180.265 ug/L
2) T RDX	7.177	22355604	1109.348 ug/L
3) T 1,3,5-TNB	9.970	51703130	1141.578 ug/L
4) T 1,3-DNB	13.397	70957863	1160.305 ug/L
5) T 3,5-Dinitroaniline	14.144	53517608	1103.435 ug/L
6) T Tetryl	14.777	34249440	971.812 ug/L
7) T Nitrobenzene	15.817	40450562	1043.840 ug/L
8) T 2,4,6-TNT	17.364	47551335	1129.762 ug/L
9) T 4-Amino-2,6-DNT	18.444	34611563	1110.916 ug/L
10) T 2-Amino-4,6-DNT	19.450	46764636	1123.006 ug/L
11) T 2,6-DNT	21.870	32968630	1161.924 ug/L
12) T 2,4-DNT	22.477	62314504	1105.272 ug/L
13) T 2-NT	26.797	26808456	1058.709 ug/L
14) T 4-NT	28.164	23085072	1081.101 ug/L
15) T 3-NT	29.850	29886651	1050.548 ug/L
-----			

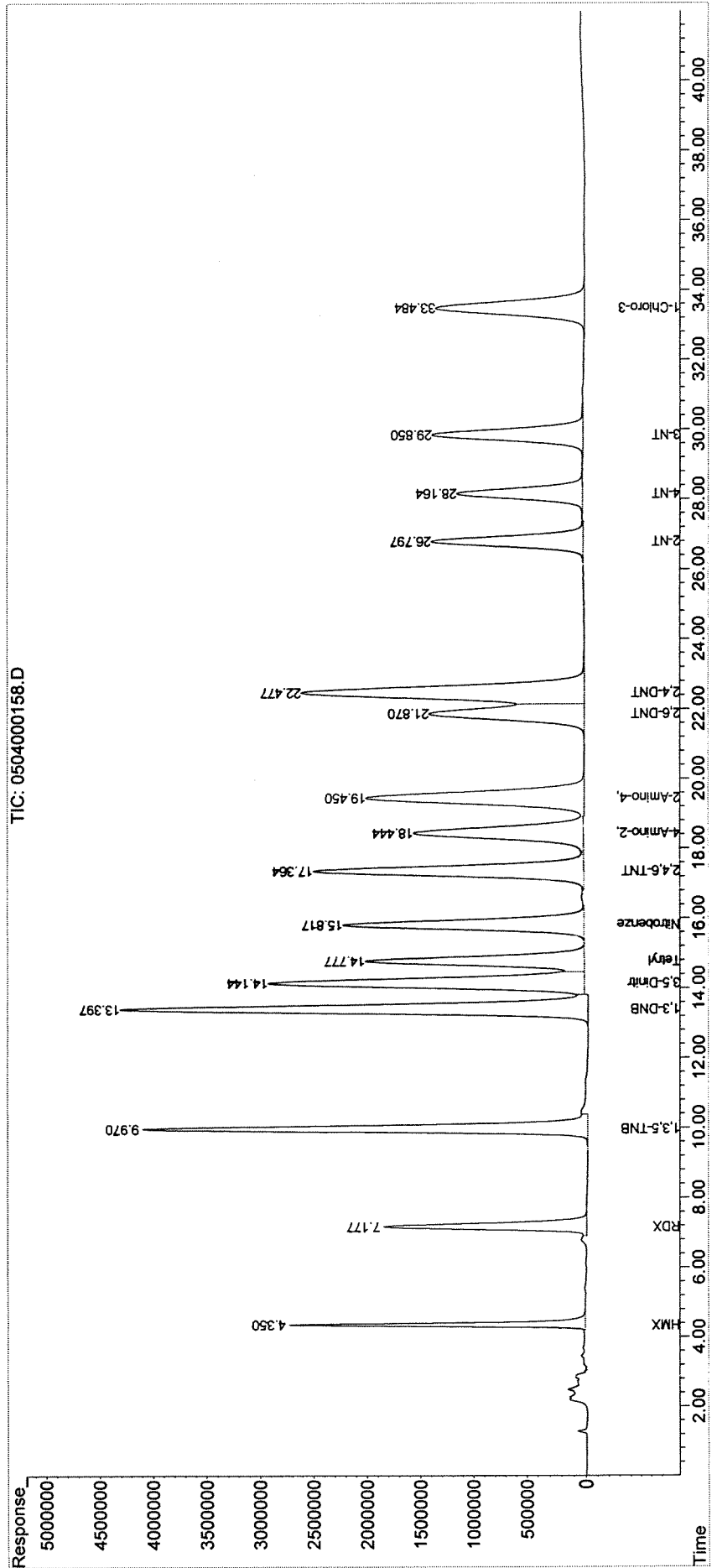
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000158.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 01:43:36  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:11 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000159.D  
**Lab ID:** KWG1504264-4  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/06/2015 02:30  
**Date Quantitated:** 05/12/2015 12:26  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review:     *Qu 5/13/15*    

Secondary Review:     *QA 5.18.15*

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000159.D	<b>Instrument:</b> LC10	
<b>Acqu Date:</b> 05/06/2015 02:30	<b>Quant Date:</b> 05/12/2015 12:26	<b>Vial:</b> 4
<b>Run Type:</b> IB	<b>Dilution:</b> 1.0	
<b>Lab ID:</b> KWG1504264-4	<b>Soln Conc. Units:</b> ug/L	

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/13/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA

## Target Compounds

			Final Conc. Units:		ug/L		
Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene	18.38		107460	3.45			
2-Amino-4,6-dinitrotoluene	19.34		95643	2.30			
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	26.84		199854	7.89			
4-Nitrotoluene	28.15		88849	4.16			
3-Nitrotoluene	29.93		111840	3.93			

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution



Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000159.D  
 Signal(s) : DAD1A.ch  
 Acq On : 06-May-2015, 02:30:48  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 12:26:13 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:25:44 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	18.379	107460	3.449	ug/L
10) T 2-Amino-4,6-DNT	19.339	95643	2.297	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	26.839	199854	7.893	ug/L
14) T 4-NT	28.153	88849	4.161	ug/L
15) T 3-NT	29.933	111840	3.931	ug/L

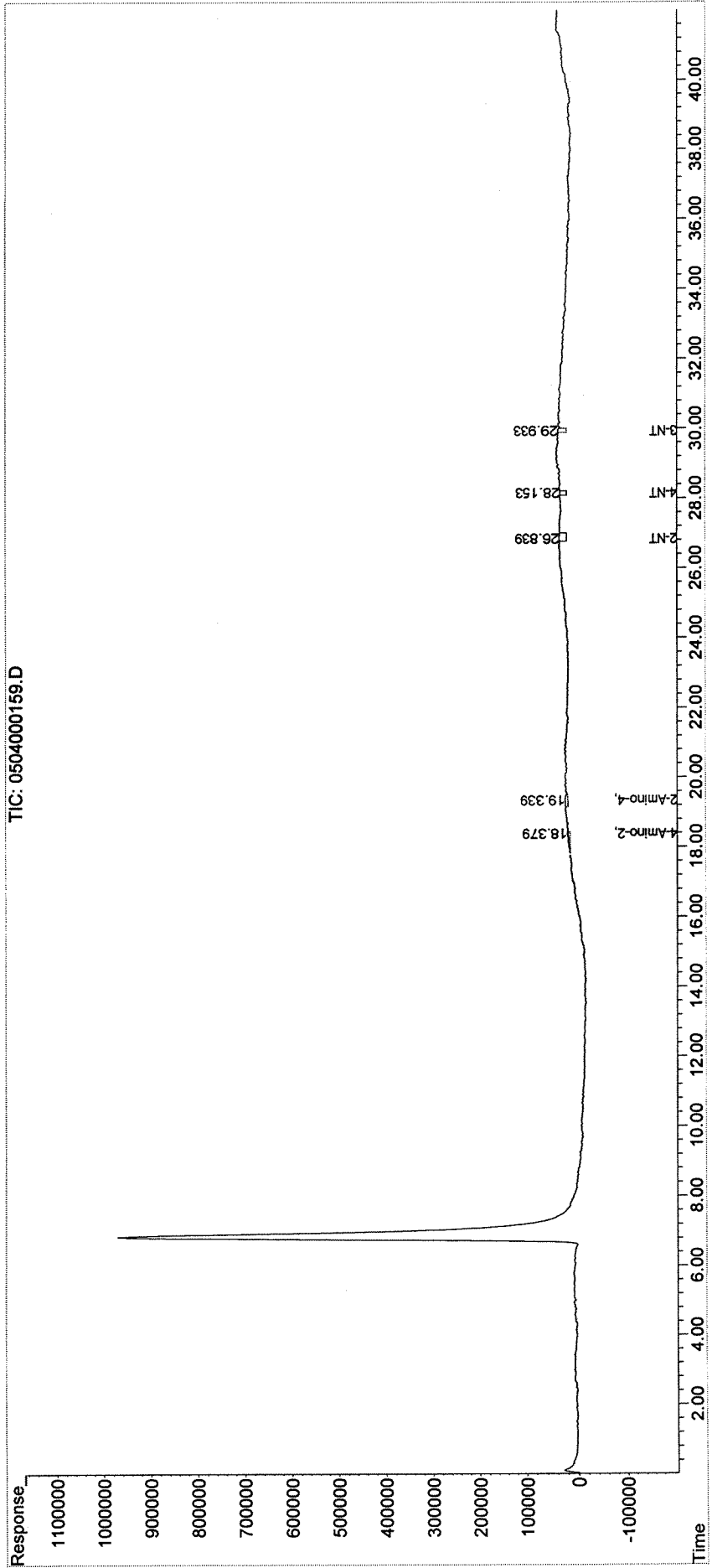
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000159.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 02:30:48  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:13 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000166.D  
**Lab ID:** KWG1504264-10  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/06/2015 08:01  
**Date Quantitated:** 05/12/2015 16:06  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review:     05/13/15    

Secondary Review:     05/18/15

# Quantitation Report

<b>Data File:</b>	J:\LC10\DATA\050415X\254\0504000166.D	<b>Instrument:</b>	LC10
<b>Acqu Date:</b>	05/06/2015 08:01	<b>Quant Date:</b>	05/12/2015 16:06
<b>Run Type:</b>	CCV	<b>Vial:</b>	6
<b>Lab ID:</b>	KWG1504264-10	<b>Dilution:</b>	1.0
		<b>Soln Conc. Units:</b>	ug/L

<b>Bottle ID:</b>		<b>Tier:</b>		<b>Matrix:</b>	NOT APPLICABLE
<b>Prod Code:</b>	8330B NITRAMARO	<b>Collect Date:</b>		<b>Receive Date:</b>	05/13/2015

<b>Analysis Lot:</b>	KWG1504264	<b>Prep Lot:</b>		<b>Report Group:</b>	
<b>Analysis Method:</b>	8330B	<b>Prep Method:</b>			
<b>Prep Ref:</b>		<b>Prep Date:</b>			

<b>Quant Method:</b>	J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b>	CAL13891
<b>Title:</b>		<b>Method ID:</b>	MJ1278
<b>MB Ref:</b>		<b>Quant based on Method</b>	

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.54		34618368	1,127		23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units:		Q	Rpt?
				Solution Conc	Final Conc		
HMX	4.36		17544111m	1,138			
RDX	7.20		22374584m	1,110			
1,3,5-Trinitrobenzene	9.99		52049169	1,149			
1,3-Dinitrobenzene	13.41		71255902	1,165			
3,5-Dinitroaniline	14.17		55269114	1,140			
TETRYL	14.79		34598476	981.72			
Nitrobenzene	15.83		40459277	1,044			
2,4,6-Trinitrotoluene	17.37		47152025	1,120			
4-Amino-2,6-dinitrotoluene	18.45		33713184	1,082			
2-Amino-4,6-dinitrotoluene	19.46		47236184	1,134			
2,6-Dinitrotoluene	21.86		33426216	1,178			
2,4-Dinitrotoluene	22.47		62373911	1,106			
2-Nitrotoluene	26.81		26603466m	1,051			
4-Nitrotoluene	28.18		23382364	1,095			
3-Nitrotoluene	29.88		30285137	1,065			

J: Undetected at or above MDL  
 f: Analyte detected above MDL, but below MRL  
 3: Hit above MRL also found in Method Blank  
 e: Analyte concentration above high point of ICAL  
 v: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000166.D  
 Signal(s) : DAD1A.ch  
 Acq On : 06-May-2015, 08:01:19  
 Operator : CFS  
 Sample : 14-OLC-02-33K 1PPM  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 16:06:27 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:25:44 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
16) S 1-Chloro-3-Nitrobenzene	33.541	34618368	1126.626 ug/L
Target Compounds			
1) T HMX	4.361	17544111	1137.853 ug/L m
2) T RDX	7.201	22374584	1110.294 ug/L m
3) T 1,3,5-TNB	9.988	52049169	1149.218 ug/L
4) T 1,3-DNB	13.415	71255902	1165.179 ug/L
5) T 3,5-Dinitroaniline	14.175	55269114	1139.548 ug/L
6) T Tetryl	14.788	34598476	981.716 ug/L
7) T Nitrobenzene	15.835	40459277	1044.065 ug/L
8) T 2,4,6-TNT	17.368	47152025	1120.275 ug/L
9) T 4-Amino-2,6-DNT	18.455	33713184	1082.081 ug/L
10) T 2-Amino-4,6-DNT	19.461	47236184	1134.330 ug/L
11) T 2,6-DNT	21.861	33426216	1178.051 ug/L
12) T 2,4-DNT	22.468	62373911	1106.325 ug/L
13) T 2-NT	26.808	26603466	1050.614 ug/L m
14) T 4-NT	28.181	23382364	1095.024 ug/L
15) T 3-NT	29.881	30285137	1064.556 ug/L
-----			

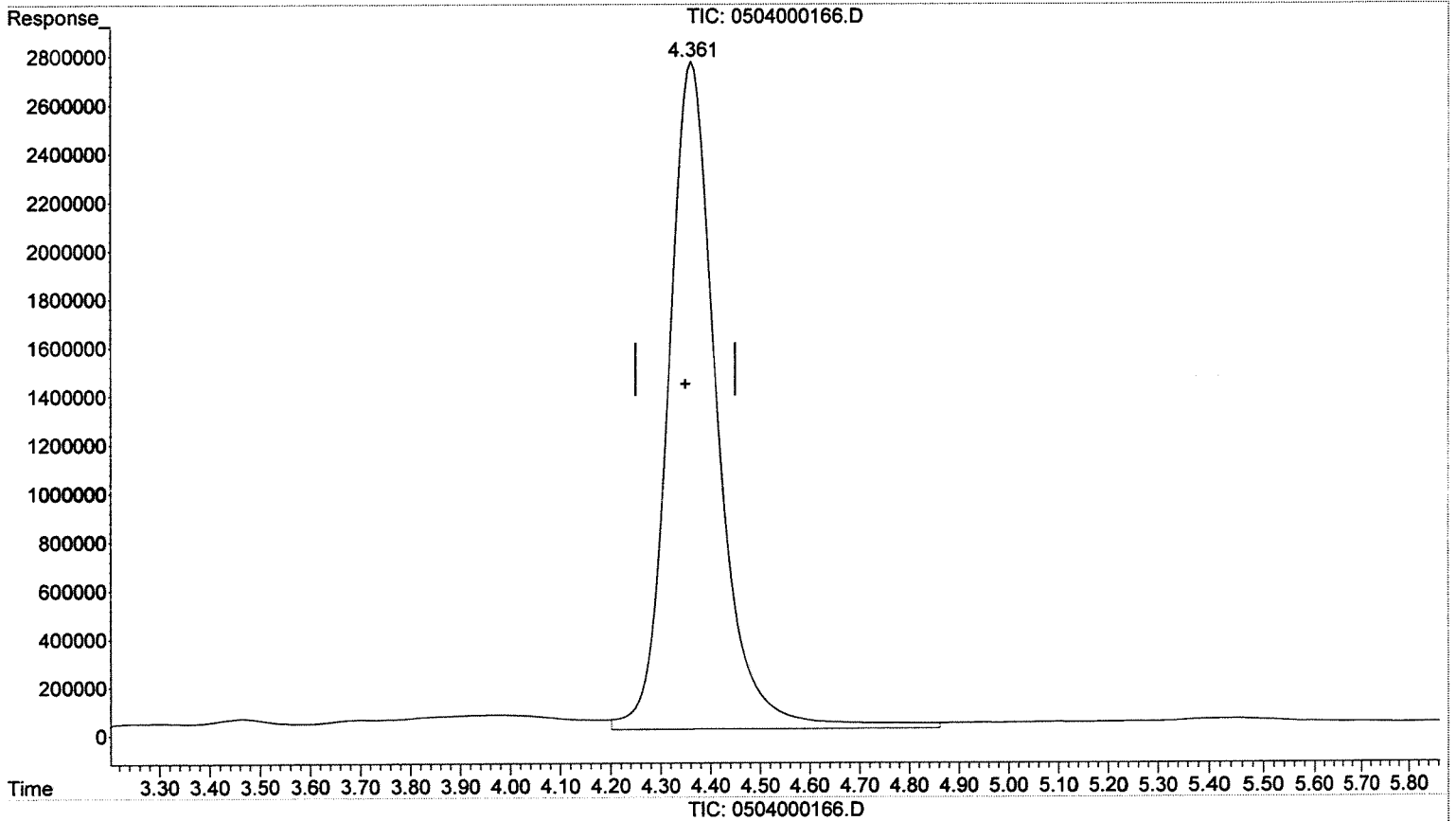
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000166.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 08:01:19  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:29 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.361min 1216.282 ug/L  
response 18753372

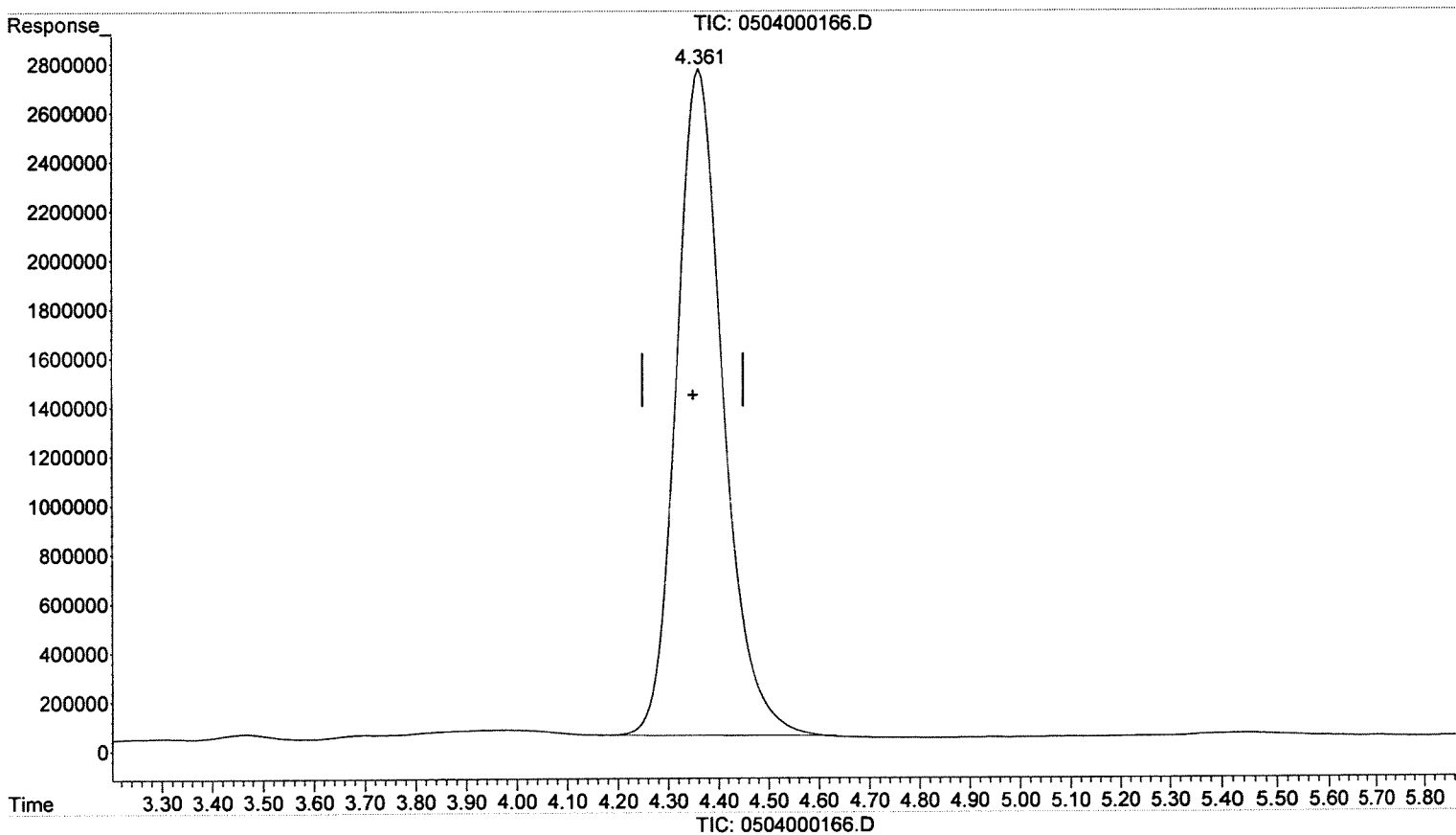
Manual Integration:  
Before

05/12/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000166.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 08:01:19  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:29 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(1) HMX (T)  
4.361min 1137.853 ug/L m  
response 17544111

Manual Integration:

After

BLC

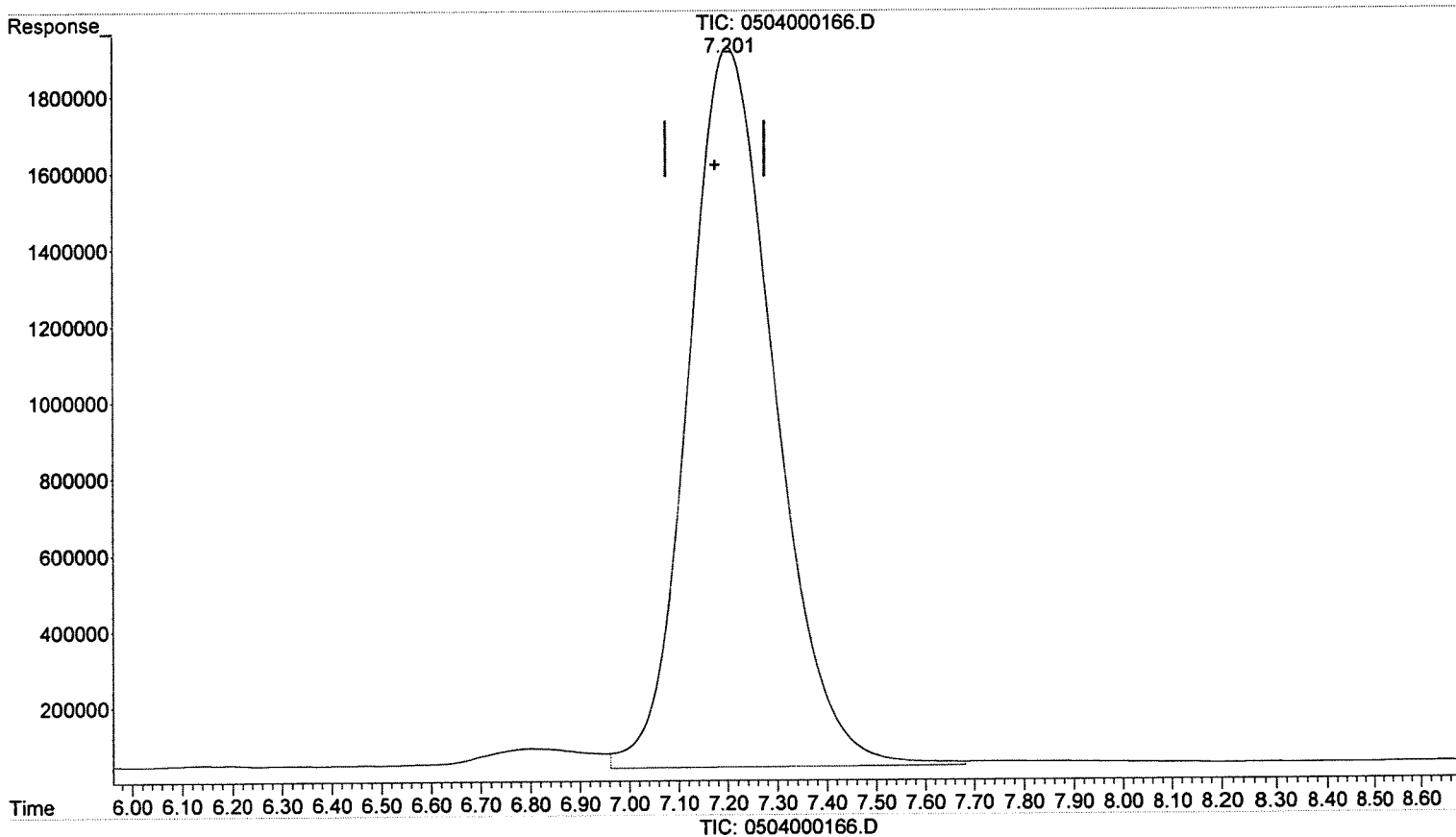
05/12/15

*Handwritten signature*  
5.18.15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000166.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 08:01:19  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:29 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.201min 1134.517 ug/L  
response 22860994

Manual Integration:

Before

05/12/15

(+) = Expected Retention Time  
031615\_8330B@254.M Tue May 12 16:06:05 2015

05/18.15

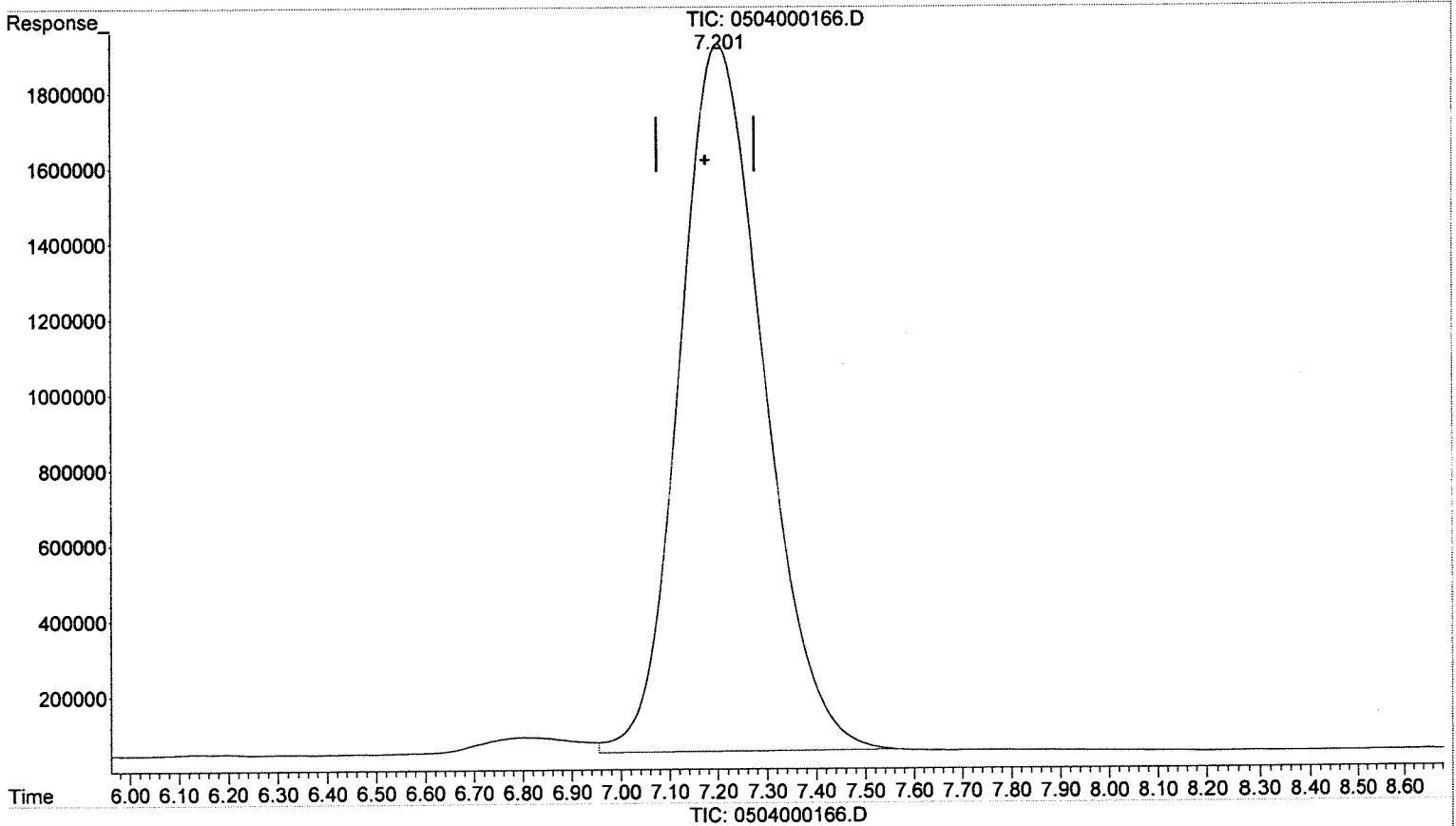
Page: 1



Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000166.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 08:01:19  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:29 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(2) RDX (T)  
7.201min 1110.294 ug/L m  
response 22374584

Manual Integration:

After

BLC

05/12/15

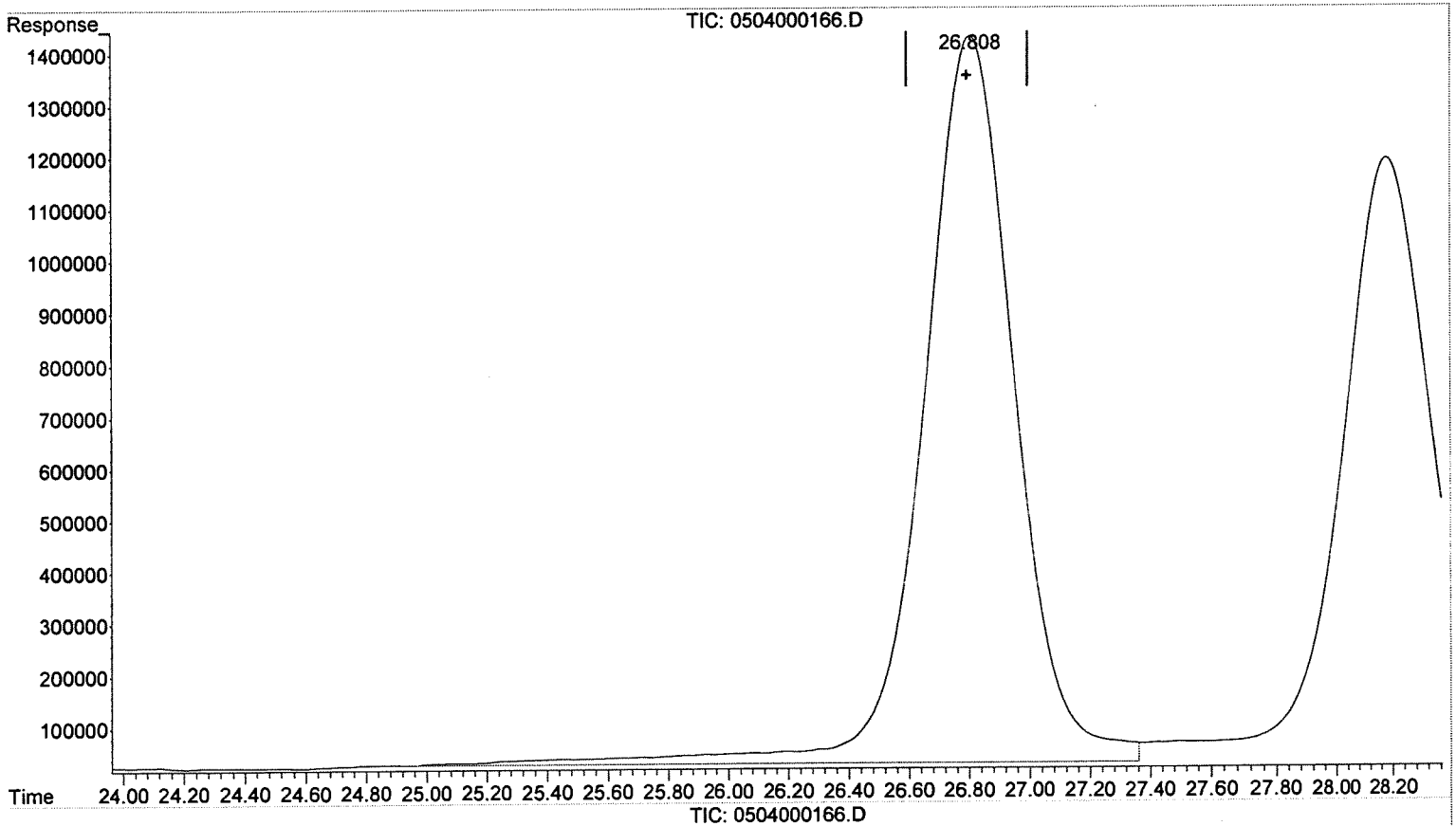
(+) = Expected Retention Time  
031615\_8330B@254.M Tue May 12 16:06:13 2015

~~05/18/15~~  
5.18.15  
Page: 1

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000166.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 08:01:19  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:29 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.808min 1168.043 ug/L  
response 29576976

Manual Integration:

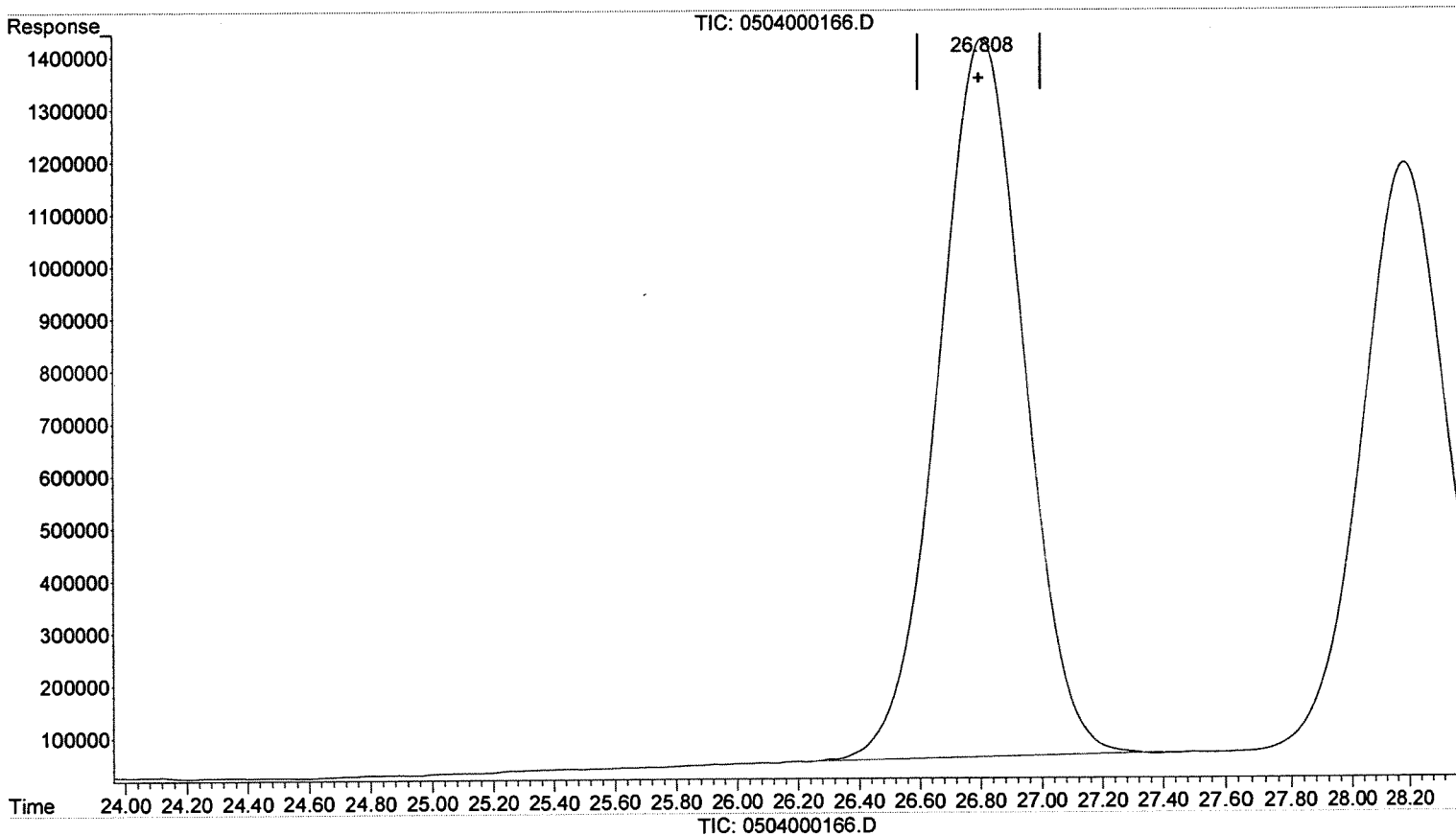
Before

05/12/15

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000166.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 08:01:19  
Operator : CFS  
Sample : 14-OLC-02-33K 1PPM  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 12:26:29 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm



(13) 2-NT (T)  
26.808min 1050.614 ug/L m  
response 26603466

Manual Integration:

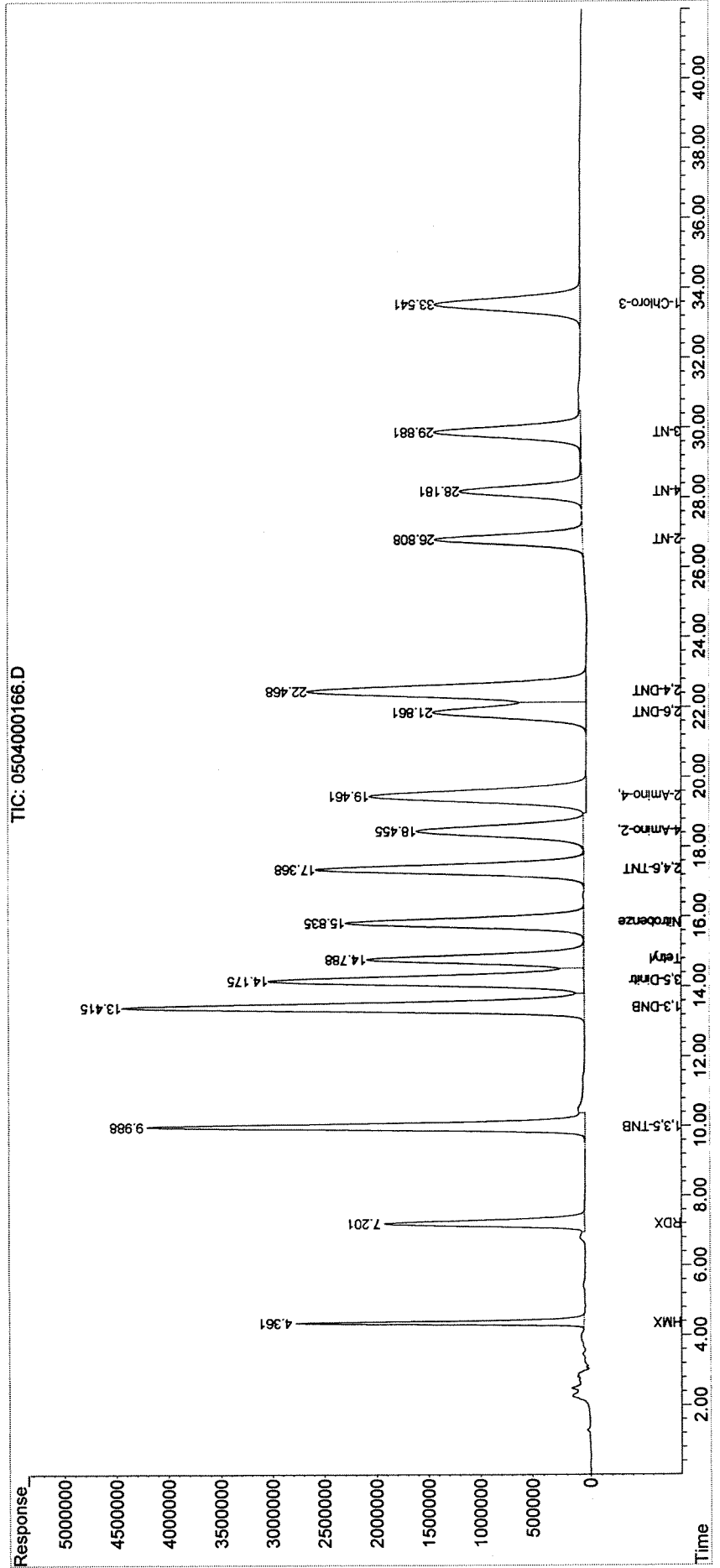
After  
BLC  
05/12/15

05/18/15

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000166.D  
 Signal(s) : DAD1A.ch  
 Acq On : 06-May-2015, 08:01:19  
 Operator : CFS  
 Sample : 14-OLC-02-33K 1PPM  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 16:06:27 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:25:44 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm



# Exception Report

**Data File:** J:\LC10\DATA\050415X\254\0504000167.D  
**Lab ID:** KWG1504264-5  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 05/06/2015 08:48  
**Date Quantitated:** 05/12/2015 16:06  
**Batch ID:** KWG1504264  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: lu 5/13/15

Secondary Review: OP 5/18/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\050415X\254\0504000167.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 05/06/2015 08:48	<b>Quant Date:</b> 05/12/2015 16:06
<b>Run Type:</b> IB	<b>Vial:</b> 5
<b>Lab ID:</b> KWG1504264-5	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/13/2015

<b>Analysis Lot:</b> KWG1504264	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13891
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0d			23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
HMX			0d				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0d				
3,5-Dinitroaniline			0				
TETRYL			0d				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\050415X\254\  
 Data File : 0504000167.D  
 Signal(s) : DAD1A.ch  
 Acq On : 06-May-2015, 08:48:32  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 16:06:49 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@254.M  
 Quant Title : CAL13891  
 QLast Update : Tue May 12 12:25:44 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100uL  
 Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
 Signal Info : C18 | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
16) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L d
2) T RDX	0.000	0	N.D.	ug/L
3) T 1,3,5-TNB	0.000	0	N.D.	ug/L
4) T 1,3-DNB	0.000	0	N.D.	ug/L d
5) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
6) T Tetryl	0.000	0	N.D.	ug/L d
7) T Nitrobenzene	0.000	0	N.D.	ug/L
8) T 2,4,6-TNT	0.000	0	N.D.	ug/L
9) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
10) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
11) T 2,6-DNT	0.000	0	N.D.	ug/L
12) T 2,4-DNT	0.000	0	N.D.	ug/L
13) T 2-NT	0.000	0	N.D.	ug/L
14) T 4-NT	0.000	0	N.D.	ug/L
15) T 3-NT	0.000	0	N.D.	ug/L
-----				

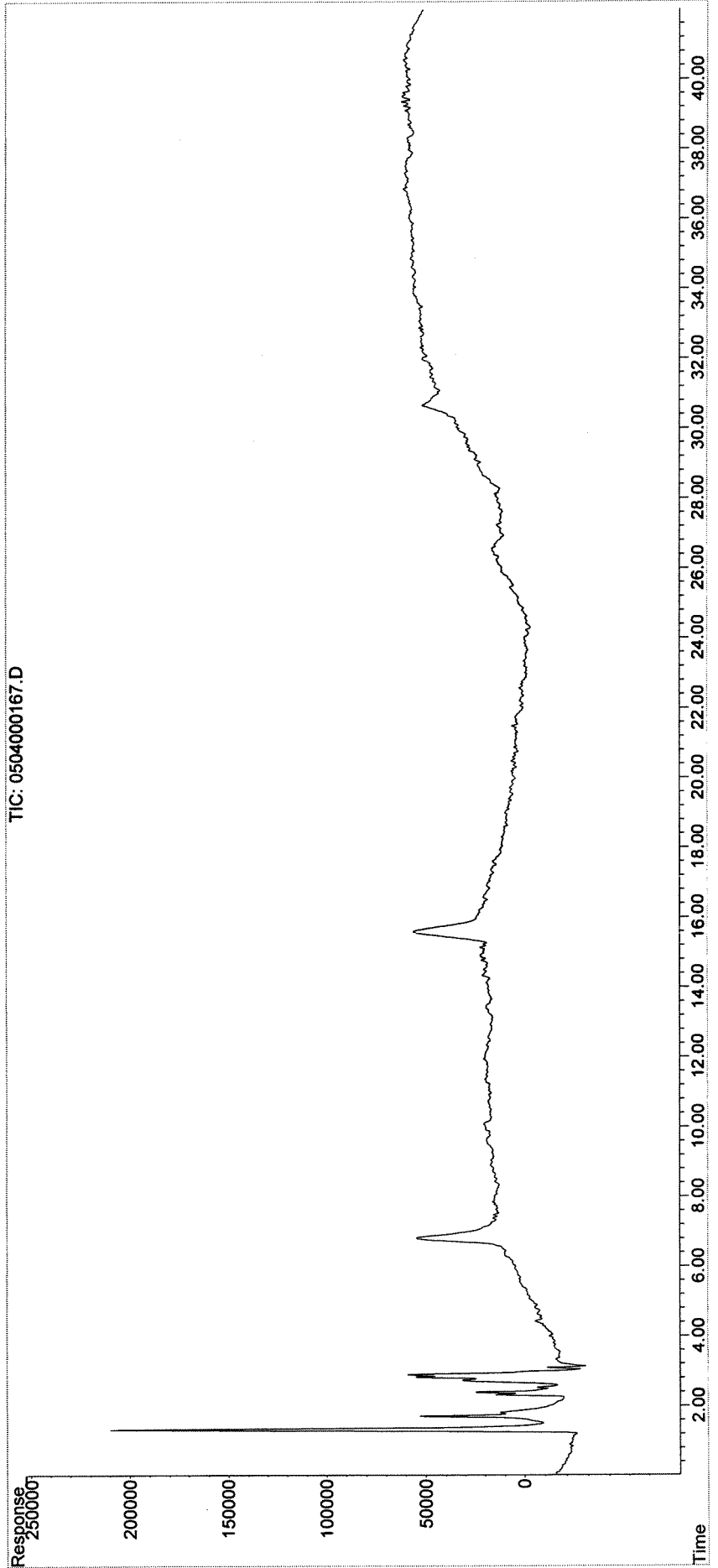
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\050415X\254\  
Data File : 0504000167.D  
Signal(s) : DAD1A.ch  
Acq On : 06-May-2015, 08:48:32  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 16:06:49 2015  
Quant Method : J:\LC10\Method\031615\_8330B@254.M  
Quant Title : CAL13891  
QLast Update : Tue May 12 12:25:44 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100uL  
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18  
Signal Info : C18 | DAD @ 254nm





# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000202.D  
**Lab ID:** KWG1503922-1  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/23/2015 20:19  
**Date Quantitated:** 05/12/2015 09:06  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

8315 ✓

Primary Review: Joe 5/12/15

Secondary Review: Joe 5/12/15

# Quantitation Report

Data File: J:\LC10\DATA\042315X\210\0423000202.D	Instrument: LC10
Acqu Date: 04/23/2015 20:19	Quant Date: 05/12/2015 09:06
Run Type: IB	Vial: 42
Lab ID: KWG1503922-1	Dilution: 1.0
	Soln Conc. Units: ug/L

Bottle ID:	Tier:	Matrix: NOT APPLICABLE
Prod Code: 8330B NITRAMARO	Collect Date:	Receive Date: 05/05/2015

Analysis Lot: KWG1503922	Prep Lot:	Report Group:
Analysis Method: 8330B	Prep Method:	
Prep Ref:	Prep Date:	

Quant Method: J:\LC10\METHOD\031615_8330B	Calibration ID: CAL13892
Title:	Method ID: MJ1278
MB Ref:	Quant based on Method

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0d			23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0				

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000202.D  
 Signal(s) : DAD1B.ch  
 Acq On : 23-Apr-2015, 20:19:45  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:06:18 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 08:49:12 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L

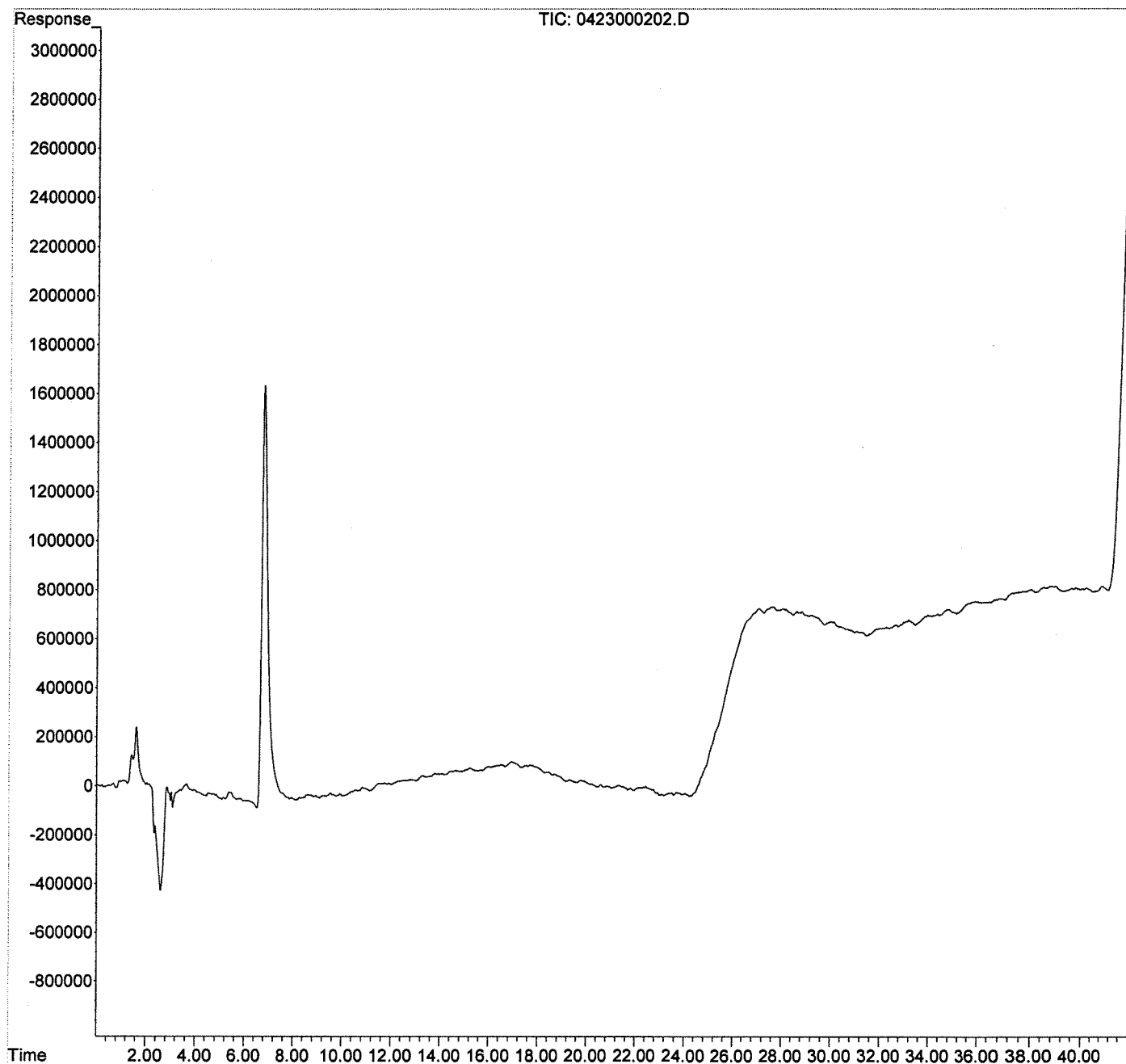
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000202.D  
Signal(s) : DAD1B.ch  
Acq On : 23-Apr-2015, 20:19:45  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:06:18 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000203.D  
**Lab ID:** KWG1503922-4  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/23/2015 21:30  
**Date Quantitated:** 05/12/2015 09:03  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: lu 5/12/15

Secondary Review: QA 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000203.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/23/2015 21:30	<b>Quant Date:</b> 05/12/2015 09:03
<b>Run Type:</b> CCV	<b>Vial:</b> 43
<b>Lab ID:</b> KWG1503922-4	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.44		77274154	931.22		23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Final Conc. Units: ug/L		Q	Rpt?
				Solution Conc	Final Conc		
Nitroglycerin	15.77		38883798	938.65			
Pentaerythritol Tetranitrate	29.80		57831779	988.17			

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000203.D  
Signal(s) : DAD1B.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:03:30 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.439	77274154	931.220 ug/L
Target Compounds			
1) T Nitroglycerin	15.765	38883798	938.653 ug/L
2) T PETN	29.799	57831779	988.165 ug/L
-----			

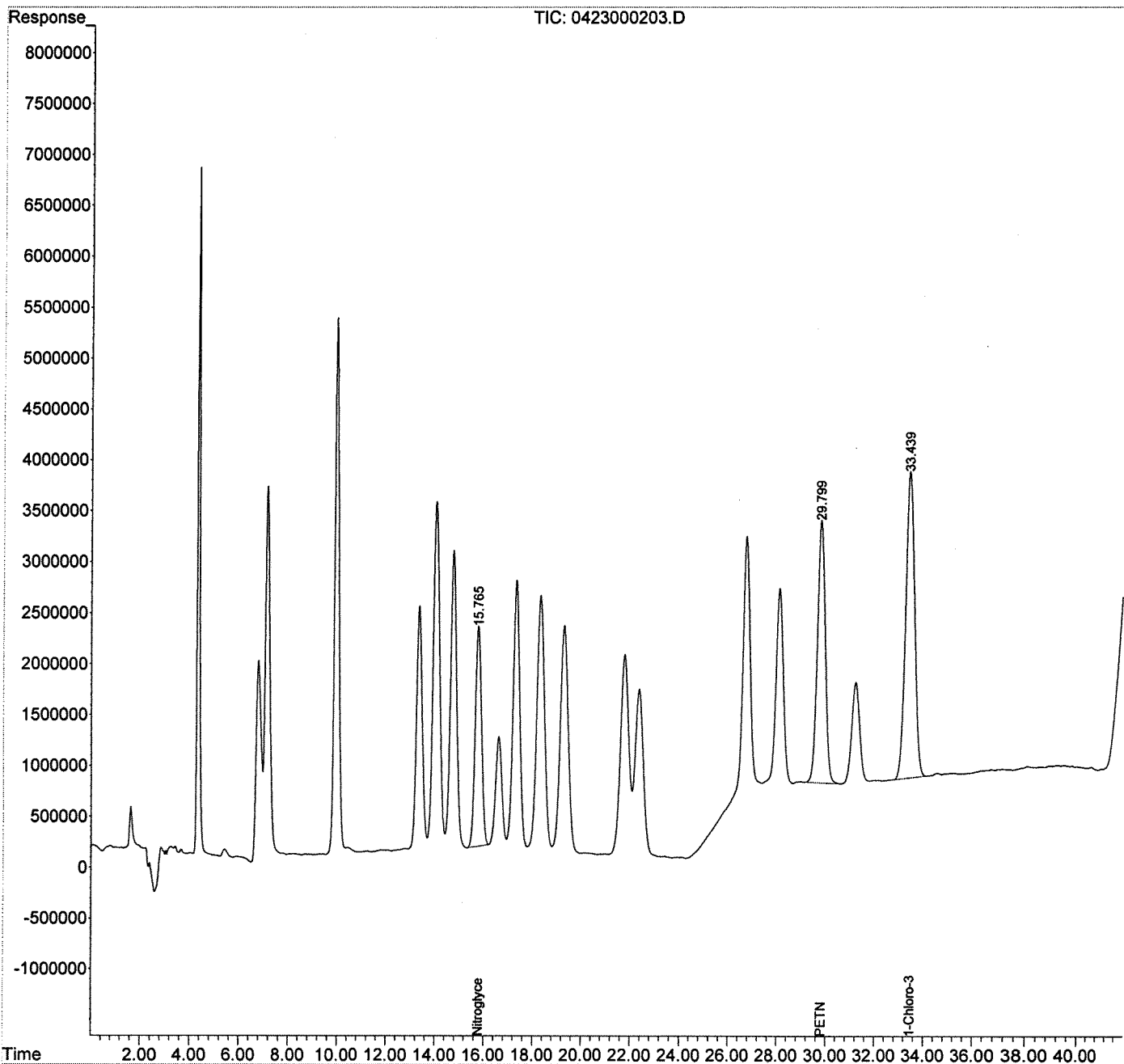
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000203.D  
Signal(s) : DAD1B.ch  
Acq On : 23-Apr-2015, 21:30:31  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:03:30 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 08:49:12 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm





# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000214.D  
**Lab ID:** KWG1503922-5  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/24/2015 10:29  
**Date Quantitated:** 05/12/2015 09:05  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: llc 5/12/15

Secondary Review: [Signature] 5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000214.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 10:29	<b>Quant Date:</b> 05/12/2015 09:05
<b>Run Type:</b> CCV	<b>Vial:</b> 44
<b>Lab ID:</b> KWG1503922-5	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b>	
<b>MB Ref:</b>	<b>Method ID:</b> MJ1278
	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.32		83456492	1,006		23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	15.73		42111517	1,017			
Pentaerythritol Tetranitrate	29.71		62151330	1,062			

J: Undetected at or above MDL  
 1: Analyte detected above MDL, but below MRL  
 2: Hit above MRL also found in Method Blank  
 3: Analyte concentration above high point of ICAL  
 4: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000214.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 10:29:00  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:05:33 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.320	83456492	1005.722 ug/L
Target Compounds			
1) T Nitroglycerin	15.727	42111517	1016.570 ug/L
2) T PETN	29.714	62151330	1061.972 ug/L
-----			

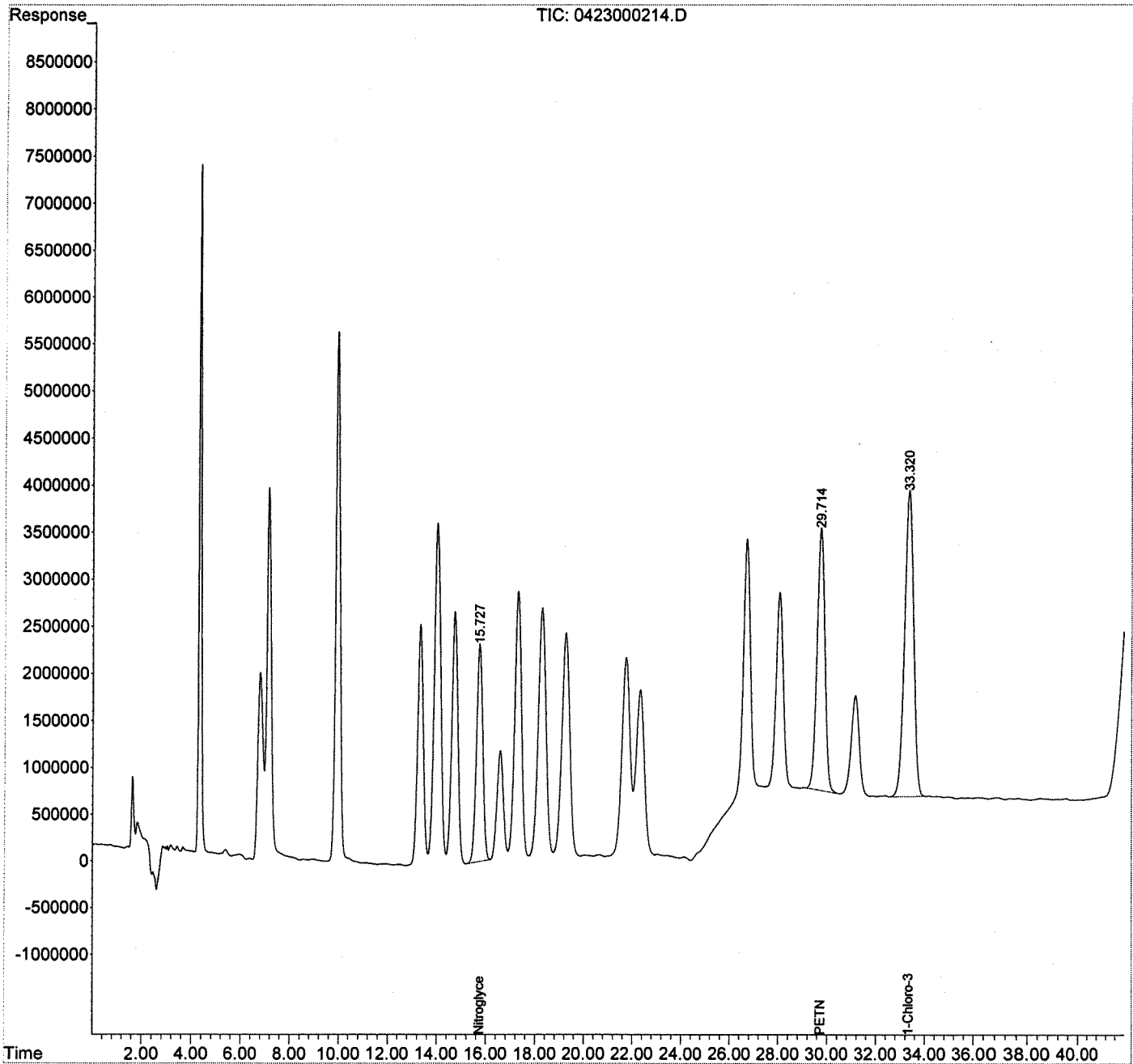
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000214.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 10:29:00  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:05:33 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000215.D  
**Lab ID:** KWG1503922-2  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/24/2015 11:39  
**Date Quantitated:** 05/12/2015 09:09  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: Jan 5/12/15

Secondary Review: QA 5.12.15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000215.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 11:39	<b>Quant Date:</b> 05/12/2015 09:09
<b>Run Type:</b> IB	<b>Vial:</b> 42
<b>Lab ID:</b> KWG1503922-2	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b>	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0d			23-98	NA

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0d				

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000215.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 11:39:47  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:09:13 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L
2) T PETN	0.000	0	N.D.	ug/L d
-----				

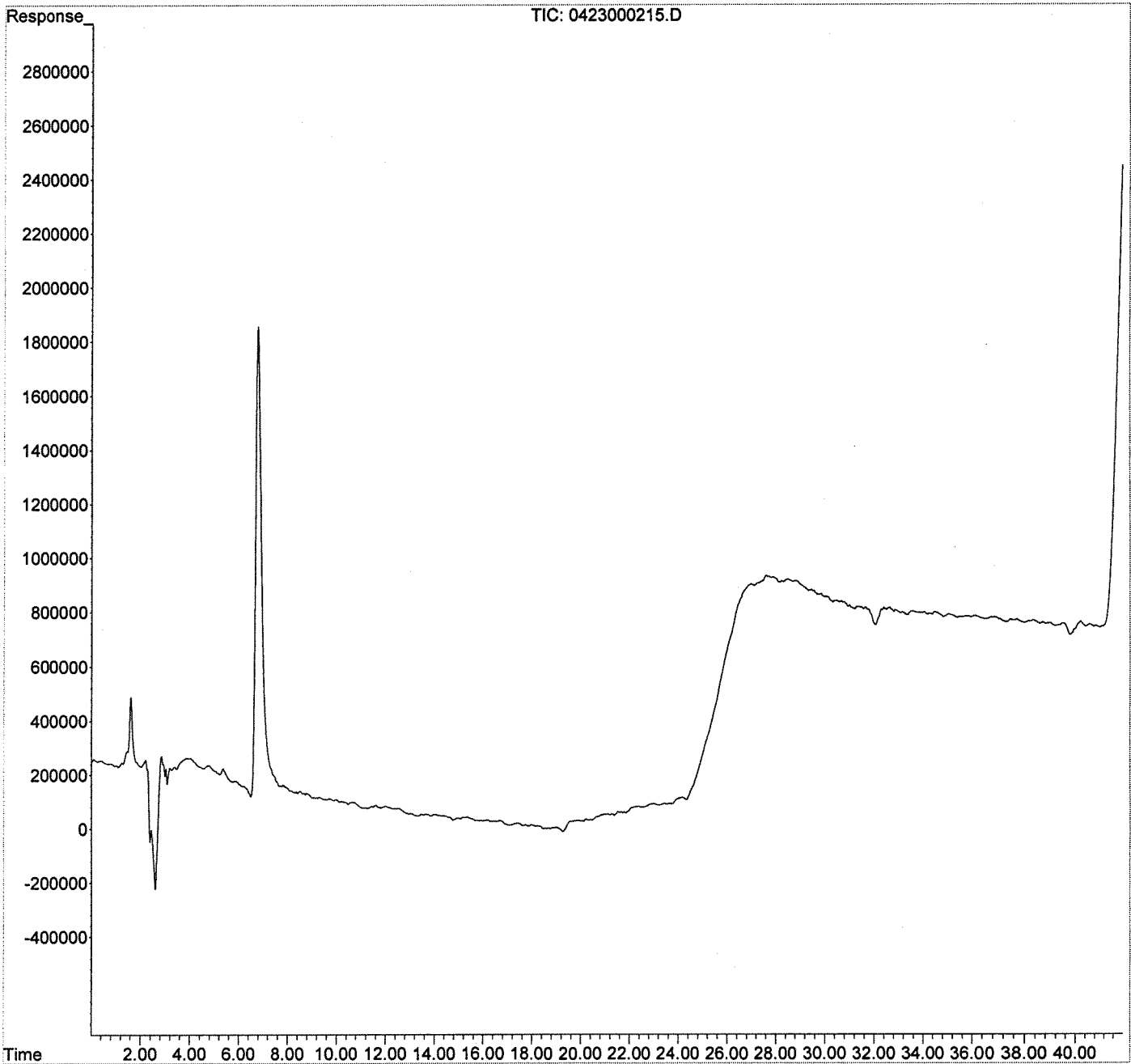
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000215.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 11:39:47  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:09:13 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm





# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000221.D  
**Lab ID:** KWG1503922-6  
**RunType:** CCV  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/24/2015 18:44  
**Date Quantitated:** 05/12/2015 09:05  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review:      5/12/15

Secondary Review:      5/12/15

# Quantitation Report

<b>Data File:</b> J:\LC10\DATA\042315X\210\0423000221.D	<b>Instrument:</b> LC10
<b>Acqu Date:</b> 04/24/2015 18:44	<b>Quant Date:</b> 05/12/2015 09:05
<b>Run Type:</b> CCV	<b>Vial:</b> 43
<b>Lab ID:</b> KWG1503922-6	<b>Dilution:</b> 1.0
	<b>Soln Conc. Units:</b> ug/L

<b>Bottle ID:</b>	<b>Tier:</b>	<b>Matrix:</b> NOT APPLICABLE
<b>Prod Code:</b> 8330B NITRAMARO	<b>Collect Date:</b>	<b>Receive Date:</b> 05/05/2015

<b>Analysis Lot:</b> KWG1503922	<b>Prep Lot:</b>	<b>Report Group:</b>
<b>Analysis Method:</b> 8330B	<b>Prep Method:</b>	
<b>Prep Ref:</b>	<b>Prep Date:</b>	

<b>Quant Method:</b> J:\LC10\METHOD\031615_8330B	<b>Calibration ID:</b> CAL13892
<b>Title:</b>	
	<b>Method ID:</b> MJ1278
<b>MB Ref:</b>	<b>Quant based on Method</b>

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene	33.23		77547124	934.51		23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
					Final Conc. Units: ug/L		
Nitroglycerin	15.65		38604989	931.92			
Pentaerythritol Tetranitrate	29.65		56680492	968.49			

J: Undetected at or above MDL  
 : Analyte detected above MDL, but below MRL  
 3: Hit above MRL also found in Method Blank  
 5: Analyte concentration above high point of ICAL  
 4: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000221.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 18:44:27  
 Operator : CFS  
 Sample : 14-OLC-01-58K 1PPM  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:05:48 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
3) S 1-Chloro-3-Nitrobenzene	33.234	77547124	934.509 ug/L
Target Compounds			
1) T Nitroglycerin	15.654	38604989	931.922 ug/L
2) T PETN	29.648	56680492	968.493 ug/L
-----			

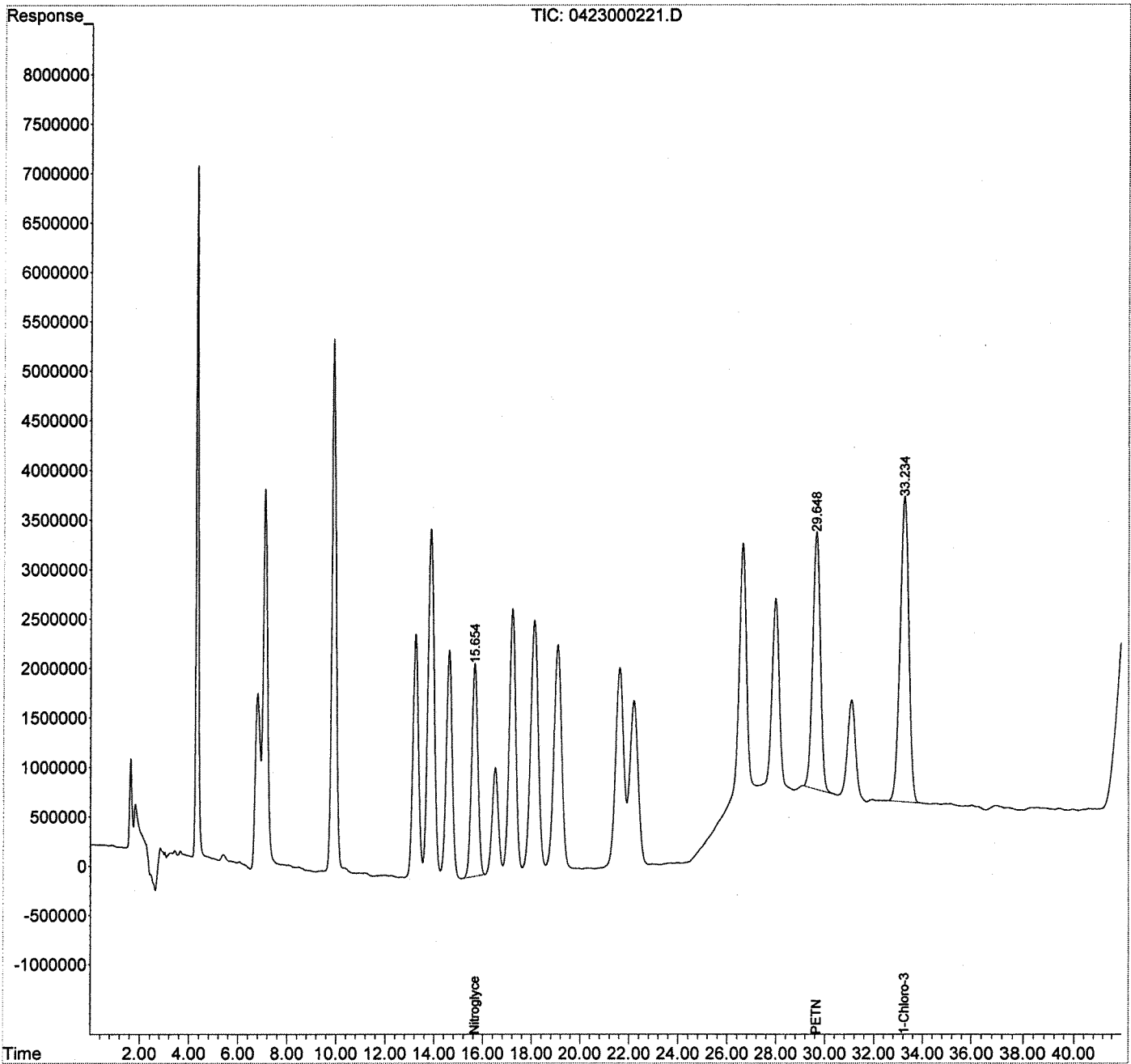
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000221.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 18:44:27  
Operator : CFS  
Sample : 14-OLC-01-58K 1PPM  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:05:48 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm



# Exception Report

**Data File:** J:\LC10\DATA\042315X\210\0423000222.D  
**Lab ID:** KWG1503922-3  
**RunType:** IB  
**Matrix:** NOT APPLICABLE

**Date Acquired:** 04/24/2015 19:55  
**Date Quantitated:** 05/12/2015 09:06  
**Batch ID:** KWG1503922  
**Analysis Method:** 8330B  
**MethodJoinID:** MJ1278

## Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review:      *05/12/15*

Secondary Review:      *05/12/15*

# Quantitation Report

Data File: J:\LC10\DATA\042315X\210\0423000222.D	Instrument: LC10
Acqu Date: 04/24/2015 19:55	Quant Date: 05/12/2015 09:06
Run Type: IB	Vial: 42
Lab ID: KWG1503922-3	Dilution: 1.0
	Soln Conc. Units: ug/L

Bottle ID:	Tier:	Matrix: NOT APPLICABLE
Prod Code: 8330B NITRAMARO	Collect Date:	Receive Date: 05/05/2015

Analysis Lot: KWG1503922	Prep Lot:	Report Group:
Analysis Method: 8330B	Prep Method:	
Prep Ref:	Prep Date:	

Quant Method: J:\LC10\METHOD\031615_8330B	Calibration ID: CAL13892
Title:	
MB Ref:	Method ID: MJ1278
	Quant based on Method

## Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1-Chloro-3-nitrobenzene			0d			23-98 NA	

## Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0d				
Pentaerythritol Tetranitrate			0d				

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data Path : J:\LC10\Data\042315X\210\  
 Data File : 0423000222.D  
 Signal(s) : DAD1B.ch  
 Acq On : 24-Apr-2015, 19:55:16  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 12 09:06:06 2015  
 Quant Method : J:\LC10\Method\031615\_8330B@210.M  
 Quant Title : CAL13892  
 QLast Update : Tue May 12 09:05:16 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Synergi Hydro 4.6x250mm  
 Signal Info : C18 | DAD @ 210nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
3) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds				
1) T Nitroglycerin	0.000	0	N.D.	ug/L d
2) T PETN	0.000	0	N.D.	ug/L d
-----				

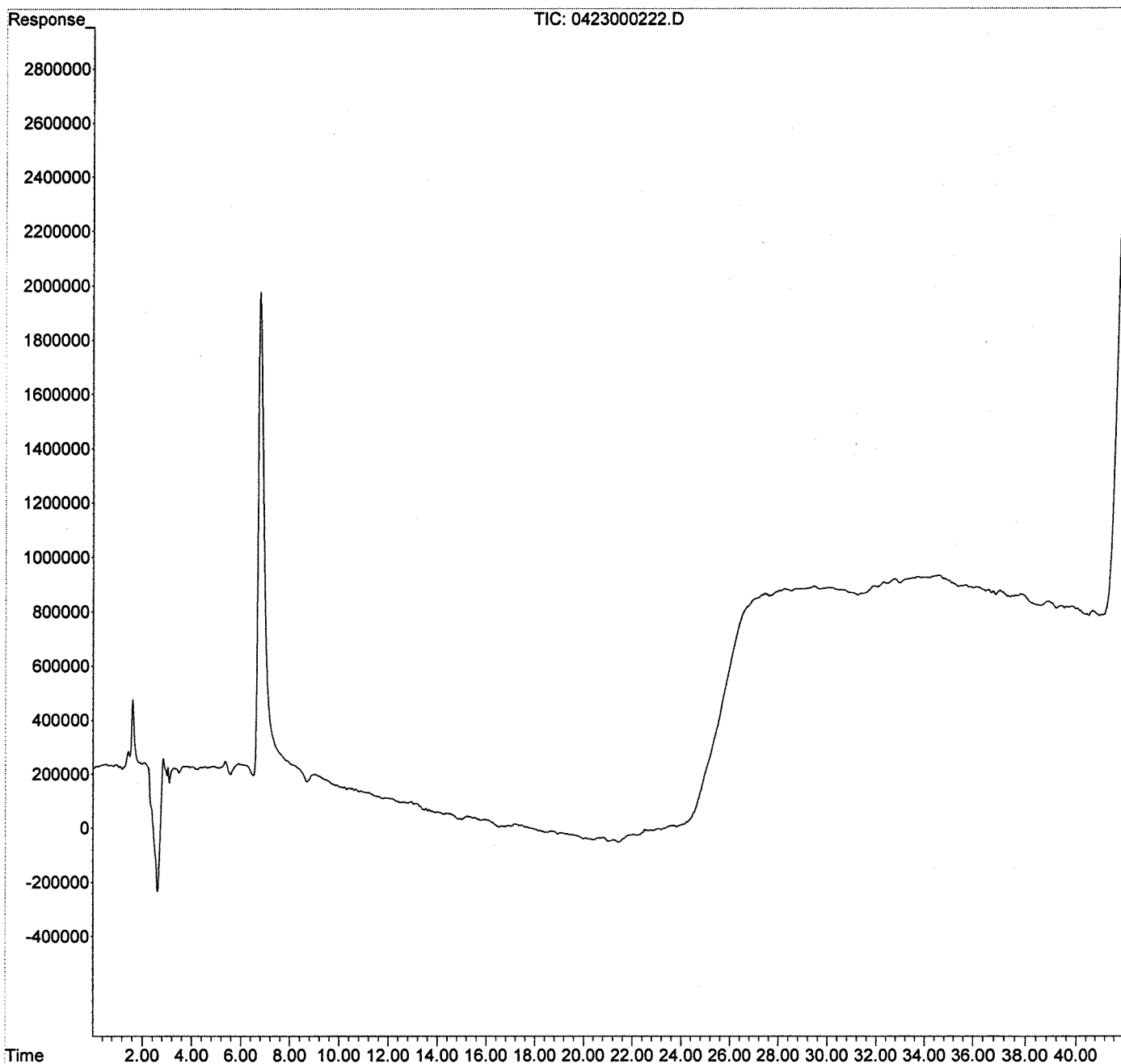
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\LC10\Data\042315X\210\  
Data File : 0423000222.D  
Signal(s) : DAD1B.ch  
Acq On : 24-Apr-2015, 19:55:16  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 12 09:06:06 2015  
Quant Method : J:\LC10\Method\031615\_8330B@210.M  
Quant Title : CAL13892  
QLast Update : Tue May 12 09:05:16 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Synergi Hydro 4.6x250mm  
Signal Info : C18 | DAD @ 210nm





Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000102.D  
 Signal(s) : DAD1A.ch  
 Acq On : 21-Apr-2015, 16:55:07  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 08:56:31 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
11) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
<b>Target Compounds</b>				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T Nitrobenzene	0.000	0	N.D.	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	0.000	0	N.D.	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window

(m)=manual int.

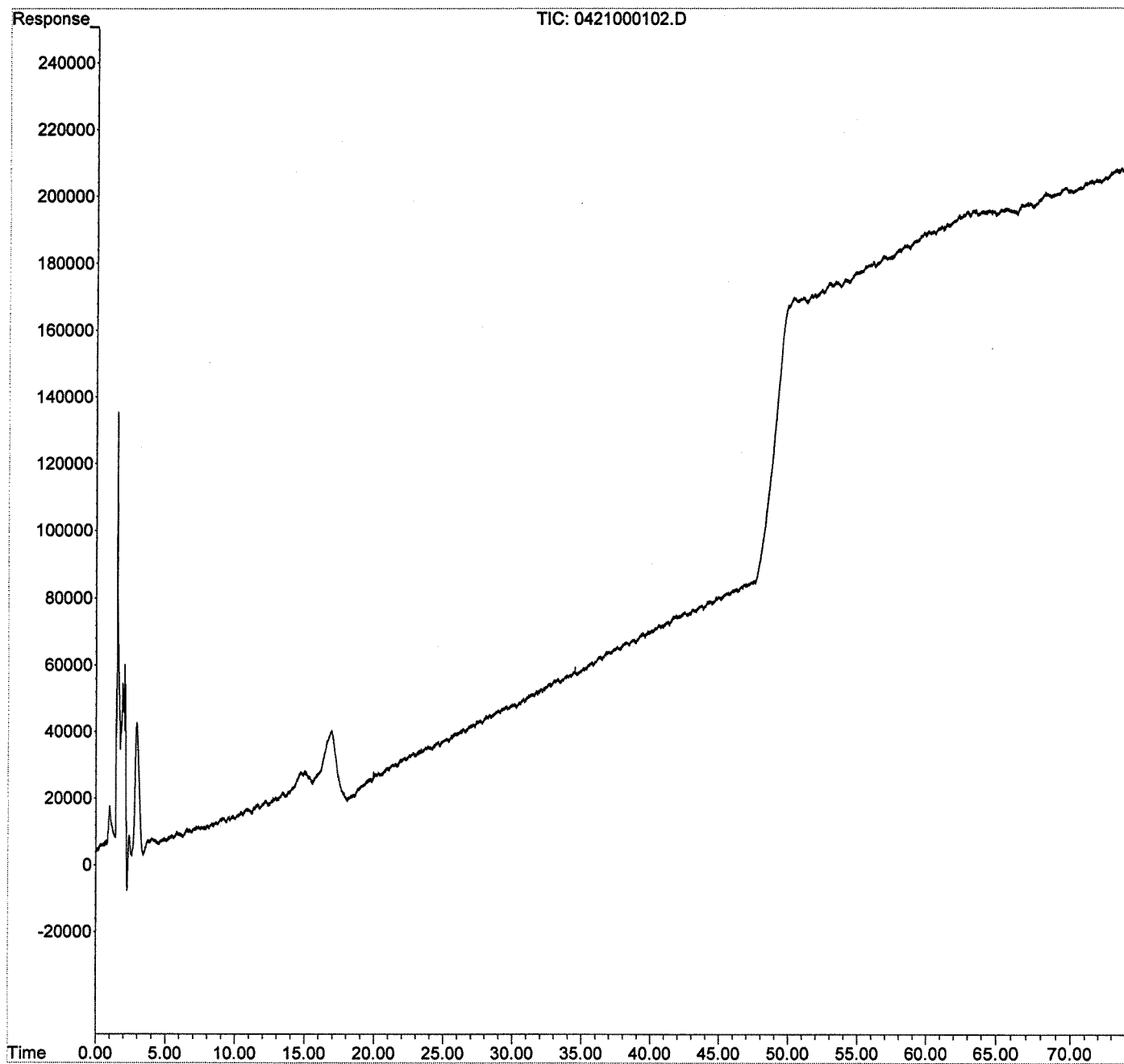
*See 5/15/15*

3015 ✓

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000102.D  
Signal(s) : DAD1A.ch  
Acq On : 21-Apr-2015, 16:55:07  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:31 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000103.D  
 Signal(s) : DAD1A.ch  
 Acq On : 21-Apr-2015, 18:31:23  
 Operator : CFS  
 Sample : 14-OLC-01-58J 1PPM  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 08:56:33 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:56:20 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

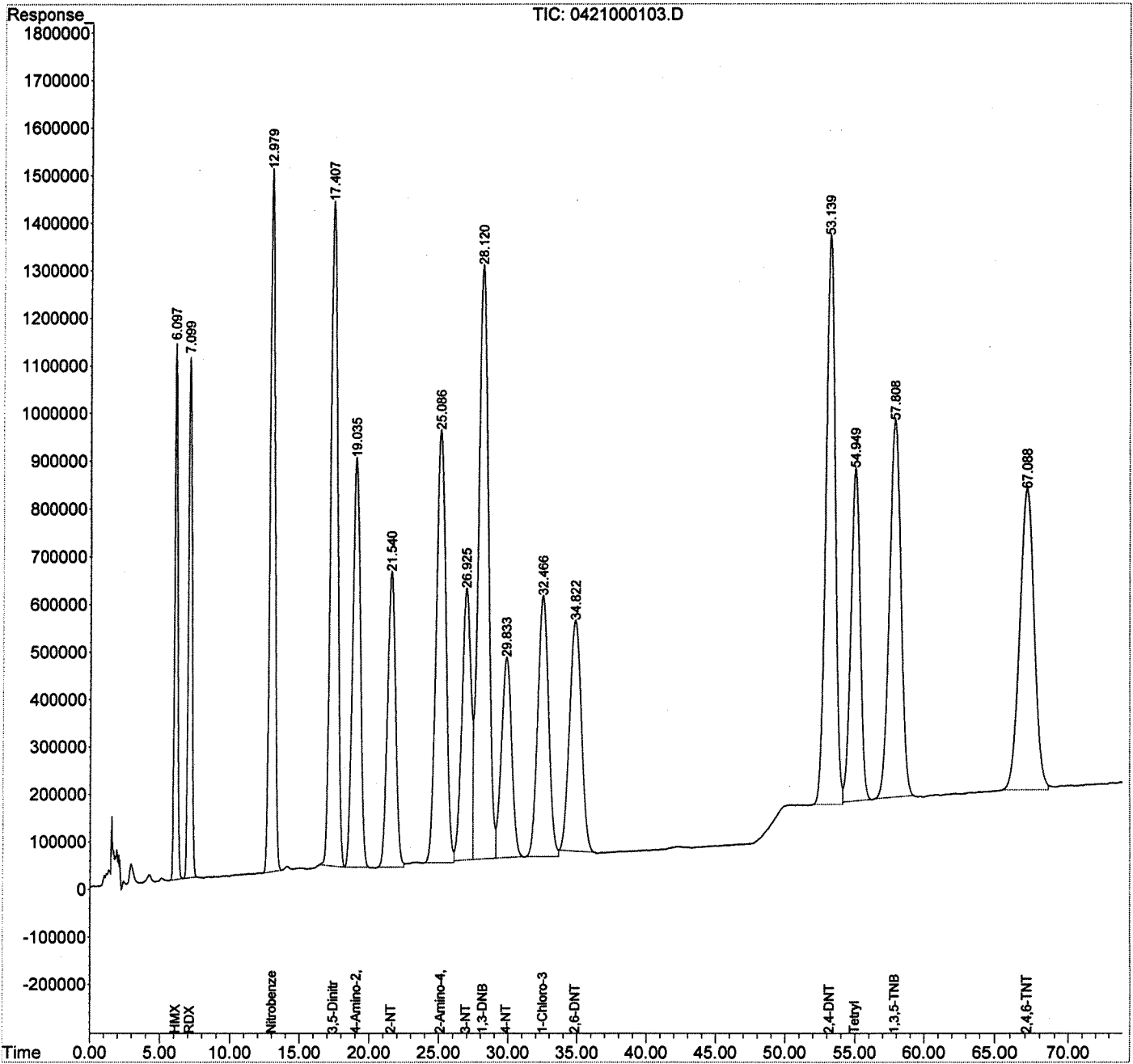
Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
11) S 1-Chloro-3-Nitrobenzene	32.466	30103053	1091.653 ug/L
Target Compounds			
1) T HMX	6.097	17190541	1059.003 ug/L
2) T RDX	7.099	20334149	1035.202 ug/L
3) T Nitrobenzene	12.979	37912409	1012.602 ug/L
4) T 3,5-Dinitroaniline	17.407	49224624	935.044 ug/L
5) T 4-Amino-2,6-DNT	19.035	32970979	1073.492 ug/L
6) T 2-NT	21.540	24645236	1011.408 ug/L
7) T 2-Amino-4,6-DNT	25.086	43815250	1056.730 ug/L
8) T 3-NT	26.925	26116091	1003.935 ug/L
9) T 1,3-DNB	28.120	63810744	1065.182 ug/L
10) T 4-NT	29.833	22035410	1031.188 ug/L
12) T 2,6-DNT	34.822	28777875	980.665 ug/L
13) T 2,4-DNT	53.139	55368779	978.447 ug/L
14) T Tetryl	54.949	32546068	919.684 ug/L
15) T 1,3,5-TNB	57.808	46166809	993.497 ug/L
16) T 2,4,6-TNT	67.088	43401350	1035.786 ug/L
-----			

(f)=RT Delta > 1/2 Window *TV=1000ppb ± 20%* (m)=manual int.  
*lec 5/5/15*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000103.D  
Signal(s) : DAD1A.ch  
Acq On : 21-Apr-2015, 18:31:23  
Operator : CFS  
Sample : 14-OLC-01-58J 1PPM  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:56:33 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:56:20 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000115.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 13:46:40  
 Operator : CFS  
 Sample : 14-OLC-01-58J 1PPM  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 08:58:00 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:57:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
-----				
System Monitoring Compounds				
11) S 1-Chloro-3-Nitrobenzene	32.411	30653089	1111.599	ug/L
Target Compounds				
1) T HMX	6.064	17379946	1070.671	ug/L
2) T RDX	7.063	20613652	1049.431	ug/L
3) T Nitrobenzene	12.932	38207294	1020.478	ug/L
4) T 3,5-Dinitroaniline	17.250	50159426	953.418	ug/L
5) T 4-Amino-2,6-DNT	18.897	33437593	1088.684	ug/L
6) T 2-NT	21.463	24536898	1006.962	ug/L
7) T 2-Amino-4,6-DNT	24.891	44354236	1069.729	ug/L
8) T 3-NT	26.851	26095900	1003.159	ug/L
9) T 1,3-DNB	28.017	64939436	1084.023	ug/L
10) T 4-NT	29.720	22367107	1046.711	ug/L
12) T 2,6-DNT	34.734	29985208	1021.807	ug/L
13) T 2,4-DNT	53.047	56020040	989.969	ug/L
14) T Tetryl	54.847	22558726	637.270	ug/L
15) T 1,3,5-TNB	57.748	45916839	988.118	ug/L
16) T 2,4,6-TNT	66.985	43152461	1029.847	ug/L

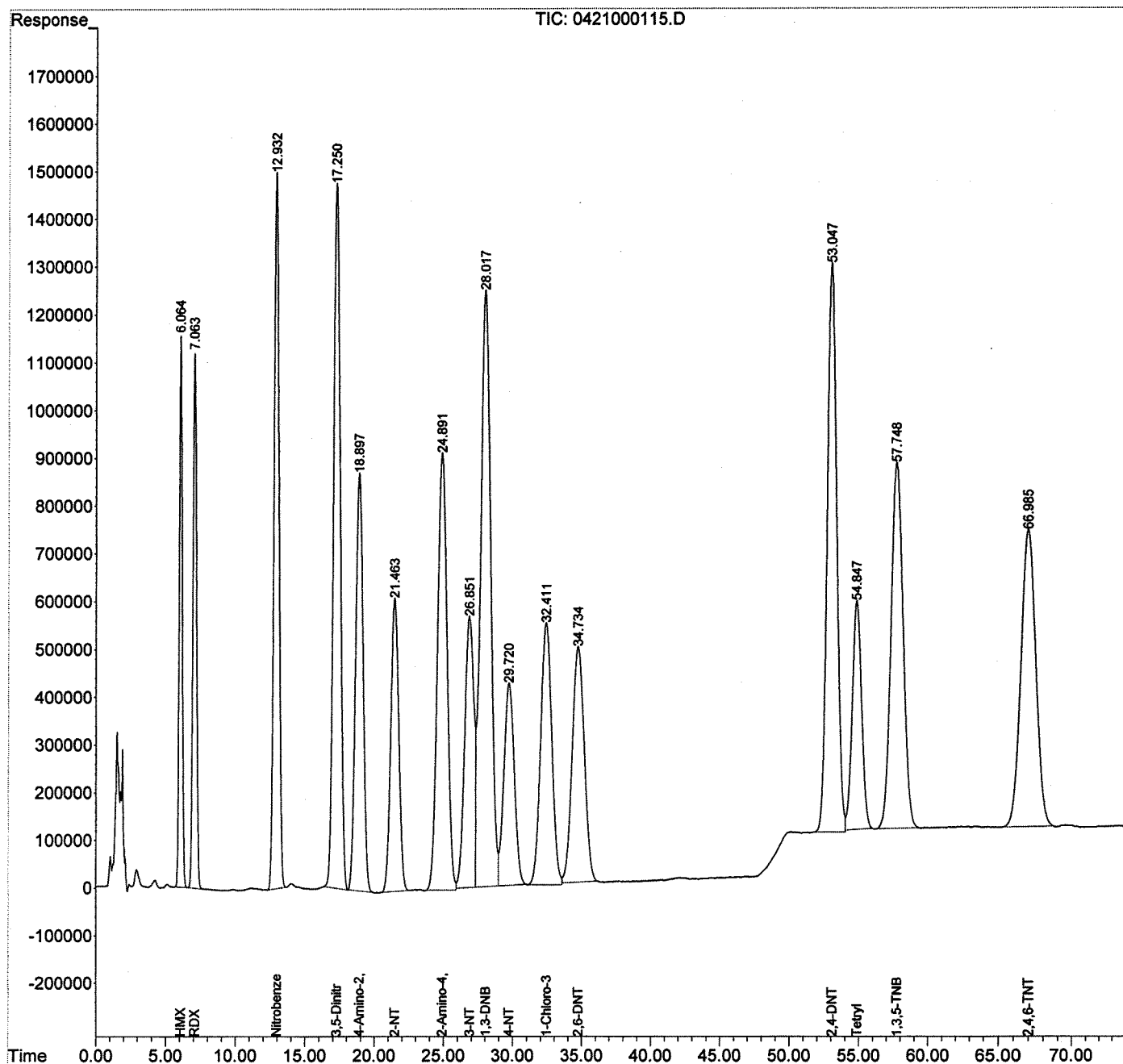
(f)=RT Delta > 1/2 Window *T<sub>v</sub> = 1000ppb ± 20%* (m)=manual int.

*lu 5/5/15*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000115.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 13:46:40  
Operator : CFS  
Sample : 14-OLC-01-58J 1PPM  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:00 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000116.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 15:22:59  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 08:58:04 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:57:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax Sum 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
11) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T Nitrobenzene	0.000	0	N.D.	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	0.000	0	N.D.	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window

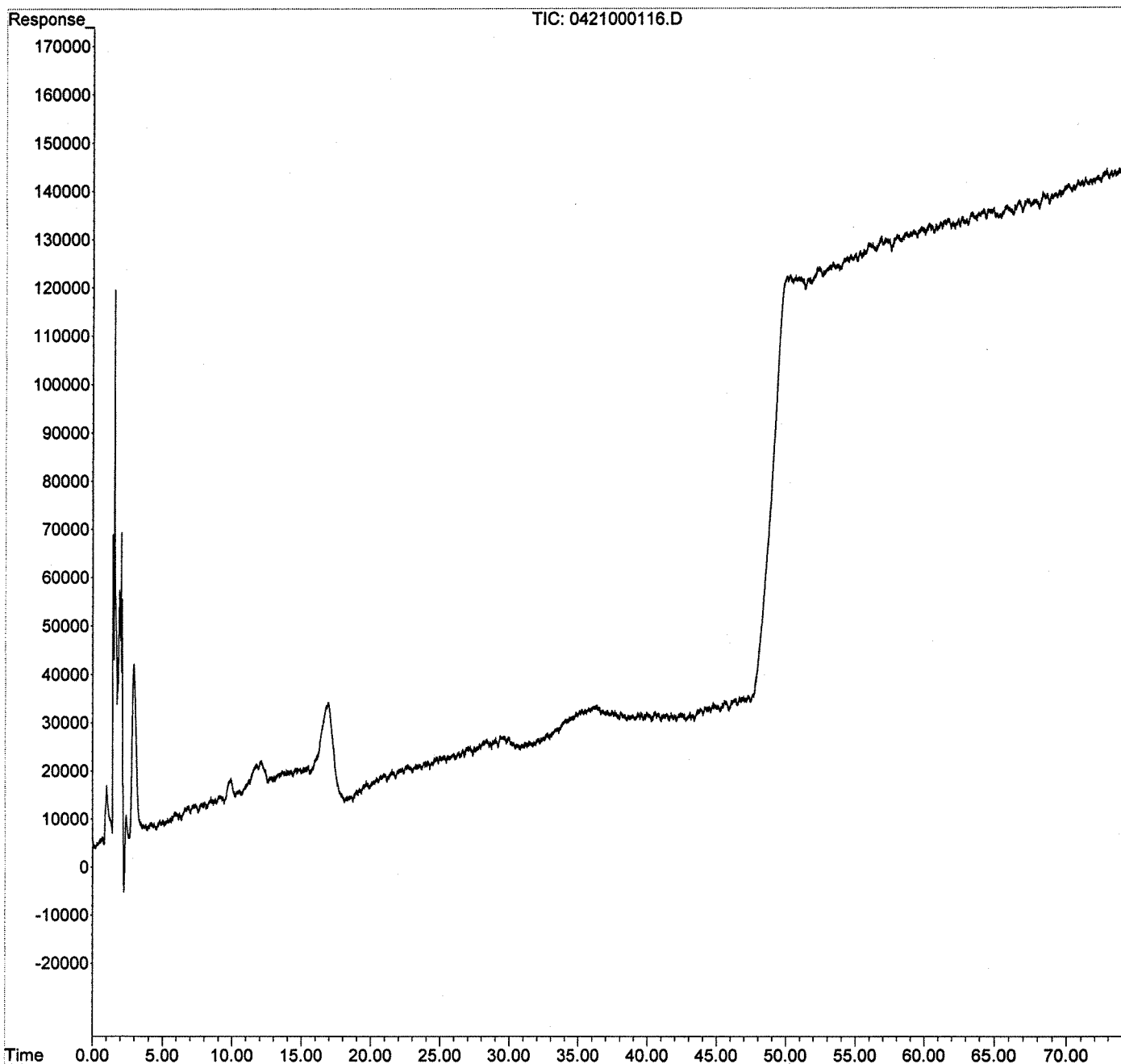
(m)=manual int.

*Lu 5/15/15*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000116.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 15:22:59  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:04 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm





Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000120.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 21:48:04  
Operator : CFS  
Sample : 14-OLC-01-58J 1PPM  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:15 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax Sum 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
11) S 1-Chloro-3-Nitrobenzene	32.417	30217336	1095.797 ug/L
Target Compounds			
1) T HMX	6.066	17475043	1076.529 ug/L
2) T RDX	7.066	20705245	1054.094 ug/L
3) T Nitrobenzene	12.954	38232511	1021.152 ug/L
4) T 3,5-Dinitroaniline	17.288	50429382	958.724 ug/L
5) T 4-Amino-2,6-DNT	18.947	33682932	1096.672 ug/L
6) T 2-NT	21.517	24534769	1006.875 ug/L
7) T 2-Amino-4,6-DNT	24.915	44584549	1075.284 ug/L
8) T 3-NT	26.892	26130354	1004.483 ug/L
9) T 1,3-DNB	28.032	65407430	1091.835 ug/L
10) T 4-NT	29.748	22501025	1052.978 ug/L
12) T 2,6-DNT	34.752	29782172	1014.888 ug/L
13) T 2,4-DNT	53.026	56155590	992.367 ug/L
14) T Tetryl	54.822	18588683	525.056 ug/L <i>NI</i>
15) T 1,3,5-TNB	57.728	45392153	976.827 ug/L
16) T 2,4,6-TNT	66.948	43960243	1049.124 ug/L

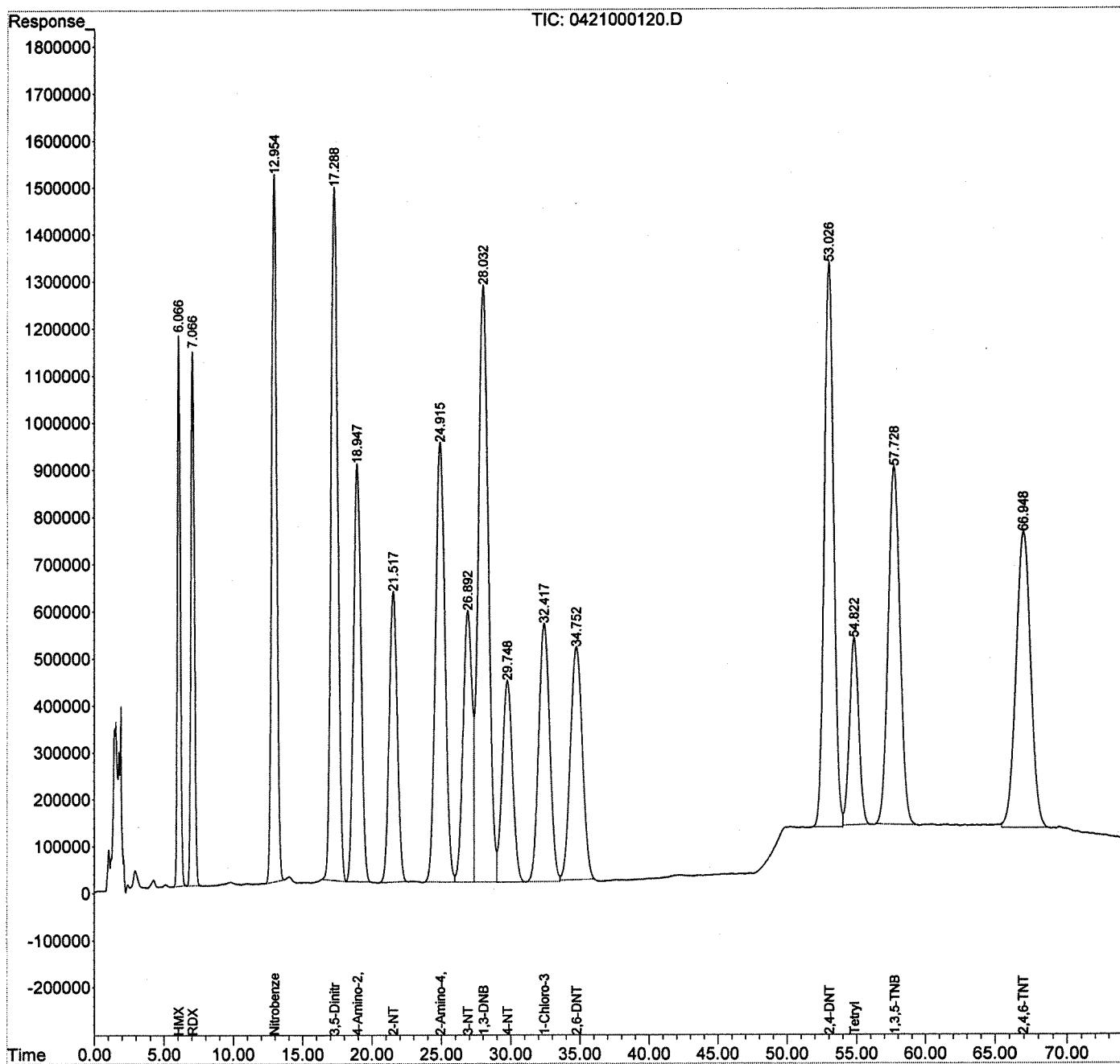
(f)=RT Delta > 1/2 Window *TV= 1000 ppb I 20%* (m)=manual int.

*Dr 5/5/15*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000120.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 21:48:04  
Operator : CFS  
Sample : 14-OLC-01-58J 1PPM  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:15 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



Data Path : J:\LC08\Data\042115XL\254\  
 Data File : 0421000121.D  
 Signal(s) : DAD1A.ch  
 Acq On : 22-Apr-2015, 23:24:22  
 Operator : CFS  
 Sample : IB  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Integration File: RTEINT.P  
 Quant Time: May 05 08:58:18 2015  
 Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
 Quant Title : CAL13504  
 QLast Update : Tue May 05 08:57:47 2015  
 Response via : Initial Calibration  
 Integrator: RTE

Volume Inj. : 100 uL  
 Signal Phase : Ultra Aromax 5um 150x4.6mm  
 Signal Info : Ultra Aromax | DAD @ 254nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
11) S 1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds				
1) T HMX	0.000	0	N.D.	ug/L
2) T RDX	0.000	0	N.D.	ug/L
3) T Nitrobenzene	0.000	0	N.D.	ug/L
4) T 3,5-Dinitroaniline	0.000	0	N.D.	ug/L
5) T 4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
6) T 2-NT	0.000	0	N.D.	ug/L
7) T 2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
8) T 3-NT	0.000	0	N.D.	ug/L
9) T 1,3-DNB	0.000	0	N.D.	ug/L
10) T 4-NT	0.000	0	N.D.	ug/L
12) T 2,6-DNT	0.000	0	N.D.	ug/L
13) T 2,4-DNT	0.000	0	N.D.	ug/L
14) T Tetryl	0.000	0	N.D.	ug/L
15) T 1,3,5-TNB	0.000	0	N.D.	ug/L
16) T 2,4,6-TNT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window

(m)=manual int.

*lu 5/5/15*

Data Path : J:\LC08\Data\042115XL\254\  
Data File : 0421000121.D  
Signal(s) : DAD1A.ch  
Acq On : 22-Apr-2015, 23:24:22  
Operator : CFS  
Sample : IB  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Integration File: RTEINT.P  
Quant Time: May 05 08:58:18 2015  
Quant Method : J:\LC08\Method\081914\_8330BXC@254.M  
Quant Title : CAL13504  
QLast Update : Tue May 05 08:57:47 2015  
Response via : Initial Calibration  
Integrator: RTE

Volume Inj. : 100 uL  
Signal Phase : Ultra Aromax 5um 150x4.6mm  
Signal Info : Ultra Aromax | DAD @ 254nm



# Preparation Information

<b>Group ID:</b> KWG1503332	<b>Prep Method:</b> METHOD	<b>Prep Date:</b> 04/20/15 10:00
<b>Department:</b> Organic LC		

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
1503815-001	AIA15041398IAMW01	8330B NitramAroEsters	WATER	1030ml	4.0ml
1503815-002	AIA15041398IAMW02	8330B NitramAroEsters	WATER	1040ml	4.0ml
1503815-003	AIA15041398IAMW03	8330B NitramAroEsters	WATER	1030ml	4.0ml
1503815-004	AIA15041398IAMW13	8330B NitramAroEsters	WATER	1040ml	4.0ml
1503815-005	AIA15041398IAMW04	8330B NitramAroEsters	WATER	1040ml	4.0ml
1503815-006	AIA15041398IAMW05	8330B NitramAroEsters	WATER	1040ml	4.0ml
1503815-007	AIA150414AIASP01	8330B NitramAroEsters	WATER	1020ml	4.0ml
1503815-008	AIA150413AIASP02	8330B NitramAroEsters	WATER	1040ml	4.0ml
1503815-009	AIA150413AIASP04	8330B NitramAroEsters	WATER	1040ml	4.0ml
1503815-010	AIA150413AIASP05	8330B NitramAroEsters	WATER	1040ml	4.0ml
1503815-011	AIA150414FHDS	8330B NitramAroEsters	WATER	1040ml	4.0ml
WG1503332-1	Matrix Spike	8330B NitramAroEsters	WATER	1040ml	4.0ml
WG1503332-2	Duplicate Matrix Spike	8330B NitramAroEsters	WATER	1040ml	4.0ml
WG1503332-3	Lab Control Sample	8330B NitramAroEsters	WATER	1000ml	4.0ml
WG1503332-4	Method Blank	8330B NitramAroEsters	WATER	1000ml	4.0ml

Lab Code	Parent Lab Code	Comments
KWG1503332-1	K1503815-011	
KWG1503332-2	K1503815-011	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1503815-001	1427784	14-OLC-02-4L	20uL			RHolden
K1503815-002	1427785	14-OLC-02-4L	20uL			RHolden
K1503815-003	1427786	14-OLC-02-4L	20uL			RHolden
K1503815-004	1427787	14-OLC-02-4L	20uL			RHolden
K1503815-005	1427788	14-OLC-02-4L	20uL			RHolden
K1503815-006	1427789	14-OLC-02-4L	20uL			RHolden

Comments: \_\_\_\_\_

Started By: CSchroed Assisted By: NIA Training: Yes  No

Completed By: CSchroed Assisted By: NIA Training: Yes  No

Reviewed By: [Signature] Date: 5.12.15 Storage: TOP Shelf

Chain of Custody

Relinquished By: <u>[Signature]</u>	Date: <u>4/21/15</u>	Extracts Examined Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received By: <u>[Signature]</u>	Date: <u>4/21/15</u>	

Group ID: KWG1503332      Prep Method: METHOD      Prep Date: 04/20/15 10:00  
 Department: Organic LC

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1503815-007	1427790	14-OLC-02-4L	20uL			RHolden
K1503815-008	1427791	14-OLC-02-4L	20uL			RHolden
K1503815-009	1427792	14-OLC-02-4L	20uL			RHolden
K1503815-010	1427793	14-OLC-02-4L	20uL			RHolden
K1503815-011	1427794	14-OLC-02-4L	20uL			RHolden
KWG1503332-1	1427795	14-OLC-02-4L	20uL	14-OLC-01-10L	8uL	RHolden
KWG1503332-2	1427796	14-OLC-02-4L	20uL	14-OLC-01-10L	8uL	RHolden
KWG1503332-3	1427797	14-OLC-02-4L	20uL	14-OLC-01-10L	8uL	RHolden
KWG1503332-4	1427798	14-OLC-02-4L	20uL			RHolden

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Started By: CSchroed      Assisted By: N/A      Training: Yes  No   
 Completed By: CSchroed      Assisted By: N/A      Yes  No   
 Reviewed By: [Signature]      Date: 5-12-15      Storage: Top Shelf

Chain of Custody

Relinquished By: <u>[Signature]</u>	Date: <u>4/21/15</u>	Extracts Examined
Received By: <u>[Signature]</u>	Date: <u>4/21/15</u>	Yes <input checked="" type="radio"/> No <input type="radio"/>

# Preparation Information

Group ID:	KWG1503332	Prep Method:	METHOD	Prep Date:	04/20/15 10:00
Department:	Organic LC				

#	Lab Code	Client ID	B#	✓	Product	Matrix	Amt. Ext. (mL)	pH	Int. Vol.	Final Vol. (mL)	Surr. Added	Spike Added
1	K1503815-001	AIA15041398IAMW01	.01	✓	8330B NitramAroEst	WATER	1030	N/A	N/A	4.0	20ul	N/A
2	K1503815-002	AIA15041398IAMW02	.01	✓	8330B NitramAroEst	WATER	1040					
3	K1503815-003	AIA15041398IAMW03	.01	✓	8330B NitramAroEst	WATER	1030					
4	K1503815-004	AIA15041398IAMW13	.02	✓	8330B NitramAroEst	WATER	1040					
5	K1503815-005	AIA15041398IAMW04	.01	✓	8330B NitramAroEst	WATER	1040					
6	K1503815-006	AIA15041398IAMW05	.02	✓	8330B NitramAroEst	WATER	1040					
7	K1503815-007	AIA150414AIASP01	.02	✓	8330B NitramAroEst	WATER	1020					
8	K1503815-008	AIA150413AIASP02 <i>red s in lab 1 sp01</i> <i>3x 04113015 1415</i>	.01	✓	8330B NitramAroEst	WATER	1040					
9	K1503815-009	AIA150413AIASP04	.02	✓	8330B NitramAroEst	WATER	1040					
10	K1503815-010	AIA150413AIASP05	.02	✓	8330B NitramAroEst	WATER	1040					
11	K1503815-011	AIA150414FHDS	.02	✓	8330B NitramAroEst	WATER	1040					↓
12	KWG1503332-1	Matrix Spike K1503815-011	.04	✓	8330B NitramAroEst	WATER	1040					8ul
13	KWG1503332-2	Duplicate Matrix Spike K1503815-011	.05	✓	8330B NitramAroEst	WATER	1040					↓
14	KWG1503332-3	Lab Control Sample			8330B NitramAroEst	WATER	1000					↓
15	KWG1503332-4	Method Blank			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	N/A

A yellow extract - sample contained sediment

Comments: \_\_\_\_\_ PHCE-019, PHCE-014  
prep: 233995

Surrogate ID: 14-04C-02-4L 1000ppm exp. 6/1/15

Spike ID: 14-04C-01-10L 1000ppm exp. 6/30/17

Witness: *P. Schrod* 4-20-15

Started By: CSchroed Assisted By: N/A

Completed By: CSchroed Assisted By: N/A

**Additional Prep Information for Nitroaromatics and Nitramines by  
HPLC-SOP: SOC-8330B (rev. 4) in water**

Service Request # K1503815

Work Group # KW01503332

**Solvents/Reagents used:**

ACN Lot #: 54296

CaCl<sub>2</sub> Lot #: PHCRE-101-816

Acetone Lot #: DL089

Hydrophobic DVB extraction cartridge Lot # 000007318

Initial SPE Start (Time/Date/Initial): 10:00/4/20/15/lu

Initial SPE Stop (Time/Date/Initial): 15:00/4/20/15/lu

Strata-X 33U 200mg/3mL cartridge Lot#: 8B-S100-FBT / 5300-191

SPE Start (Time/Date/Initial): 08:00/4/21/15/lu

SPE Stop (Time/Date/Initial): 12:00/4/21/15/lu

Completion (Time/Date/Initial) 15:00/4/21/15/lu

Vial Storage: Top Shelf Archived Extract Storage: Top Shelf

Comments/Observations: /

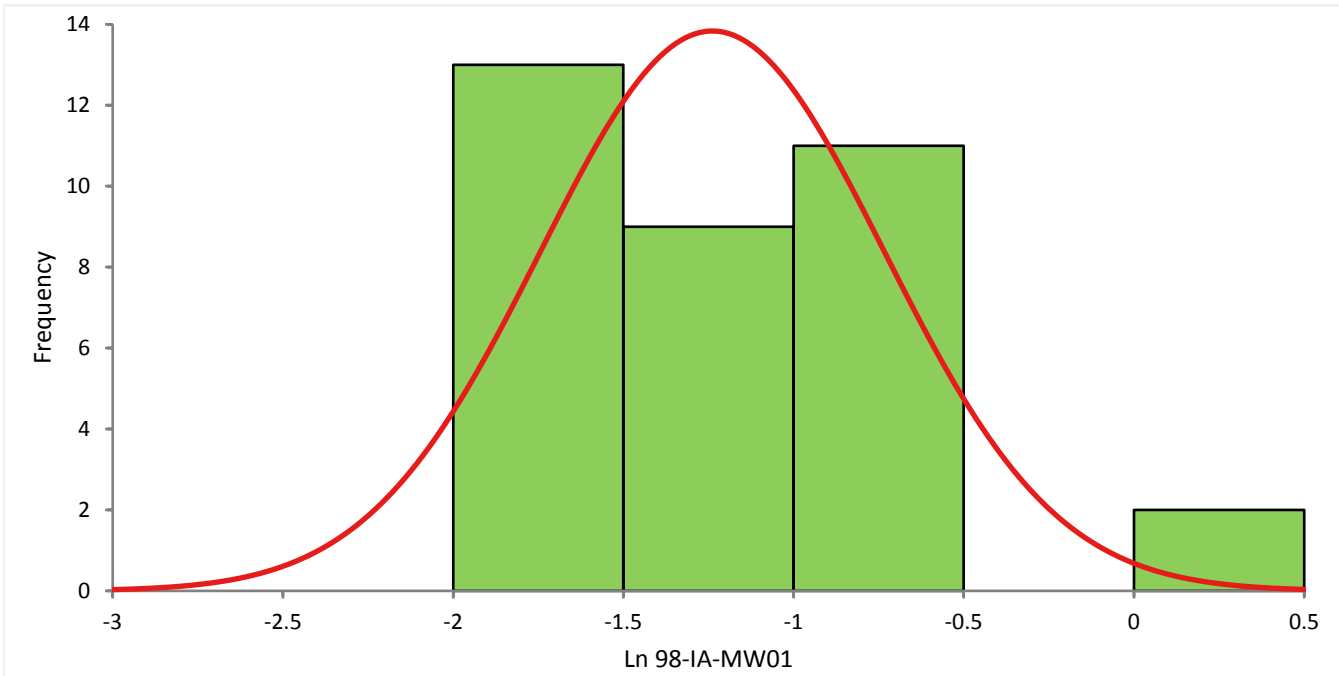
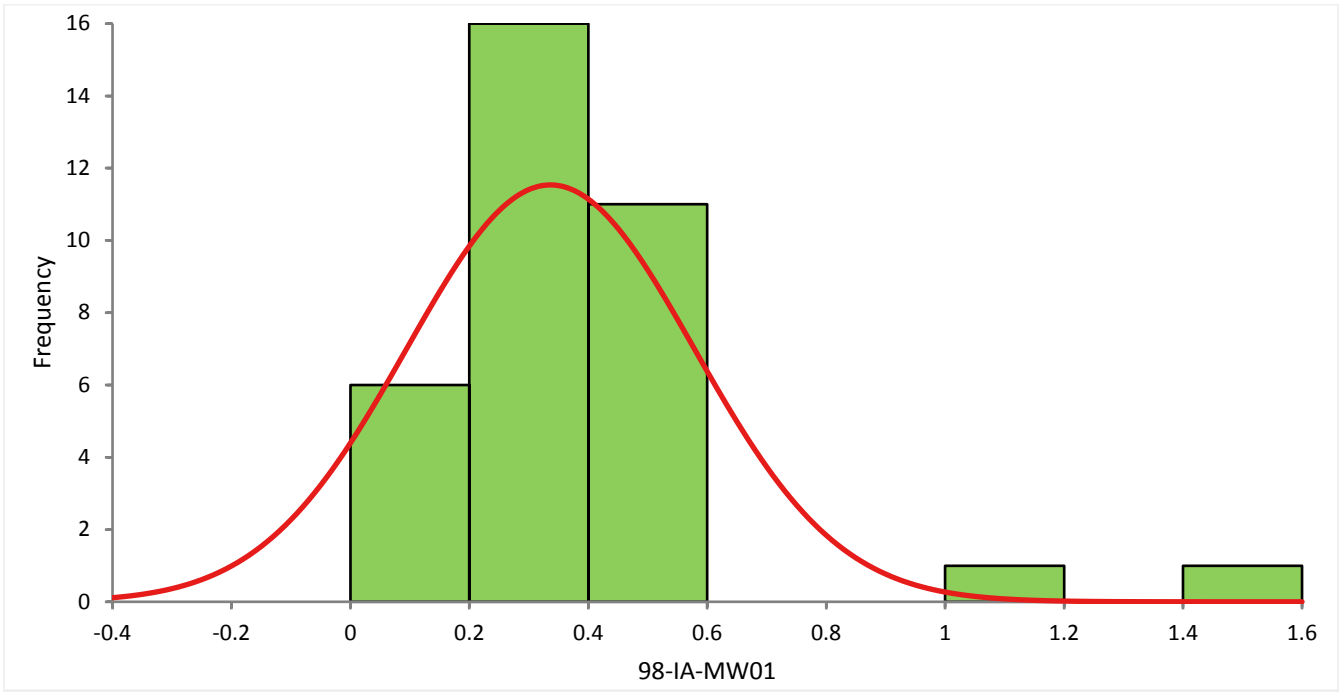
Bench Sheet Review Check List	
<input checked="" type="checkbox"/>	Hold Times Met (if no, Reason: _____)
<input checked="" type="checkbox"/>	Prep date, dept, method, product code correct in stealth
<input checked="" type="checkbox"/>	Spike Information correct
<input checked="" type="checkbox"/>	Weights/Volumes and units correct on raw and final bench sheets
<input checked="" type="checkbox"/>	Sample IDs have been checked—Bottle numbers appended if required
<input checked="" type="checkbox"/>	Names present for: Started by, Completed by, relinquished by, and witnessed by.
<input checked="" type="checkbox"/>	Training has been circled
<input checked="" type="checkbox"/>	Extract Storage recorded
<input checked="" type="checkbox"/>	Additional Prep Sheet completely filled out ( NA or line out Blanks)
<input checked="" type="checkbox"/>	All clean-ups have been noted on additional prep sheet
<input checked="" type="checkbox"/>	Signed service request with Form V, if applicable, has been attached



**APPENDIX B**  
**STATISTICAL GRAPHS**

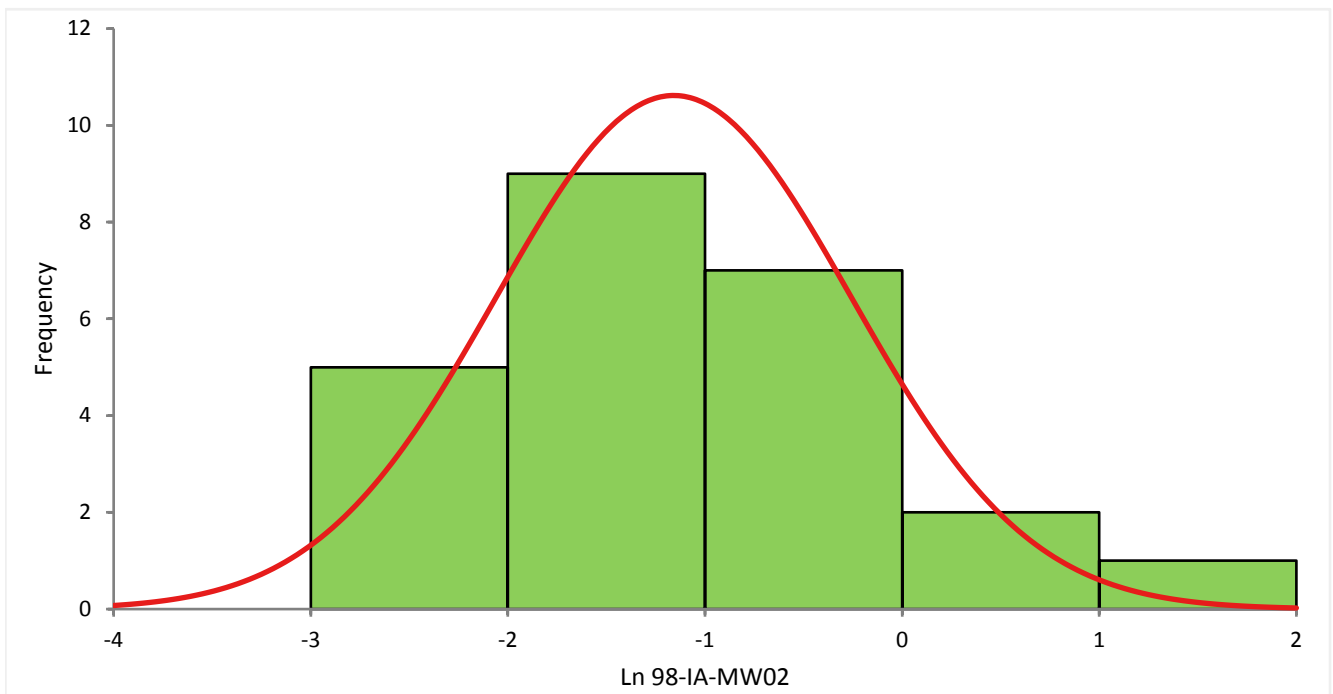
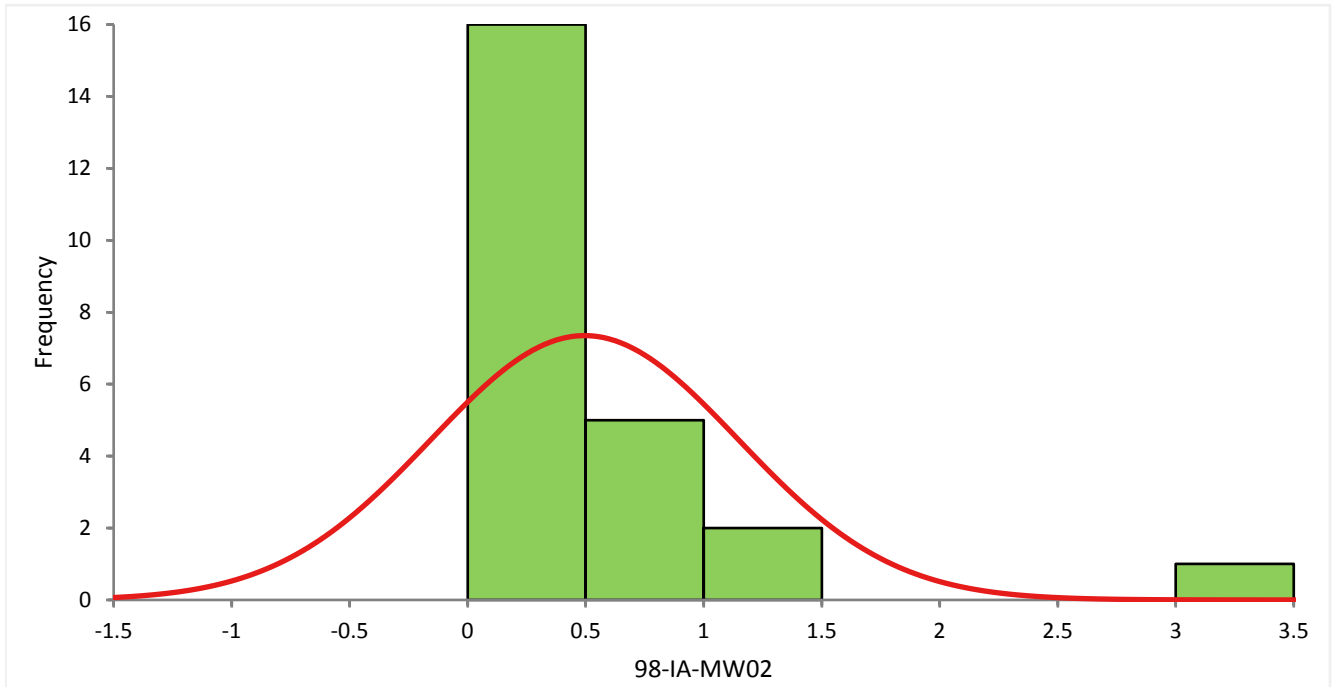
### Appendix B - Statistics Graphs

Distribution Histograms, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433



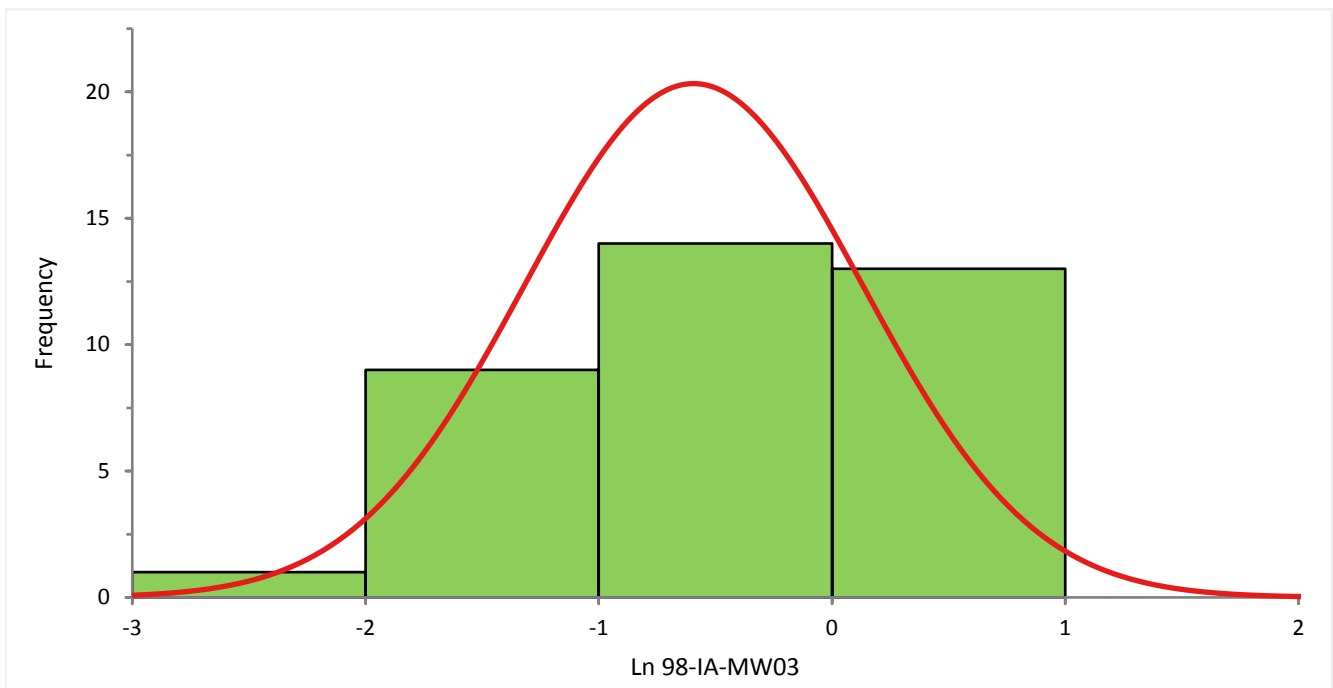
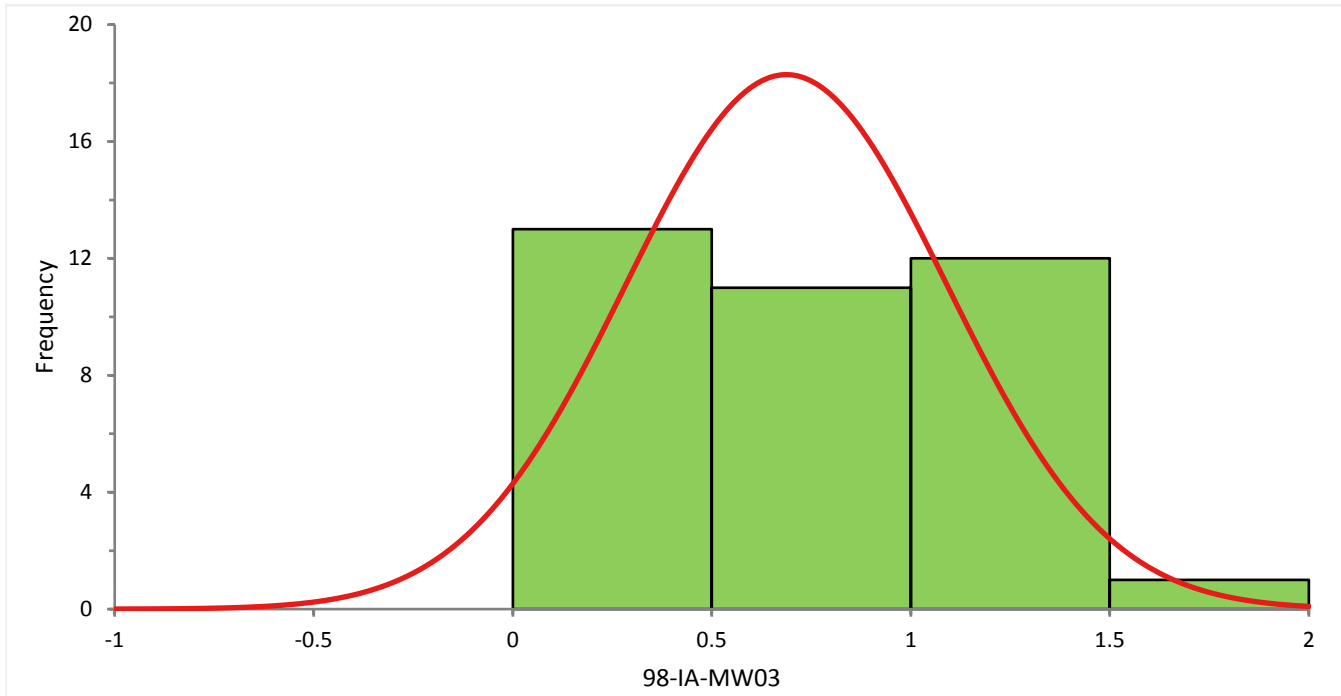
## Appendix B - Statistics Graphs

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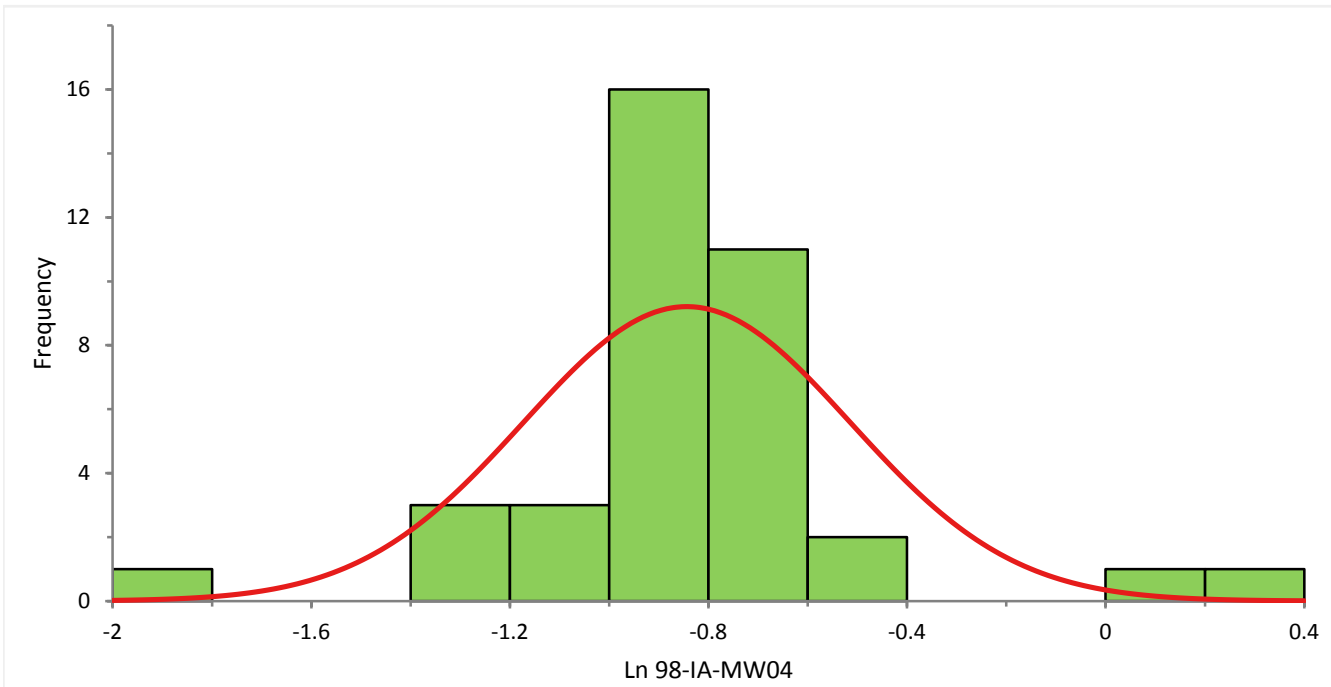
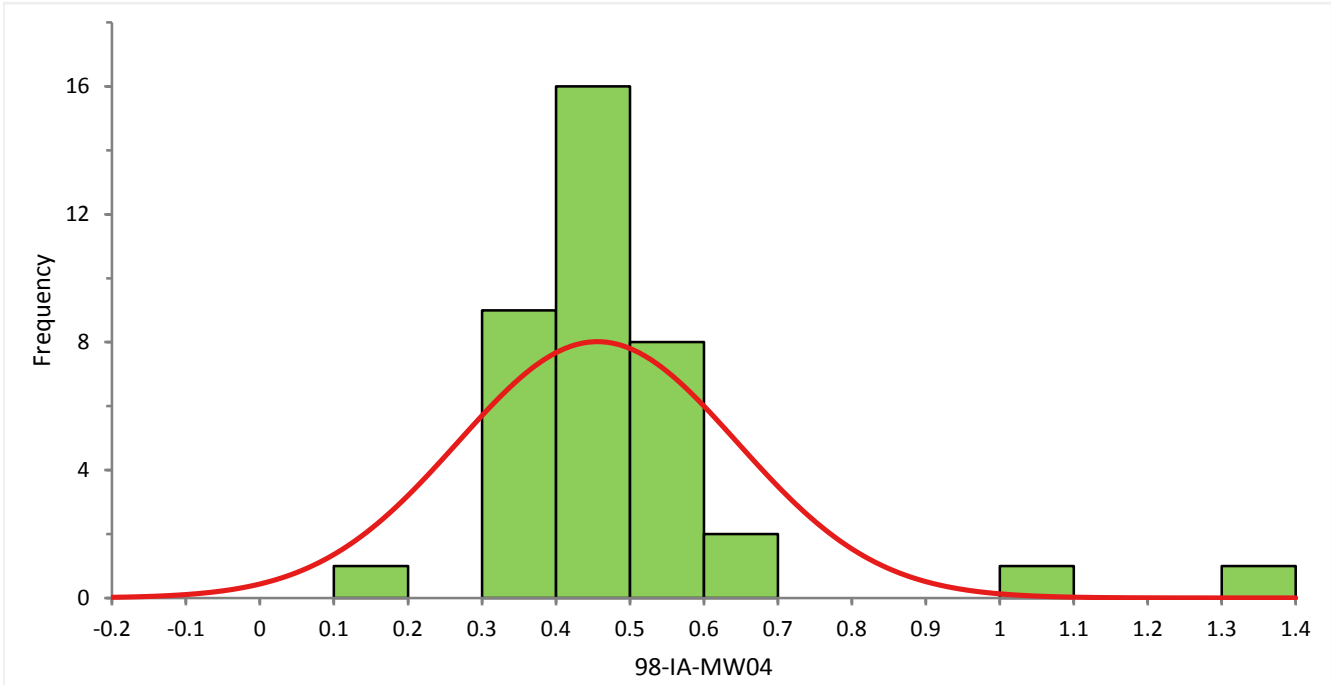
## Appendix B - Statistics Graphs

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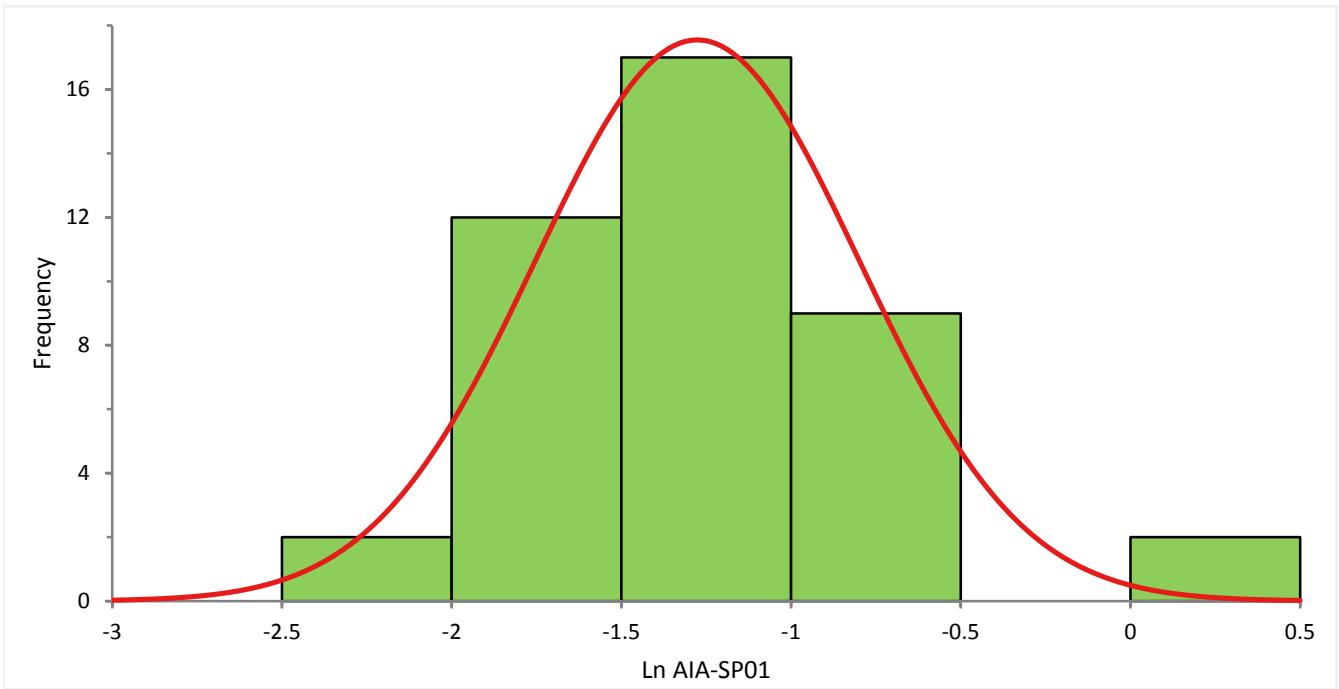
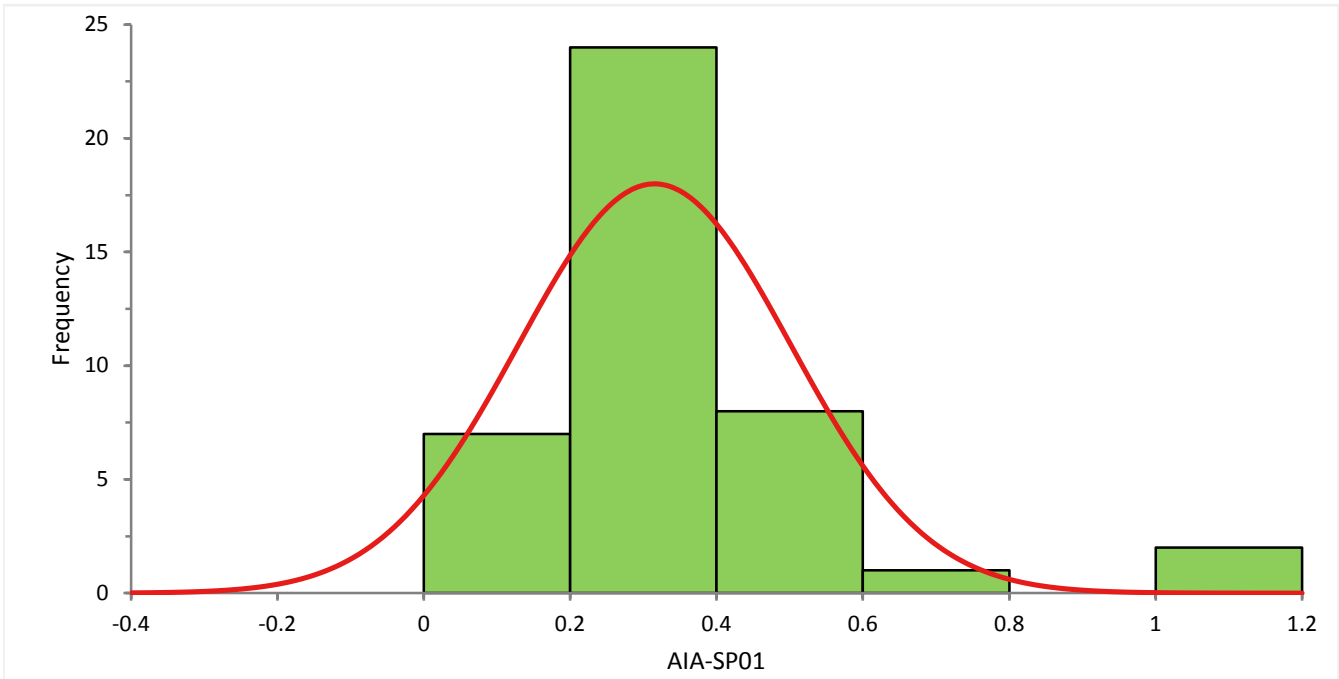
## Appendix B - Statistics Graphs

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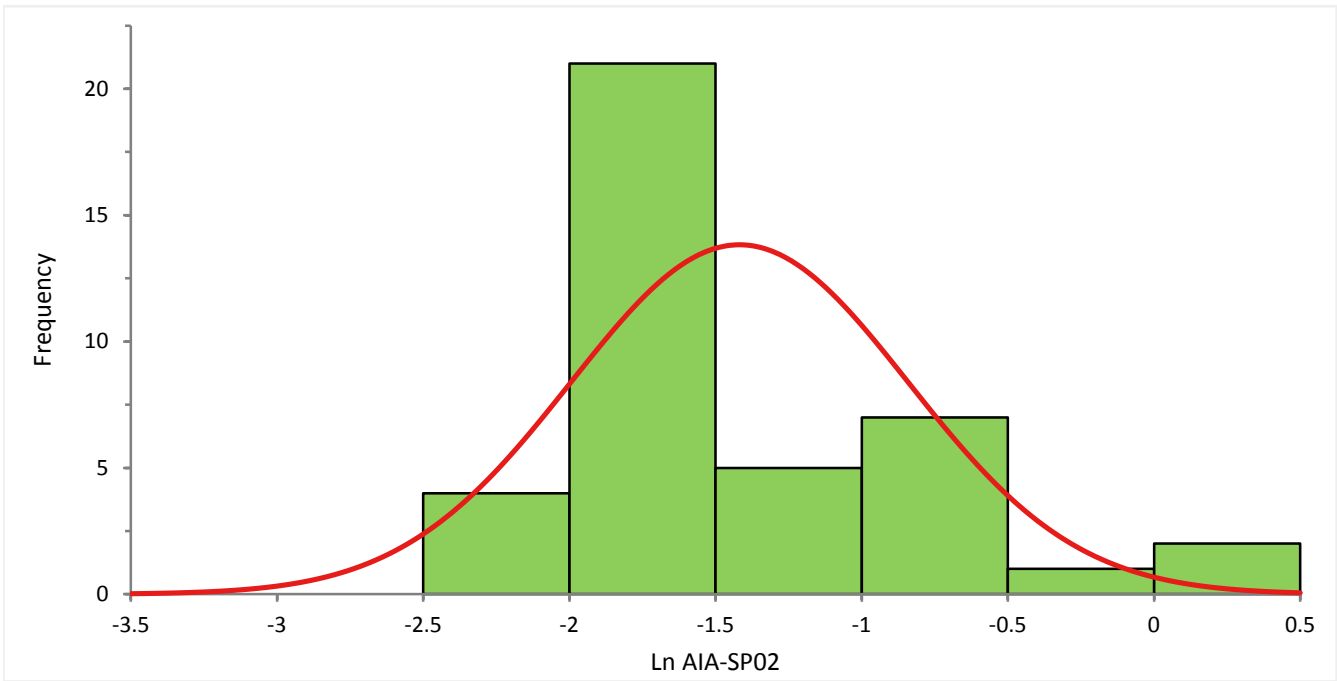
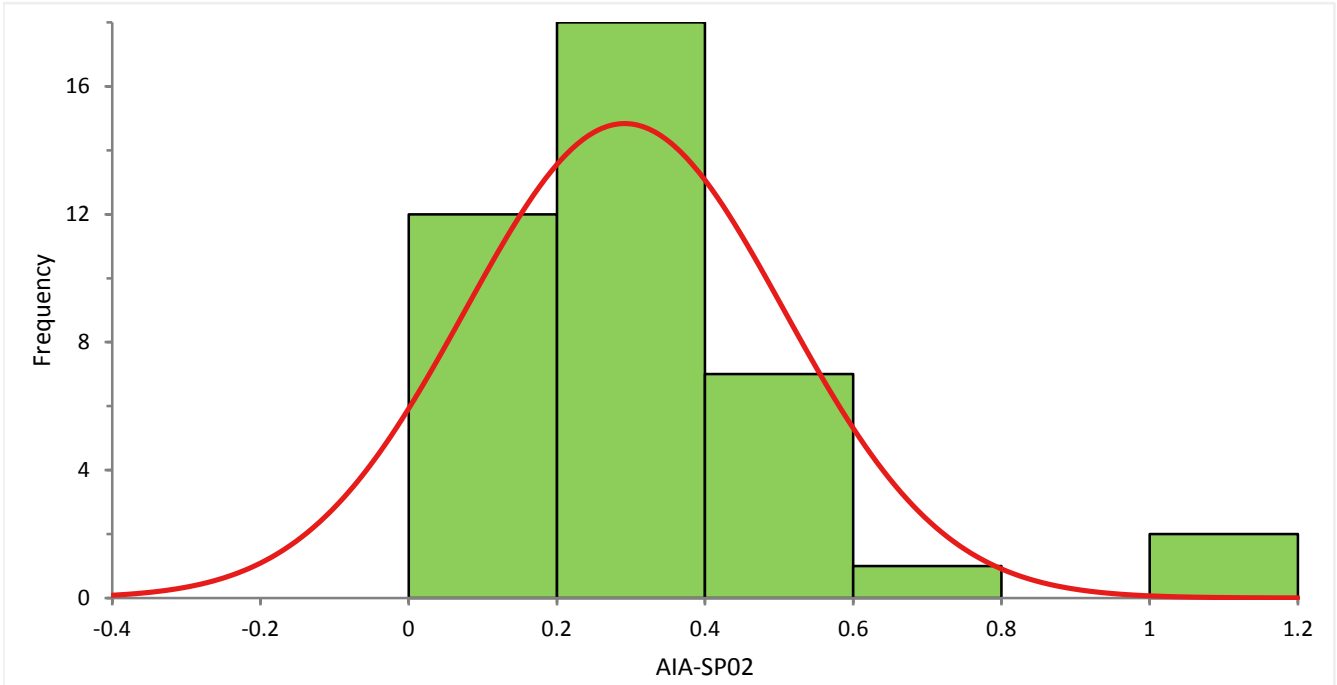
### Appendix B - Statistics Graphs

Distribution Histograms, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433



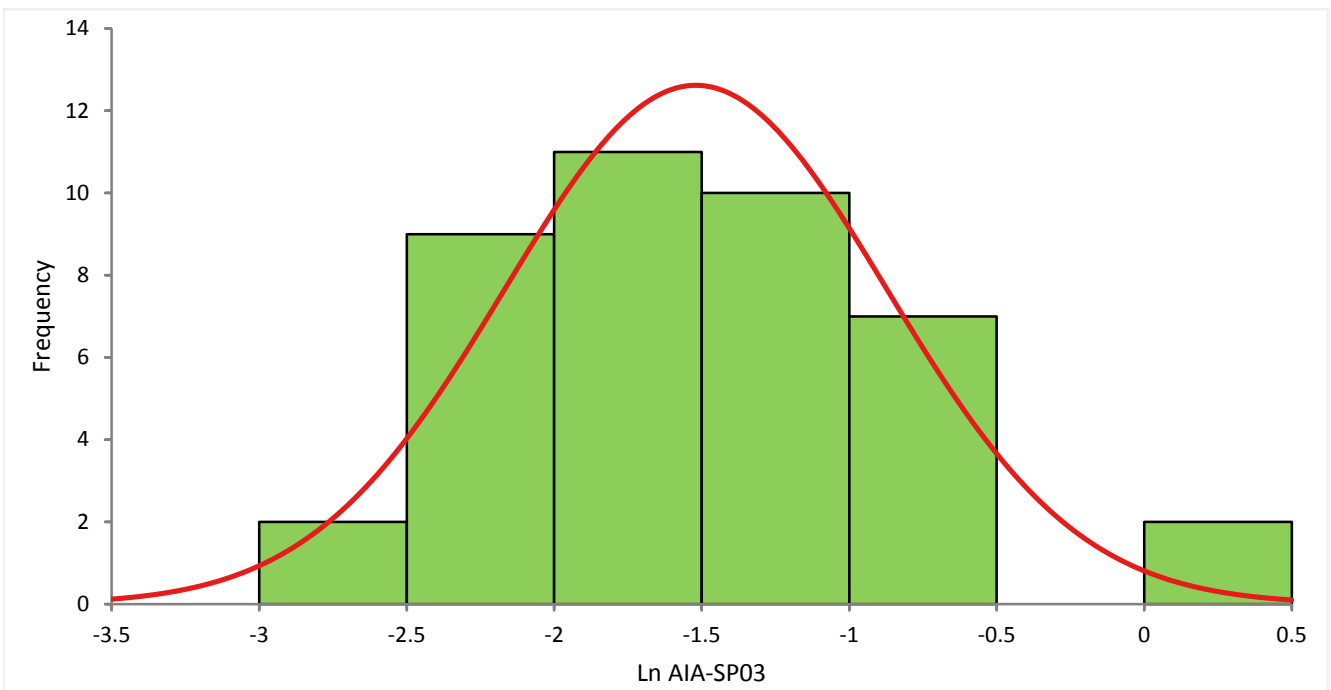
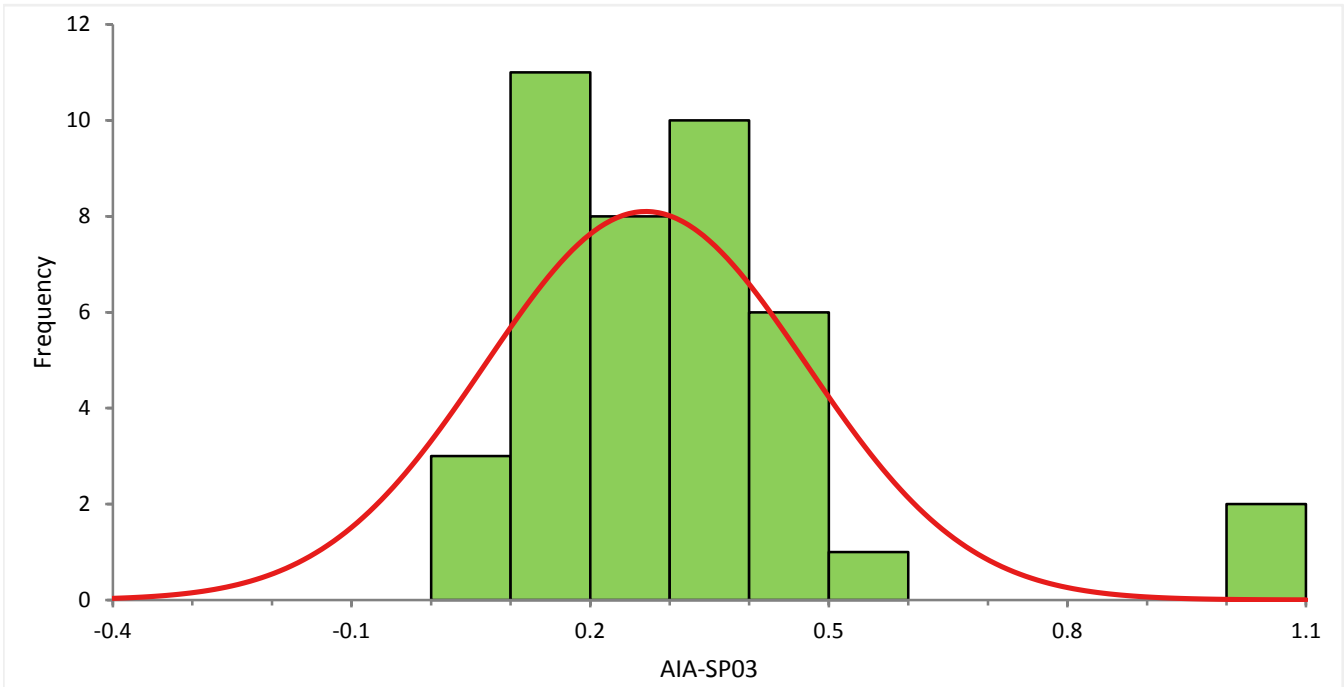
## Appendix B - Statistics Graphs

Distribution Histograms, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433



### Appendix B - Statistics Graphs

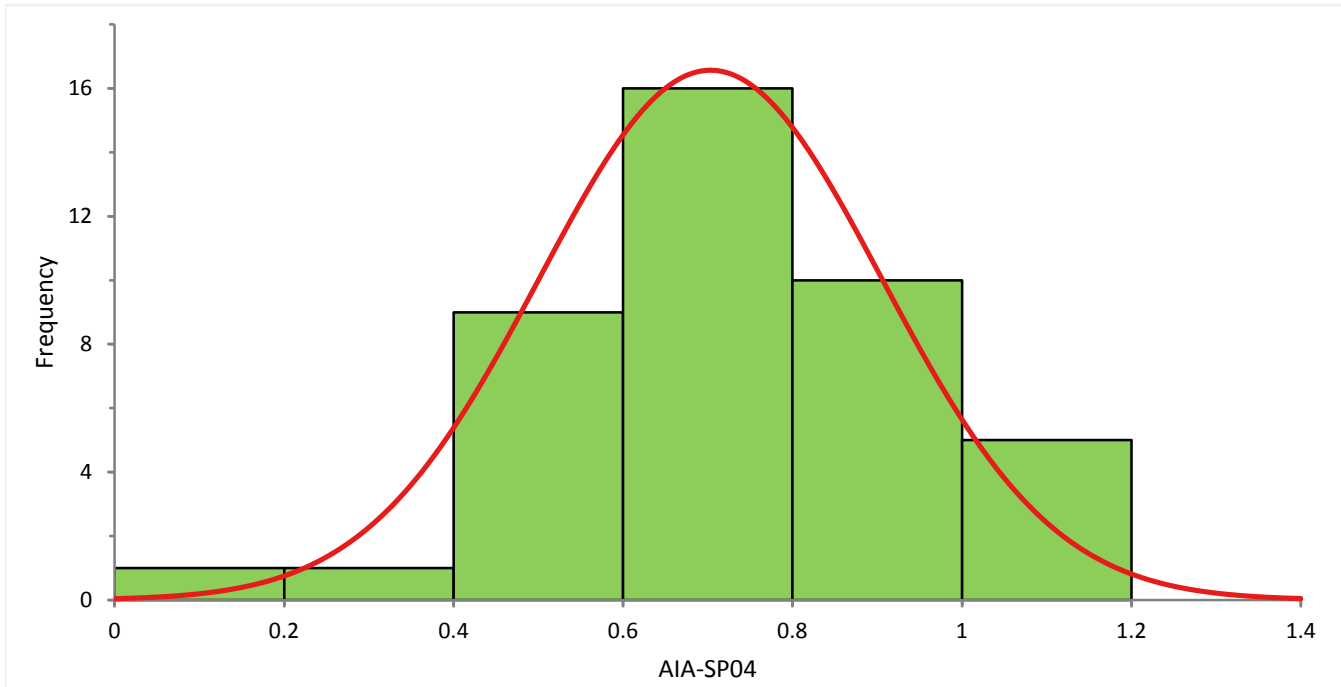
Distribution Histograms, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433





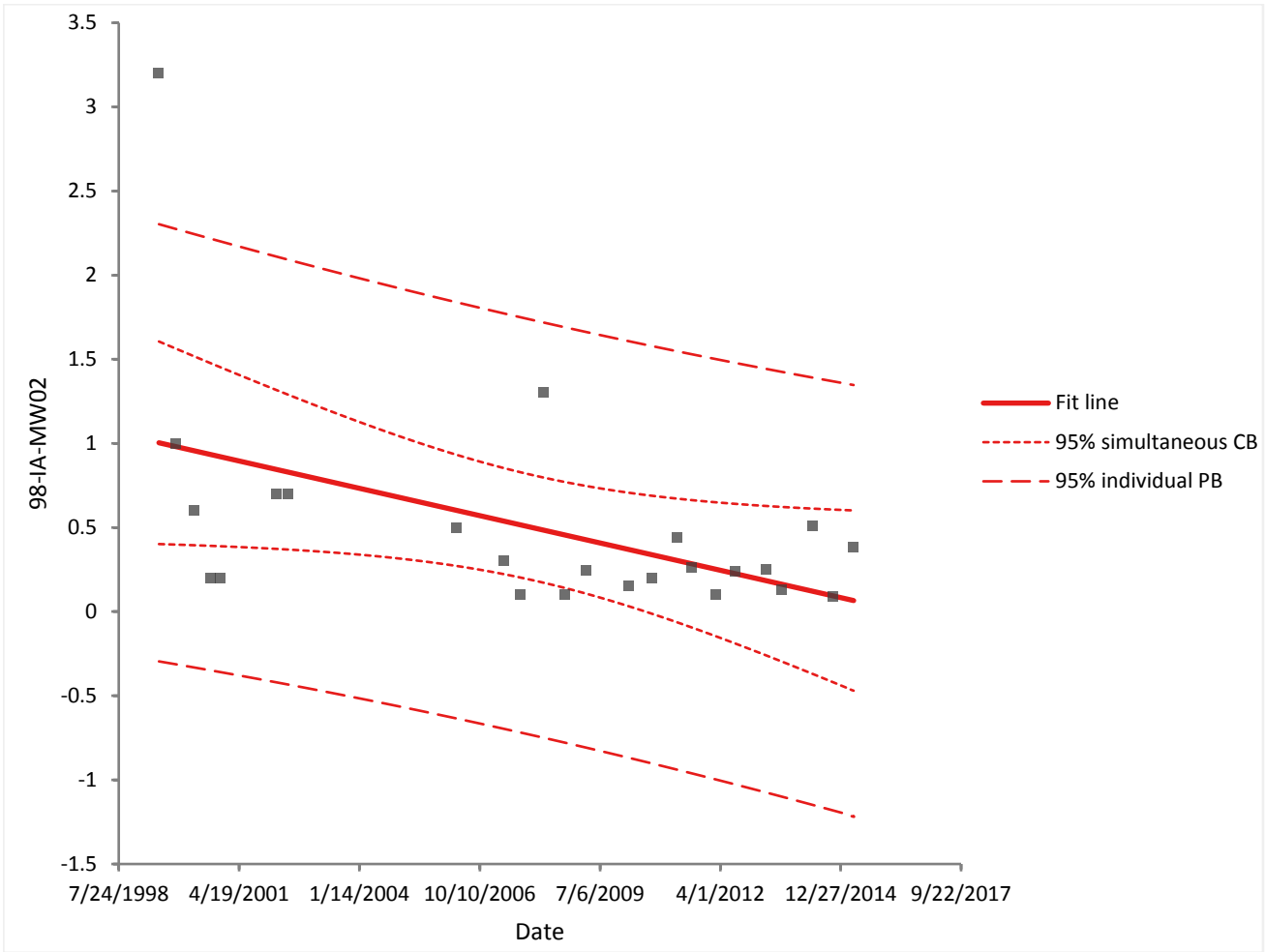
### Appendix B - Statistics Graphs

Distribution Histograms, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433



### Appendix B - Statistics Graphs

Linear Regression Graph, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433

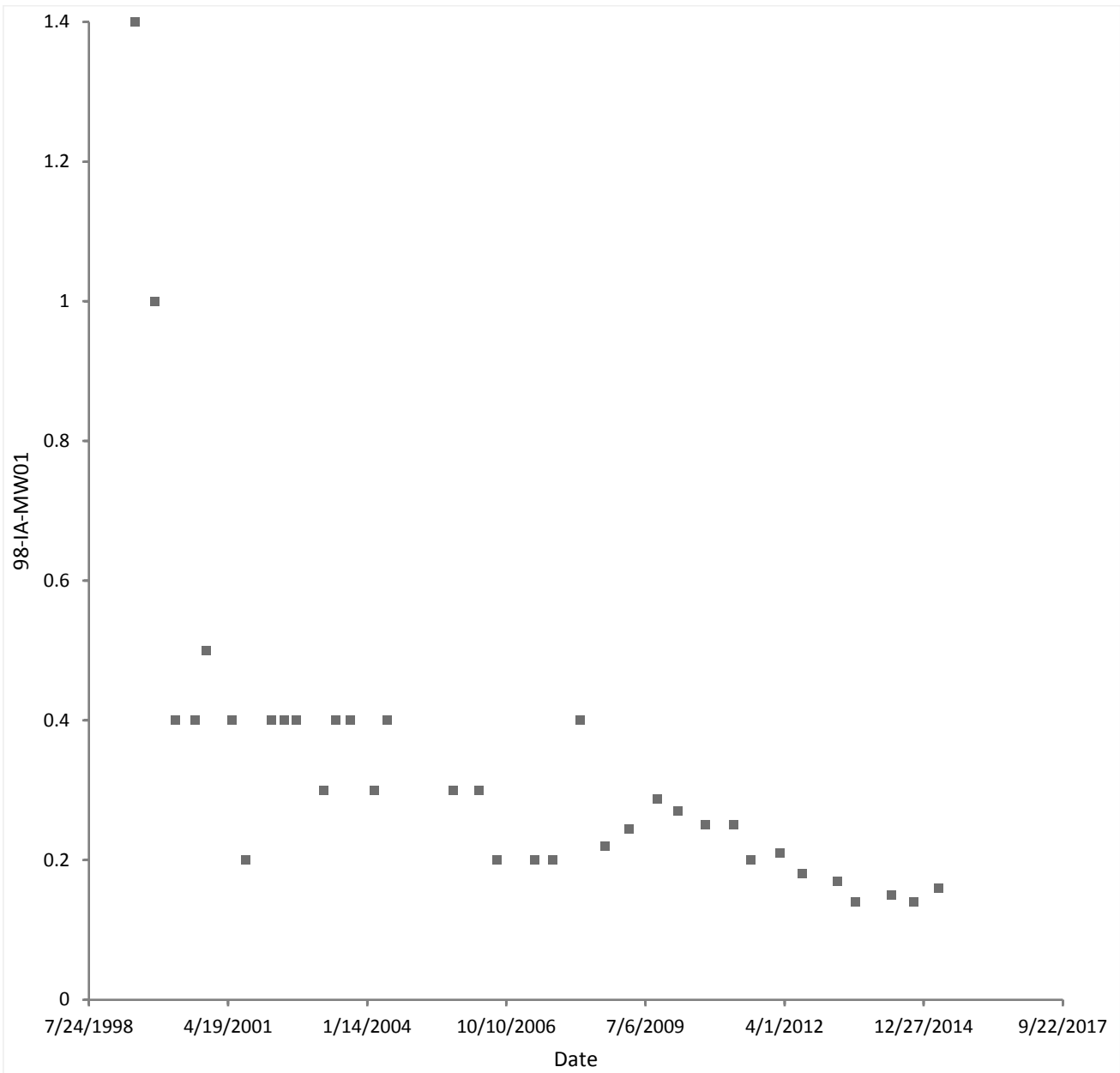






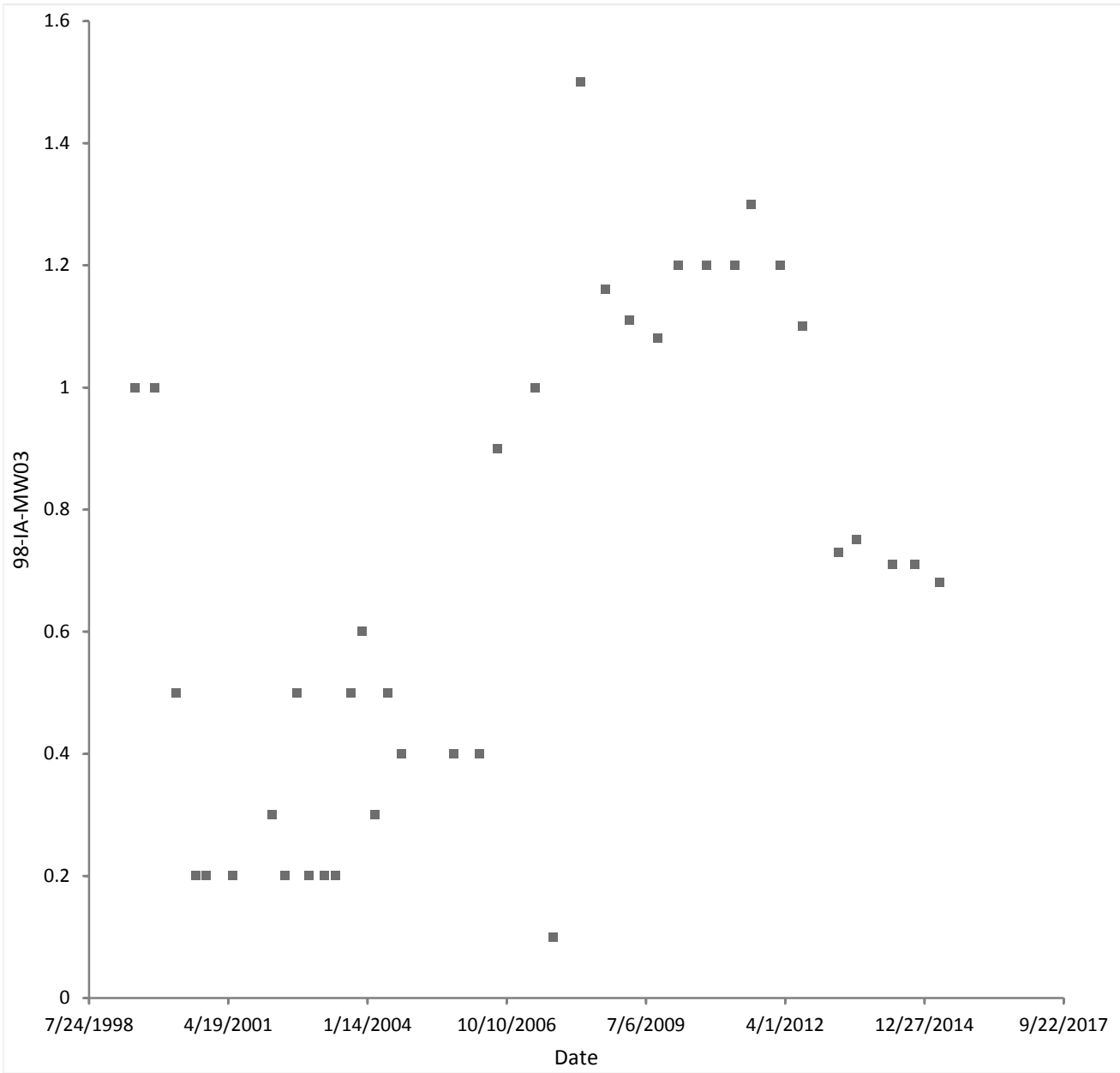
### Appendix B - Statistics Graphs

Kendall Correlation Graphs, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433



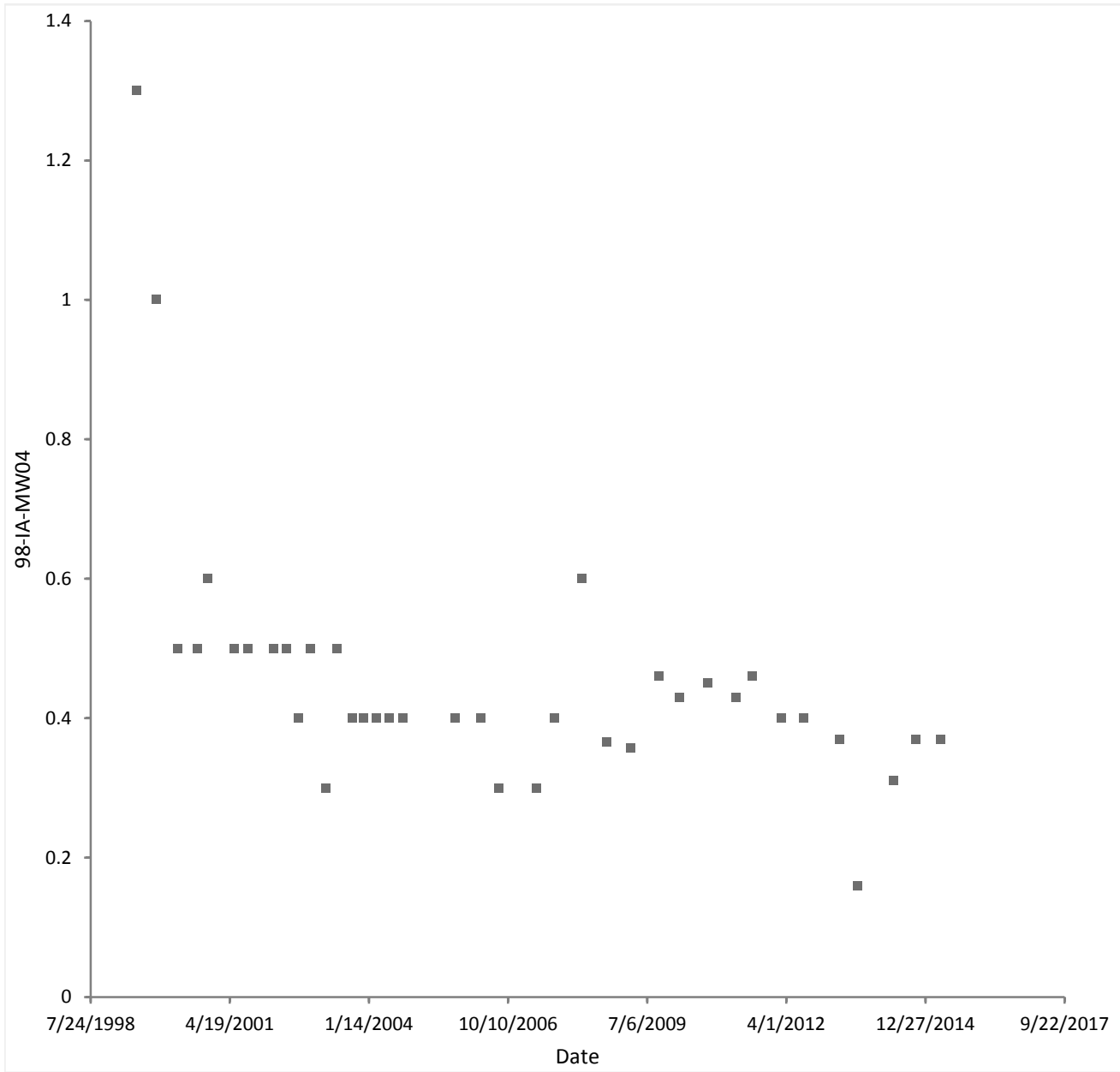
### Appendix B - Statistics Graphs

Kendall Correlation Graphs, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433



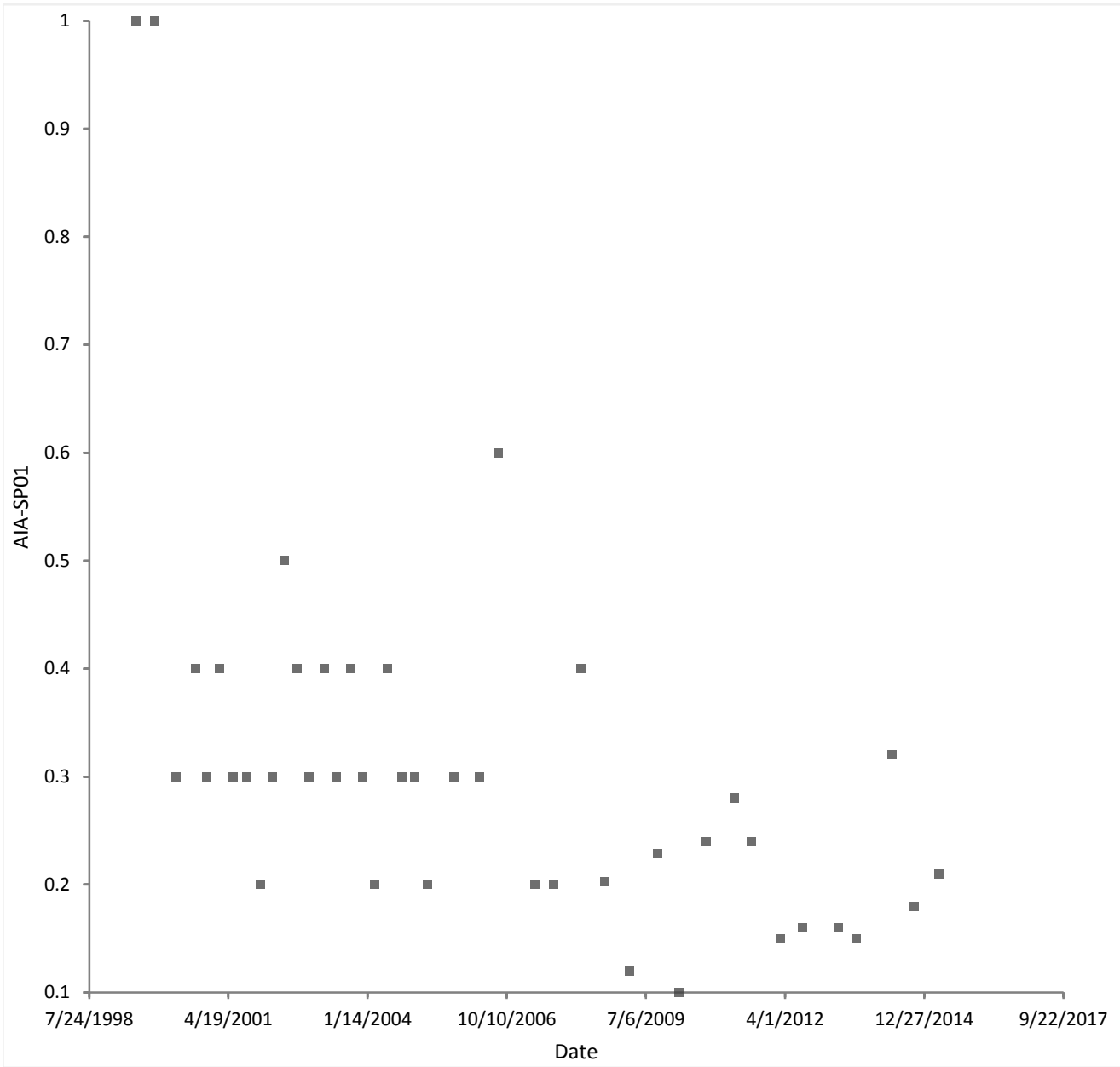
### Appendix B - Statistics Graphs

Kendall Correlation Graphs, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433



### Appendix B - Statistics Graphs

Kendall Correlation Graphs, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433





### Appendix B - Statistics Graphs

Kendall Correlation Graphs, Artillery Impact Area, Joint Base Lewis - McChord, Washington 98433

