



ENVIRONMENTAL ENGINEERING

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Underground Storage Tank System Closure Report



Former White River Truck Repair
11940 North US Highway 31
Edinburgh, Indiana
FID #13779

February 24, 2015

MISSION STATEMENT

Our mission is to serve our clients in a professional and dedicated manner by helping them to navigate the environmental regulatory process. We will practice strong environmental stewardship in our actions, in our thoughts and in our hearts. This mission is not one of activism but of caretaking for the environment within the regulatory process.



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- PO Box 114, Montpelier, IN 47359
- 6801 Lake Plaza Dr, Ste C301, Indianapolis, IN 46220
- 2328 N. US Hwy 35, Unit A, Laporte, IN 46350

Underground Storage Tank System Closure Report

Former White River Truck Repair
11940 North US Highway 31
Edinburgh, Indiana
Bartholomew County
Facility ID #13779

February 24, 2015

Creek Run L.L.C. Environmental Engineering
P.O. Box 114
Montpelier, IN 47359
765-728-8051
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Underground Storage Tank System Closure Report

Prepared For:

IDEM UST Section
100 North Senate Avenue
Indianapolis, Indiana 46204

L & Q Realty LLC
30 West 11th Street
Anderson, Indiana 46016

For the Site:

Former White River Truck Repair
11940 North US Highway 31
Edinburgh, Indiana 46124
Facility ID #13779

Prepared By:

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Project Manager

February 24, 2015
Date

Stephanie Bragg, GIT
Project Manager

February 24, 2015
Date

Christopher Parks, LPG
Senior Project Manager

February 24, 2015
Date

R. Jason Lenz, PhD
Chief Operating Officer

February 24, 2015
Date

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1.0 Introduction

This *Underground Storage Tank System Closure Report* presents the results of an underground storage tank (UST) system closure performed by SCS Environmental Contracting (SCS) and a site assessment performed by Creek Run L.L.C. Environmental Engineering (Creek Run) at the Former White River Truck Repair (FID #13779) located at 11940 North US Highway 31 in Edinburgh, Indiana. The site location is illustrated on the topographical map provided as **Figure 1** in **Appendix A**.

On January 26, 2015, one steel UST formerly containing used oil was closed by removal. The location of the former UST is illustrated on the site map provided as **Figure 2**. The site assessment included: examination of soil samples for staining, discoloration, and atypical odors, and headspace analysis [performed with a MiniRae 3000 photoionization detector (PID)]. Representative soil samples were collected for laboratory analysis. Tables summarizing PID readings and analytical results of samples collected during the assessment are provided in **Appendix B**. The former used oil UST was discovered during site renovation and was not previously registered. A Notification for Underground Storage Tanks (State Form 45223) has been included with this report in **Appendix C**.

No chemicals of concern (COCs) were present at concentrations exceeding laboratory detection limits or respective *Remediation Closure Guide* (RCG) screening levels in soil and groundwater samples collected from the location of the former orphaned used oil UST.

This report has been prepared to comply with the Indiana Department of Environmental Management (IDEM) UST Rule 329 IAC 9-6-2.5 (September 2004). All sampling and analysis were performed in compliance with the *IDEM UST Branch Guidance Manual* and United States Environmental Protection Agency (US EPA) methods. Based on findings from this environmental assessment, Creek Run believes that a new release has not occurred at the site and it appears no further action is necessary.

2.0 Owner/Operator Information

2.1 Current Owner Information

L & Q Realty LLC
30 West 11th Street
Anderson, Indiana 46016
(765) 643-3016

2.2 Operator Information (no longer in use)

The current owner (L & Q Realty LLC) never operated the UST.



2.3 Contact Person

Mr. Terry Matthews
 Director of Maintenance and Facilities
 L & Q Realty LLC
 (765) 643-3016

2.4 Past Owners and Operators

The facility never operated under L & Q Realty LLC. The following ownership information is documented extensively in the *Phase I and II Environmental Site Assessment* (Creek Run, June 6, 2014) and *Initial Site Characterization* (Creek Run, August 6, 2014):

Past & Present Property Owner Names	Dates	Property Use
L & Q Realty LLC	12/19/14 to present	Site is undergoing construction
HHH-TS Properties, LLC	10/11/2013 to 12/9/14	Garden statue store and truck repair facility
HHH Properties, LLC	12/29/2008 to 10/11/2013	Garden statue store and truck repair facility
Janet E Fivecoat Revocable Trust	5/13/2002 to 12/29/2008	Garden statue store and truck repair facility
Janet Fivecoat	8/2/1999 to 5/13/2002	Garden statue store and truck repair facility
Unknown	1978 to 1999	Unknown, aerial photographs indicate the property was developed and USTs were removed in 1990
Unknown	at least 1952 to 1978	Vacant land

3.0 UST Contractor

Mr. Doug Woods
 OSFM #UC2000606737
 SCS Environmental Contracting
 P.O. Box 8980
 Fort Wayne, Indiana 46898
 (260) 497-9006



4.0 UST Site

4.1 Facility Information

Former White River Truck Repair (Facility ID #13779)
11940 North US Highway 31
Edinburgh, Indiana 46124
Site is currently vacant; no telephone number is available.

4.2 Site Operations

The site is currently vacant, however construction of a vehicle refueling facility and convenience store is taking place. Prior to its vacancy the property was utilized as a vehicle refueling facility and truck repair facility from at least 2001. According historic documents obtained by Creek Run, the property was vacant land until at least 1978.

4.3 Site Surface Coverage

On January 26 and 28, 2015, surface coverage at the site consisted of uneven excavated soil. However, construction of a vehicle refueling facility and convenience store is currently taking place at the property. Current and former surface coverage features are illustrated on the site map (**Figure 2**).

4.4 Reported Spills/LUST Incidents

One LUST release is associated with FID #13779. Incident #201407508 was reported during *Phase I and Phase II Environmental Site Assessment* (Creek Run, June 6, 2014) activities. A brief summary is provided below.

Incident #201407508

On July 21, 2014, on behalf of HHH-TS, Creek Run reported a confirmed LUST release to IDEM based on laboratory analytical results from soil and groundwater samples collected during Phase I and II ESA activities. In a letter entitled *Initial Site Characterization Request* dated July 23, 2014, IDEM assigned Incident #201407508 and requested an Initial Site Characterization Report. Creek Run evaluated the release and submitted an *Initial Site Characterization* to IDEM on August 6, 2014. The August 6, 2014 report documented that soil and groundwater impacts were minimal and it appeared that additional investigation to delineate the vertical and horizontal extent of soil and groundwater impacts was not necessary and recommended closure of Incident #201407508. IDEM issued No Further Action for Incident #201407508 in a January 31, 2015 letter entitled *No Further Action Approval Determination Pursuant to Remediation Closure Guide*.

4.5 Site Surrounding and Proximity to Sensitive Areas

The site is located in a primarily commercial area on the southwest corner of the intersection of US Highway 31 and Hartman Drive in Edinburgh, Indiana.



According to the IDEM Wellhead Proximity Determination Map, provided in **Appendix D**, the site is located within a Wellhead Protection Area (WHPA). According to the Indiana Department of Natural Resources (IDNR) Water Wells Enhanced Web Viewer, the nearest known municipal water well (well #211431) is located approximately 0.86 mile (4,518 feet) southeast of the site and the nearest known private water well (well #211456) is located approximately 125 feet south of the southern property line. An unused potable well in the vicinity of the former White River Truck Repair building was decommissioned during site construction activities following the UST closure.

A search of ecologically susceptible areas utilizing IDNR Indiana recreation sites and nature preserves maps revealed Atterbury State Fish and Wildlife Area was located 0.86 mile (4,544 feet) northwest and Driftwood Public Fishing Area is located approximately one mile northwest of the site. No other forests, reservoir areas, recreation areas, wildlife refuges, fish hatcheries, or nature preserves were located within a 1-mile radius of the site. A Google maps search revealed no municipal parks located within a 1-mile radius of the site. According to the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory map viewer, the nearest wetland area, a freshwater forested/shrub wetland which parallels the Driftwood River, is located approximately 0.14 miles (735 feet) west of the site. The nearest known surface water body is an unnamed pond located approximately 0.18 miles (950 feet) southeast of the site.

The presence of geologically susceptible conditions was evaluated by determining the proximity of near-surface bedrock, streams, rivers, and other water bodies. According to well records, bedrock was not encountered up to 118 feet below grade in wells within a 1.0-mile radius of the site. Bedrock was not encountered in borings advanced during previous investigations to a depth of at least 30 feet below grade.

The presence of other sensitive areas (residences and schools) was identified using the Indiana Geological Survey Indiana Map Viewer and conducting a survey of the surrounding area. The nearest residential property is located 0.49 miles (2,571 feet) north-northwest of the site. The nearest school, Taylorsville Elementary, is located 1.24 miles (6,532 feet) southeast of the site.

4.6 Site Soil Textures

According to the United States Department of Agriculture (USDA) Web Soil Survey of Bartholomew County, Indiana, the predominant soil type beneath the site is urban land-Nineveh. These soils consist of well drained, nearly level, loamy outwash over gravelly sandy outwash soils formed in urban areas and stream terraces (Wigginton and Marshall, 2004). The Bartholomew County soil classification map, along with a map legend and map unit legend are included in **Appendix E**.



5.0 Site-Specific Discussion

On January 26, 2015, one steel orphaned UST formerly containing used oil was closed by removal. Approximately 136 gallons of used oil were removed by vacuum truck from the UST and transported by National Environmental, Inc. for recycling. The UST was then properly vented and cleaned of remaining sludge prior to transportation from the site for recycling as described in Section 8.0. The location of the former UST is illustrated on the site map provided as **Figure 2**.

The area excavated during UST removal measured approximately nine feet long, eight feet wide, and eight feet deep. Following UST system closure activities, the excavated fill material was returned to the excavation. Additional backfill material was not placed within the excavation. Surface coverage was completed with surrounding soil used as backfill, brought to grade and compacted in lifts. Photographs documenting UST system closure activities are provided in **Appendix F**.

Groundwater did not accumulate in the excavation on January 26, 2015, therefore on January 28, 2015 Creek Run advanced one boring in the location of the former tank pit to obtain a groundwater sample.

6.0 Underground Storage Tanks

6.1 UST System Information

Tank ID	Year Installed	Capacity (Gallons)	Contents	Construction	Method of Leak Detection	Date Removed
1	Unknown	6,000	Gasoline	Steel	Unknown	1/12/1990
2	Unknown	6,000	Gasoline	Steel	Unknown	1/12/1990
3	Unknown	6,000	Diesel	Steel	Unknown	1/12/1990
4	Unknown	6,000	Diesel	Steel	Unknown	1/12/1990
5	Unknown	6,000	Diesel	Steel	Unknown	1/12/1990
6	Unknown	550	Used Oil	Steel	Unknown	1/26/2015

6.2 Previous UST Operations

A search for articles on the IDEM Virtual File Cabinet (VFC) revealed no information regarding former USTs at the site.

Historical documents obtained by Creek Run indicate five USTs were formerly present on-site containing gasoline and diesel fuel. According to documents these USTs were removed in January 1990. Laboratory analytical results indicate that samples were collected during the removal of the UST system and one sample contained a total petroleum hydrocarbon (TPH) concentration of 469 parts per million (ppm). Approximately 75 cubic yards of material were removed from the site during the UST removal. The location of the former USTs and UST



closure samples is unknown, however, an estimated location of the former USTs is illustrated on **Figure 2** based on visual observations and a conversation with the former property owner. It is unknown when the former used oil UST was installed.

6.3 Leak Detection Method

There is no record of any leak detection tests for the subject UST.

6.4 Line Leak Detection Method

There is no record of any line leak detection tests for the subject UST.

6.5 Tightness Testing

There is no record of any tank tightness tests for the subject UST.

6.6 Cathodic Protection Testing

There is no record of any cathodic protection tests for the subject UST.

7.0 Soil and Groundwater Samples

7.1 Sample Collection

7.1.1 Sampling Locations

On January 26, 2015, seven soil samples (plus one duplicate sample) were collected from the UST cavity. Sample locations are illustrated on **Figure 3**.

- Four soil samples (SW-1 through SW-4) were collected from native soil along the sidewalls of the UST cavity at a depth of approximately four feet below ground surface (bgs). Sidewall samples were collected at 20 linear foot intervals (or a fraction thereof) around the UST cavity.
- Two soil samples (UB-1 and UB-2) were collected from native soil below the UST at a depth of approximately eight feet bgs within three feet of each end of the UST.
- One soil sample (EM-1) was collected from the approximately 19 cubic yards of fill material surrounding the USTs. Following UST removal and sample collection, the excavated fill material was returned to the UST excavation.
- One duplicate soil sample (HS-1) was collected at soil sample location SW-2. Matrix spike/matrix spike duplicate (MS/MSD) samples were collected at soil sample location UB-1.

During closure activities, groundwater did not accumulate in the UST cavity. However, Creek Run mobilized to the site on January 28, 2015 to advance a temporary well and collect a groundwater sample (WT-1) from beneath the UST cavity. A trip blank (TB-1) was also submitted along with WT-1 for analysis.



7.1.2 Assessment Sampling Procedures and Techniques

Soil samples were obtained with the aid of the excavator bucket. Samples were visually examined for staining, discoloration, and atypical odors and screened for vapors, prior to being placed directly into laboratory supplied sample containers.

On January 28, 2015, a soil boring was advanced (B-6) using a Geoprobe 6610DT direct-push drill rig at the location illustrated on **Figure 3**. Soil samples were collected from the boring in continuous five foot increments using a hydraulically driven, stainless steel sampling tube equipped with a clear, co-polyester liner. The liners collected relatively undisturbed 1.5-inch diameter soil cores continuously to the base of the boring. Upon retrieval from the sampling tube, the liners were opened to allow lithologic description and field screening.

Soil samples collected from the boring were visually characterized in the field based upon the Unified Soil Classification System (USCS) soil type, moisture, Munsell[®] color, and for evidence of contamination such as odor and staining. If soils were cohesive, a pocket penetrometer was used and the hardness reading was recorded for each sample interval. Upon retrieval, soil was screened at 0.5-foot intervals for photoionizable vapors using a calibrated MiniRae 3000 PID. The soil boring log is provided in **Appendix G**.

Groundwater was encountered during boring advancement at an approximate depth of 20 feet below grade. Upon reaching a total depth, soil boring B-6 was converted into a temporary well. The temporary well was constructed by placing ten feet of one-inch diameter, factory-slotted, 0.01-inch PVC screen into boring B-6, along with sufficient blank riser to reach the ground surface. The groundwater sample (WT-1) from temporary well placed in soil boring B-6 was collected using a new, disposable bailer, poured directly into appropriate containers provided by the laboratory, and stored in an ice-filled cooler. Following sample collection, the temporary well was removed and the boring was backfilled with bentonite and capped with surrounding backfill material.

7.1.3 Field Screening

The concentration of total photo-ionizable vapors was measured with a Mini Rae 3000 PID calibrated to 100 parts per million (ppm) isobutylene. A summary of PID readings is provided in **Table 1** and on boring log to B-6.

7.1.4 Sample Collection Methodology

Soil samples submitted for analysis of volatiles were collected and handled in accordance with US EPA sampling Method 5035A. Soil samples collected for volatile organic compound (VOC) analysis were obtained using Terra Core[™] samplers from the interior of the soil sample to minimize sample contact with the atmosphere, and placed in laboratory supplied pre-weighed vials. Soil samples collected for polynuclear aromatic hydrocarbons (PAHs) and lead analysis were placed directly into laboratory supplied, unpreserved 4-ounce glass jars equipped



with Teflon lids. All samples were immediately placed into an ice-filled cooler. Samples for VOC analysis were frozen within 48-hours.

The groundwater sample (WT-1) collected from the boring advanced on January 28, 2015 was collected using a new, disposable bailer. The sample was poured directly into glass 40-ml vials containing hydrochloric acid (HCl) preservative, unpreserved, glass 40-ml vials, and plastic 250-ml jars containing nitric acid (HNO₃) preservative, labeled, and placed immediately into an ice-filled cooler.

7.1.5 Decontamination Procedures

Soil samples collected from the UST excavation during this investigation were collected with the aid of an excavator bucket in a manner that prevented sample contact with the bucket. Field collection personnel used nitrile gloves to cover their hands during all sample collection activities. A new pair of gloves was used for each sample to avoid cross contamination.

The groundwater sample, WT-1, was collected using a new, disposable bailer, poured directly into appropriate containers provided by the laboratory, and immediately placed in an ice-filled cooler.

7.2 Sample Analysis

7.2.1 Laboratory Analysis

Soil samples were delivered to ENVision Laboratories, Inc. (ENVision) and analyzed for VOCs by US EPA SW846 Method 8260, PAHs by Method 8270 SIM, and lead by Method 6010B, in accordance with RCG requirements.

The groundwater sample (WT-1) collected from the temporary well was delivered to ENVision and analyzed for VOCs by US EPA SW846 Method 8260, PAHs by Method 8270 SIM, and total lead by Method 6010. A trip blank sample (TB-1) was maintained within the sample cooler during the groundwater sampling event and analyzed for VOCs by US EPA SW846 Method 8260.

7.2.2 Chain of Custody Documentation

Chain of custody forms were completed for samples collected during the assessment to provide a record of each sample from the point of origin through laboratory analysis. A copy of these forms, along with laboratory analytical reports for samples collected on January 26, 2015 and January 28, 2015 are included in **Appendix H**.

7.3 Sample Analysis Results

7.3.1 Soil Analytical Results

Soil analytical results are summarized in **Table 1** (VOCs) and **Table 2** (PAHs and Lead) and are illustrated on **Figure 3** (Selected VOCs). No COCs were detected lead in any soil samples exceeding respective RCG screening levels.



7.3.2 Groundwater Analytical Results

Analytical results for the groundwater sample collected from the temporary well installed within the UST cavity (WT-1) are summarized in **Table 3** (VOCs) and **Table 4** (PAHs and Total Lead) and are illustrated on **Figure 3** (Selected COCs). No COCs were detected in the groundwater sample at concentrations exceeding LDLs or RCG Residential Groundwater Tap (RGT) screening levels.

8.0 Miscellaneous Closure Documentation

8.1 Soil and Water Disposal Documentation

Approximately 19 cubic yards of fill material surrounding the UST was replaced in the excavation following UST removal and assessment sample collection. No soil was removed from the site during UST system closure activities.

8.2 Remaining Product and Sludge Disposal Documentation

Approximately 136 gallons of used oil were removed by vacuum truck from the UST by National Environmental, Inc. of Indianapolis, Indiana and transported to Future Environmental, Inc. in Indianapolis, Indiana for recycling. Residual used oil, sludge, and absorbent material (one drum) removed from the UST during cleaning was transported on February 24, 2015 by Liquid Waste Removal (LWR). Disposal documentation was not available at the time of this submittal. Disposal documentation will be available upon request following receipt from LWR.

8.3 Tank and Piping Disposal Documentation

The 550-gallon steel UST was transported to Grant Line Metal Recycling LLC in New Albany, Indiana for recycling. Disposal documentation is provided in **Appendix I**.

8.4 Professional Qualifications

Professional qualifications of Creek Run personnel who oversaw the closure of the UST system and contributed to the assembly of this report are provided in **Appendix J**.

9.0 Conclusions and Recommendations

9.1 Conclusions

No COCs were present at concentrations exceeding respective RCG screening levels in soil and groundwater samples collected from the location of the former used oil UST.

9.2 Recommendations

The used oil UST at the Former White River Truck Repair was closed by removal on January 26, 2015. All closure activities were conducted in accordance with UST Rule IAC 9-6-2.5 (September 2004). Based on findings from this



environmental assessment, Creek Run believes that a new release has not occurred at the site and it appears no further action is necessary.

10.0 References

Indiana Department of Environmental Management (IDEM). IDEM Wellhead Proximity Determinator. <http://idemmaps.idem.in.gov/whpa/>.

Indiana Department of Natural Resources (IDNR). DNR Water Wells Enhanced Web Viewer. http://dnrmmaps.dnr.in.gov/apps/dnrwaterwells_enh/.

Indiana Geological Survey. Indiana University. Indiana Map Viewer. <http://maps.indiana.edu/>.

Remediation Closure Guide. IDEM, March 22, 2012. <http://www.in.gov/idem/6683.htm>

Wigginton, M. and D. Marshall, 2004. Soil Survey of Bartholomew County, Indiana. US Department of Agriculture, Natural Resources Conservation Service.

United States Department of Agriculture (USDA). 2013. Web Soil Survey. <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.

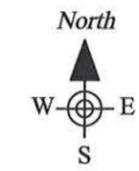
United States Fish and Wildlife Service (USFWS). National Wetlands Inventory Map Viewer. <http://fws.gov/wetlands/Wetlands-Mapper.html>.



Appendix A

Figures





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Standard Legend

- | | |
|------------------|--------------------|
| Water Line | Electric Line |
| Gas Line | Communication Line |
| Sewer Line | Storm Sewer Line |
| Fiber Optic Line | Overhead Line |
| Monitoring Well | Soil Boring |

Legend

SITE INFORMATION:
 County: Bartholomew
 Civil Township: German
 Elevation: 662' ±

PUBLIC LAND SURVEY SYSTEM (PLSS)
 Section: 15
 Township: 10N
 Range: 5E

UTM COORDINATES
 Zone: 16S
 Easting: 0589137.3
 Northing: 4351774.1
 Coordinates location: Approx. center of property

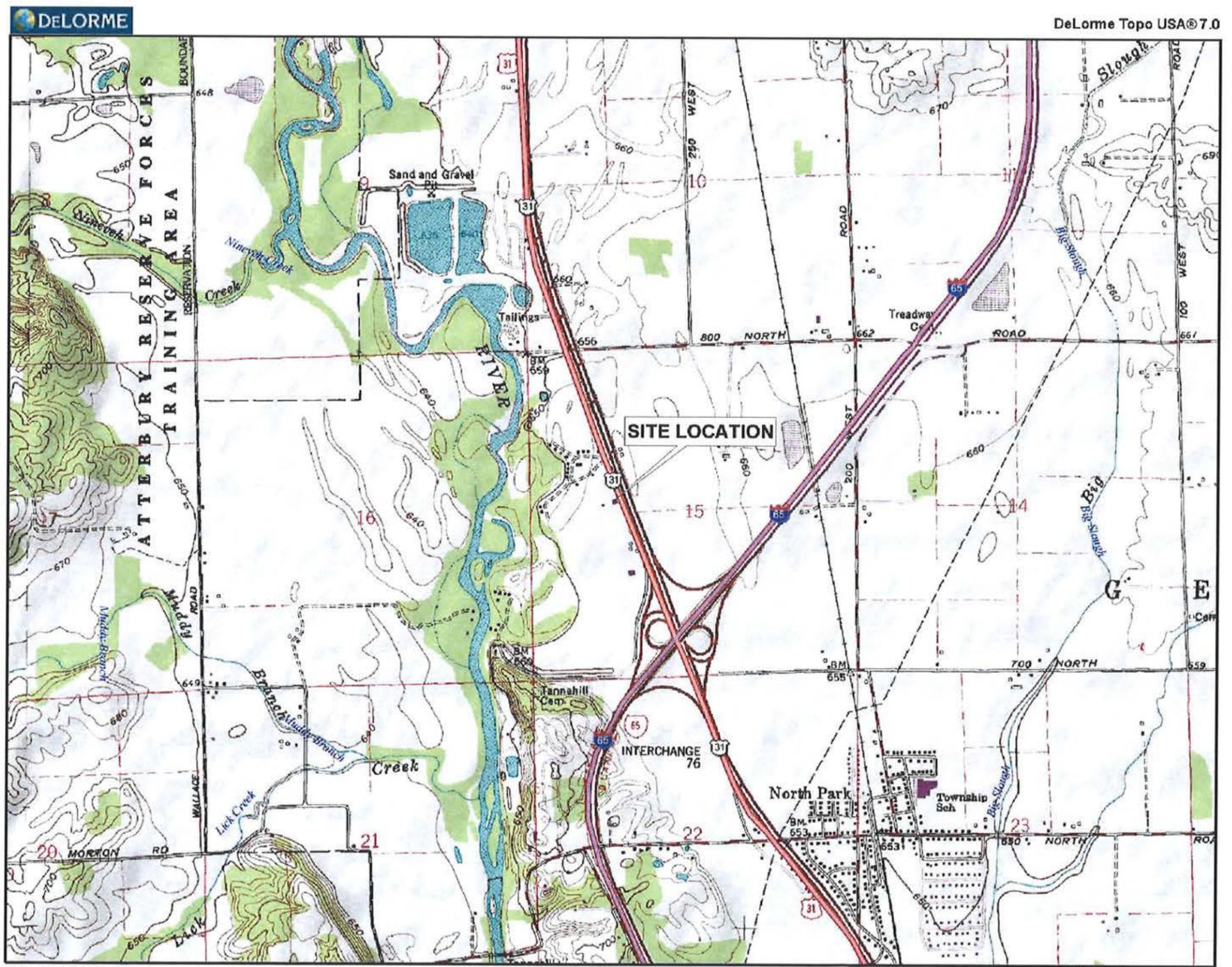
Drawn By: <u>R.N.</u>	Checked By: <u>S.B.</u>
Date: <u>8-1-14</u>	Date: <u>8-4-14</u>

File No.: <u>R100-EDB1-101-1</u>	Revision: <u>1</u>
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Title:
Topographical Map

Location: **Former
 White River Truck Repair
 11940 North U.S. 31
 Edinburgh, IN**

Scale: <u>AS NOTED</u>	Figure: 1
---------------------------	---------------------



Data use subject to license.
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 www.delorme.com

Scale 1 : 25,000
 1" = 2,083.3 ft Data Zoom 13-0



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Standard Legend

Water Line — W — W —	Electric Line — E — E —
Gas Line — G — G —	Communication Line — C — C —
Sewer Line — S — S —	Storm Sewer Line — ST — ST —
Fiber Optic Line — FO — FO —	Overhead Line — OL — OL —
⊕ Monitoring Well	◆ Soil Boring

Legend

Possible Former UST Area

Approx. property line

550 gal. used oil UST

Hydraulic lift

Former White River Truck Repair

Concrete vault

Approximate location of former sewer line

Former used oil AST

oil/water separator

cleanout

former fencing

grass

asphalt

gravel

U.S. Highway 31 (northbound lanes)

U.S. Highway 31 (southbound lanes)

grass meridian

gas mtr.

fire dispenser

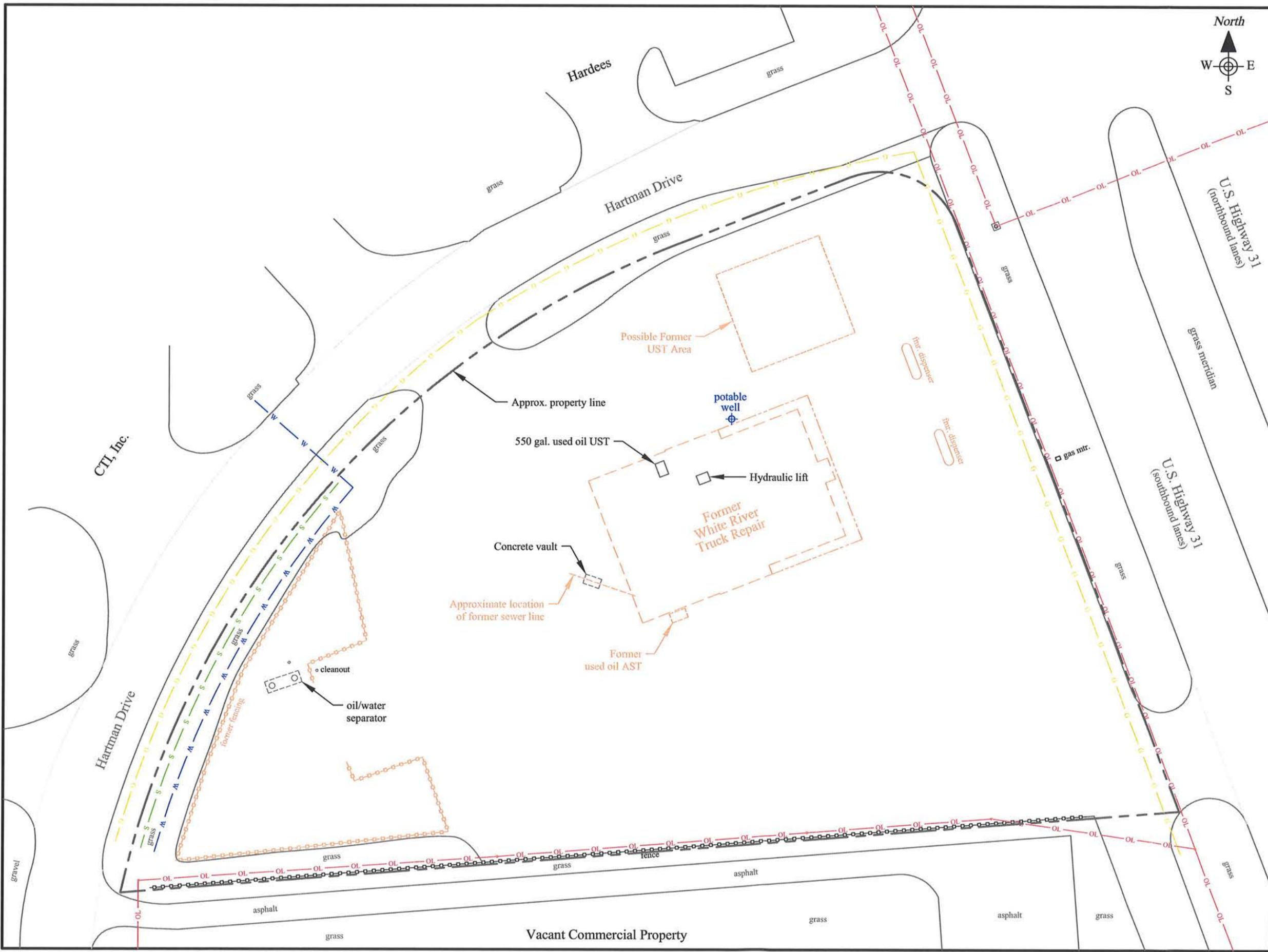
Drawn By: R.N. Checked By: R.P.
 Date: 2-6-15 Date: 2-6-15

File No.: R100-EDB1-102-4 Revision: 4

Title:
**Site Map
 Prior to
 UST Closure**

Location:
**Former
 White River Truck Repair
 11940 North U.S. 31
 Edinburgh, IN**

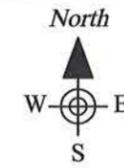
Scale: 1" = 40'
 40'
 Figure: **2**



Vacant Commercial Property



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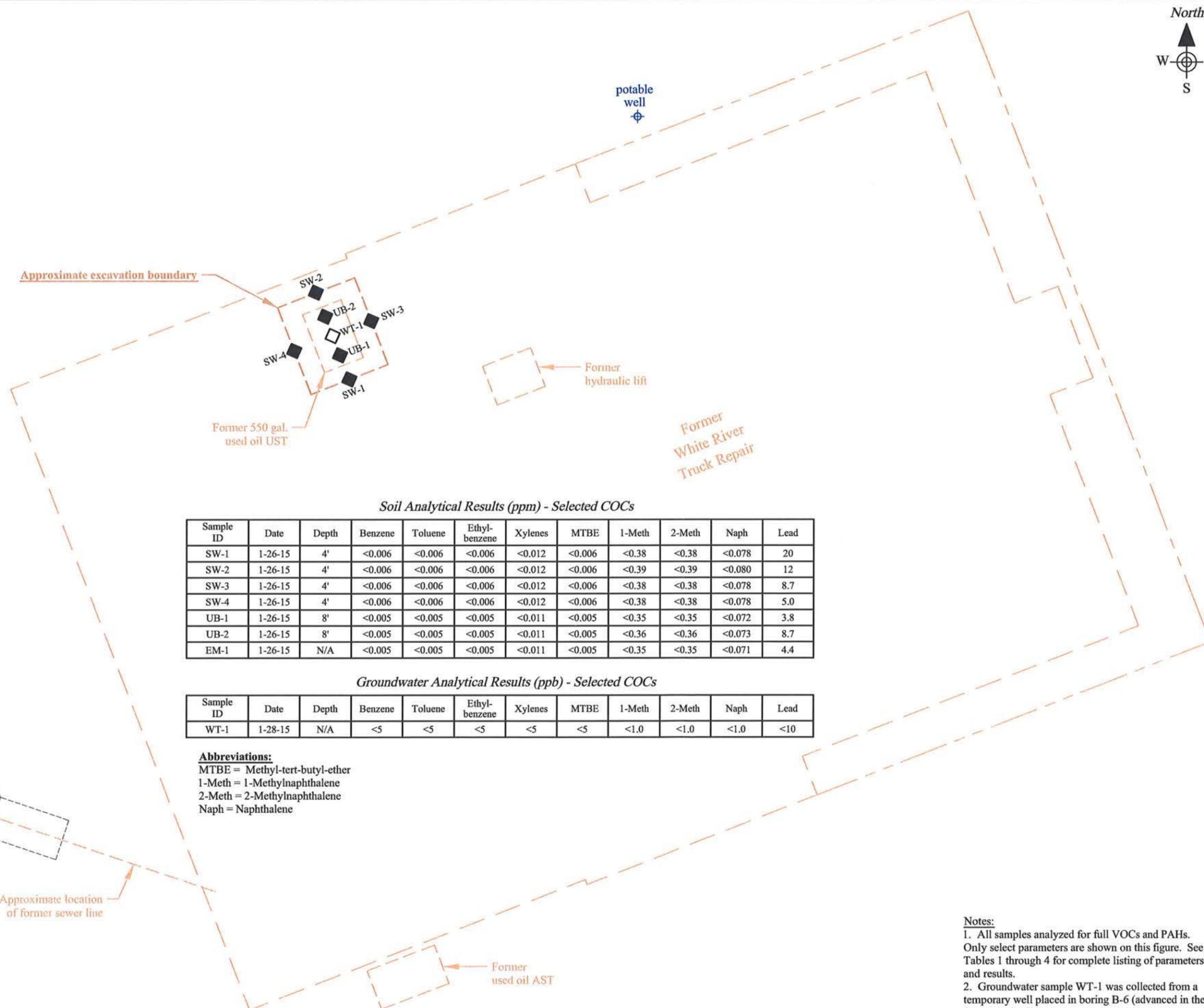


Standard Legend

Water Line	Electric Line
Gas Line	Communication Line
Sewer Line	Storm Sewer Line
Fiber Optic Line	Overhead Line
Monitoring Well	Soil Boring

Legend

- UST Closure
- Excavation Boundary
- SW-1 Soil Sample Location
- Shown in RED if exceed RCG SMTG Screening Levels (none present)
- WT-1 Groundwater Sample Location
- Shown in RED if exceed RCG RGT Screening Levels (none present)
- Soil results reported in parts per million (ppm)
- Groundwater results reported in parts per billion (ppb)
- N/A = Not applicable
- EM-1 = Sample collected from excavation backfill
- RCG = Remediation Closure Guide
- SMTG = Soil Migration to Groundwater
- RGT = Residential Groundwater Tap
- COCs = Chemicals of Concern
- VOCs = Volatile organic compounds
- PAHs = Polynuclear aromatic hydrocarbons



Soil Analytical Results (ppm) - Selected COCs

Sample ID	Date	Depth	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	1-Meth	2-Meth	Naph	Lead
SW-1	1-26-15	4'	<0.006	<0.006	<0.006	<0.012	<0.006	<0.38	<0.38	<0.078	20
SW-2	1-26-15	4'	<0.006	<0.006	<0.006	<0.012	<0.006	<0.39	<0.39	<0.080	12
SW-3	1-26-15	4'	<0.006	<0.006	<0.006	<0.012	<0.006	<0.38	<0.38	<0.078	8.7
SW-4	1-26-15	4'	<0.006	<0.006	<0.006	<0.012	<0.006	<0.38	<0.38	<0.078	5.0
UB-1	1-26-15	8'	<0.005	<0.005	<0.005	<0.011	<0.005	<0.35	<0.35	<0.072	3.8
UB-2	1-26-15	8'	<0.005	<0.005	<0.005	<0.011	<0.005	<0.36	<0.36	<0.073	8.7
EM-1	1-26-15	N/A	<0.005	<0.005	<0.005	<0.011	<0.005	<0.35	<0.35	<0.071	4.4

Groundwater Analytical Results (ppb) - Selected COCs

Sample ID	Date	Depth	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	1-Meth	2-Meth	Naph	Lead
WT-1	1-28-15	N/A	<5	<5	<5	<5	<5	<1.0	<1.0	<1.0	<10

Abbreviations:
 MTBE = Methyl-tert-butyl-ether
 1-Meth = 1-Methylnaphthalene
 2-Meth = 2-Methylnaphthalene
 Naph = Naphthalene

Notes:
 1. All samples analyzed for full VOCs and PAHs. Only select parameters are shown on this figure. See Tables 1 through 4 for complete listing of parameters and results.
 2. Groundwater sample WT-1 was collected from a temporary well placed in boring B-6 (advanced in the former tank pit).

Drawn By: R.N. Checked By: R.P.
 Date: 2-6-15 Date: 2-6-15

File No.: R100-EDB1-108-0 Revision: 0

Title: **UST Closure
 Soil and Groundwater
 Analytical Results -
 Selected COCs**

Location: **Former
 White River Truck Repair
 11940 North U.S. 31
 Edinburgh, IN**

Scale: 1" = 10'
 Figure: **3**

Appendix B

Tables



TABLE 1
Soil Vapor Readings and Analytical Results - VOCs
Former White River Truck Repair
11940 N US 31
Edinburgh, Indiana

Analyte	Sample ID	SW-1	SW-2		SW-3	SW-4	UB-1	UB-2	EM-1	RCG SMTG	RCG RDC	RCG C/IDC
	Depth	4'	4'	*HS-1	4'	4'	8'	8'	NA			
	Date	1/26/15	1/26/15		1/26/15	1/26/15	1/26/15	1/26/15	1/26/15			
	PID	0.0	47.5		0.0	0.0	0.0	0.0	0.0			
Acetone		<0.116	<0.119	<0.118	<0.116	<0.116	<0.108	<0.109	<0.106	49	85,000	100,000
Acrolein†		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00018	<0.00018	<0.00018	0.00017	0.21	0.65
Acrylonitrile		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	3.4	12
Benzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.051	15	54
Bromobenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.73	420	680
Bromochloromethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.41	220	680
Bromodichloromethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.43	3.8	14
Bromoform		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.42	870	2,200
Bromomethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.035	10	32
n-Butanol		<0.058	<0.060	<0.059	<0.058	<0.058	<0.054	<0.054	<0.056	6.2	8,500	62,000
2-Butanone (MEK)		<0.012	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.011	21	28,000	28,000
n-Butylbenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	50	110	110
sec-Butylbenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	94	150	150
tert-Butylbenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	23	180	180
Carbon Disulfide		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	4.2	740	740
Carbon Tetrachloride		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.039	8.5	30
Chlorobenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	1.4	410	760
Chloroethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	120	2,100	2,100
2-Chloroethylvinylether		<0.058	<0.060	<0.059	<0.058	<0.058	<0.054	<0.054	<0.053	uA	uA	uA
Chloroform		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.44	4.1	15
Chloromethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.98	170	500
2-Chlorotoluene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	3.5	910	910
4-Chlorotoluene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	3.7	250	250
1,2-Dibromo-3-chloropropane†		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0018	<0.0018	<0.0018	0.0017	0.076	0.69
Dibromochloromethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.43	9.5	33
1,2-Dibromoethane (EDB)†		<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00030	<0.00030	<0.00030	0.00028	0.48	1.7
Dibromomethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.039	35	110
1,2-Dichlorobenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	12	380	380
1,3-Dichlorobenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	uA	uA	uA
1,4-Dichlorobenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	1.4	34	120
trans-1,4-Dichloro-2-butene†		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.00011	0.097	0.35
Dichlorodifluoromethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	5.7	130	400
1,1-Dichloroethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.14	46	170
1,2-Dichloroethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.028	6	22
1,1-Dichloroethene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.05	340	1,100
cis-1,2-Dichloroethene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.41	220	2,000
trans-1,2-Dichloroethene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.59	210	690
1,2-Dichloropropane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.033	13	47
1,3-Dichloropropane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	2	1,500	1,500
2,2-Dichloropropane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	uA	uA	uA
1,1-Dichloropropene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	uA	uA	uA
1,3-Dichloropropene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.029	24	83
Ethylbenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	16	76	270
Ethyl methacrylate		<0.116	<0.119	<0.118	<0.116	<0.116	<0.108	<0.109	<0.106	2	1,100	1,100
Hexachloro-1,3-butadiene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.1	85	220
n-Hexane		<0.012	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.011	34	140	140
2-Hexanone		<0.012	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.011	0.16	290	1,400
Iodomethane		<0.012	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.011	uA	uA	uA
Isopropylbenzene (Cumene)		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	13	270	270
p-Isopropyltoluene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	uA	uA	uA
Methylene chloride		<0.023	<0.024	<0.024	<0.023	<0.023	<0.022	<0.022	<0.021	0.025	500	3,100
4-Methyl-2-pentanone (MIBK)		<0.012	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.011	4.5	3,400	3,400
Methyl-tert-butyl-ether		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.54	600	2,200
n-Propylbenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	20	260	260
Styrene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	2.2	870	870
1,1,1,2-Tetrachloroethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.038	27	93
1,1,2,2-Tetrachloroethane†		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.0052	7.8	28
Tetrachloroethene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.045	120	170
Toluene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	14	820	820
1,2,3-Trichlorobenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.31	69	490
1,2,4-Trichlorobenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	4.1	87	270
1,1,1-Trichloroethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	1.4	640	640
1,1,2-Trichloroethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.032	2.2	6.8
Trichloroethene (TCE)		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.036	6.2	20
Trichlorofluoromethane		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	14	1,100	1,200
1,2,3-Trichloropropane†		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.000056	0.07	0.95
1,2,4-Trimethylbenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	0.44	87	220
1,3,5-Trimethylbenzene		<0.006	<0.006	<0.006	<0.006	<0.006	<0.005	<0.005	<0.005	2.5	180	180
Vinyl acetate		<0.012	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.011	1.7	1,400	2,800
Vinyl chloride		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.014	0.84	17
Xylene, Total		<0.012	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.011	200	260	260

Analytical results reported in parts per million (ppm)

VOCs = Volatile organic compounds

Depth in feet below grade

PID - Vapor screening levels obtained using a Mini Rae 3000 photoionization detector (reported in ppm)

*HS-1 = Duplicate sample collected from SW-2 on January 26, 2015

RCG = Remediation Closure Guide

SMTG = Soil Migration to Groundwater screening level

RDC = Residential Direct Contact screening level

C/IDC = Commercial/Industrial Direct Contact screening level

†Detection limit exceeds one or more screening level

NA = Not applicable

uA = Screening level not established for this parameter

TABLE 2
Soil Analytical Results - PAHs and Lead
Former White River Truck Repair
11940 N US 31
Edinburgh, Indiana

Sample ID	Depth	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Lead
SW-1	4'	1/26/15	<0.38	<0.38	<0.38	<0.38	<0.078	<0.38	<0.38	<0.38	<0.38	<0.078	<0.38	<0.38	<0.38	<0.38	<0.38	<0.078	<0.35	<0.38	20
SW-2	4'	1/26/15	<0.39	<0.39	<0.39	<0.39	<0.080	<0.39	<0.39	<0.39	<0.39	<0.080	<0.39	<0.39	<0.39	<0.39	<0.39	<0.080	<0.36	<0.39	12
		*HS-1	<0.39	<0.39	<0.39	<0.39	<0.079	<0.39	<0.39	<0.39	<0.39	<0.079	<0.39	<0.39	<0.39	<0.39	<0.39	<0.079	<0.35	<0.39	15
SW-3	4'	1/26/15	<0.38	<0.38	<0.38	<0.38	<0.078	<0.38	<0.38	<0.38	<0.38	<0.078	<0.38	<0.38	<0.38	<0.38	<0.38	<0.078	<0.35	<0.38	8.7
SW-4	4'	1/26/15	<0.38	<0.38	<0.38	<0.38	<0.078	<0.38	<0.38	<0.38	<0.38	<0.078	<0.38	<0.38	<0.38	<0.38	<0.38	<0.078	<0.35	<0.38	5.0
UB-1	8'	1/26/15	<0.35	<0.35	<0.35	<0.35	<0.072	<0.35	<0.35	<0.35	<0.35	<0.072	<0.35	<0.35	<0.35	<0.35	<0.35	<0.072	<0.32	<0.35	3.8
UB-2	8'	1/26/15	<0.36	<0.36	<0.36	<0.36	<0.073	<0.36	<0.36	<0.36	<0.36	<0.073	<0.36	<0.36	<0.36	<0.36	<0.36	<0.073	<0.33	<0.36	8.7
EM-1	NA	1/26/15	<0.35	<0.35	<0.35	<0.35	<0.071	<0.35	<0.35	<0.35	<0.35	<0.071	<0.35	<0.35	<0.35	<0.35	<0.35	<0.071	<0.32	<0.35	4.4
RCG SMTG			82	uA	860	2.1	4.7	7	uA	68	210	2.2	1,400	81	40	1	2.8	0.092	uA	190	270
RCG RDC			4,800	uA	24,000	2.1	0.21	2.1	uA	21	210	0.21	3,200	3,200	2.1	220	320	50	uA	2,400	560
RCG C/IDC			33,000	uA	100,000	21	2.1	21	uA	210	2,100	2.1	22,000	22,000	21	530	2,200	180	uA	17,000	800

Analytical results reported in parts per million (ppm)

PAHs = Polynuclear aromatic hydrocarbons

Depth in feet below grade

*HS-1 = Duplicate sample collected from SW-2 on January 26, 2015

RCG = Remediation Closure Guide

SMTG = Soil Migration to Groundwater screening level

RDC = Residential Direct Contact screening level

C/IDC = Commercial/Industrial Direct Contact screening level

NA = Not applicable

uA = Screening level not established for this parameter

TABLE 3
Groundwater Analytical Results - VOCs
Former White River Truck Repair
11940 N US 31
Edinburgh, Indiana

Analyte	Sample ID	WT-1	RCG
	Date	2/28/15	RGT
Acetone		<100	12,000
Acrolein†		<1	0.041
Acrylonitrile		<0.45	0.45
Benzene		<5	5
Bromobenzene		<5	54
Bromochloromethane		<5	83
Bromodichloromethane		<5	80
Bromoform		<5	80
Bromomethane		<5	7
n-Butanol		<50	1,500
2-Butanone (MEK)		<10	4,900
n-Butylbenzene		<5	780
sec-Butylbenzene		<5	1,600
tert-Butylbenzene		<5	510
Carbon Disulfide		<5	720
Carbon Tetrachloride		<5	5
Chlorobenzene		<5	100
Chloroethane		<5	uA
2-Chloroethylvinylether		<50	uA
Chloroform		<5	80
Chloromethane		<5	190
2-Chlorotoluene		<5	180
4-Chlorotoluene		<5	190
1,2-Dibromo-3-chloropropane†		<1	0.2
Dibromochloromethane		<5	80
1,2-Dibromoethane (EDB)*		<1	0.05
Dibromomethane		<5	7.9
1,2-Dichlorobenzene		<5	600
1,3-Dichlorobenzene		<5	uA
1,4-Dichlorobenzene		<5	75
trans-1,4-Dichloro-2-butene†		<1	0.012
Dichlorodifluoromethane		<5	190
1,1-Dichloroethane		<5	24
1,2-Dichloroethane		<5	5
1,1-Dichloroethene		<5	7
cis-1,2-Dichloroethene		<5	70
trans-1,2-Dichloroethene		<5	100
1,2-Dichloropropane		<5	5
1,3-Dichloropropane		<5	290
2,2-Dichloropropane		<5	uA
1,1-Dichloropropene		<5	uA
1,3-Dichloropropene		<4.1	4.1
Ethylbenzene		<5	700
Ethyl methacrylate		<100	420
Hexachloro-1,3-butadiene		<2.6	2.6
n-Hexane		<10	250
2-Hexanone		<10	34
Iodomethane		<10	uA
Isopropylbenzene (Cumene)		<5	390
p-Isopropyltoluene		<5	uA
Methylene chloride		<5	5
4-Methyl-2-pentanone (MIBK)		<10	1,000
Methyl-tert-butyl-ether		<5	120
n-Propylbenzene		<5	530
Styrene		<5	100
1,1,1,2-Tetrachloroethane		<5	5
1,1,2,2-Tetrachloroethane		<0.66	0.66
Tetrachloroethene		<5	5
Toluene		<5	1,000
1,2,3-Trichlorobenzene		<5	5.2
1,2,4-Trichlorobenzene		<5	70
1,1,1-Trichloroethane		<5	200
1,1,2-Trichloroethane		<5	5
Trichloroethene (TCE)		<5	5
Trichlorofluoromethane		<5	1,100
1,2,3-Trichloropropane†		<1	0.0065
1,2,4-Trimethylbenzene		<5	15
1,3,5-Trimethylbenzene		<5	87
Vinyl acetate		<10	410
Vinyl chloride		<2	2
Xylene, Total		<10	10,000

Results presented in parts per billion (ppb)

VOCs = Volatile organic compounds

RCG = Remediation Closure Guide

RGT = Residential Groundwater Tap screening level

†Detection limit exceeds one or more screening level

uA = Screening level not established for this parameter

TABLE 4
Groundwater Analytical Results - PAHs and Total Lead
Former White River Truck Repair
11940 N US 31
Edinburgh, Indiana

Analyte	Sample ID	WT-1	RCG
	Date	2/28/15	RGT
Acenaphthene		<1.0	400
Acenaphthylene		<1.0	uA
Anthracene		<0.10	1,300
Benzo(a)anthracene		<0.10	0.29
Benzo(a)pyrene		<0.10	0.2
Benzo(b)fluoranthene		<0.10	0.29
Benzo(g,h,i)perylene		<0.10	uA
Benzo(k)fluoranthene		<0.10	2.9
Chrysene		<0.10	29
Dibenzo(a,h)anthracene		<0.029	0.029
Fluoranthene		<1.0	630
Fluorene		<1.0	220
Indeno(1,2,3-cd)pyrene		<0.022	0.29
1-Methylnaphthalene		<1.0	9.7
2-Methylnaphthalene		<1.0	27
Naphthalene		<1.0	1.4
Phenanthrene		<1.0	uA
Pyrene		<1.0	87
Lead, Total		<10	15

Results presented in parts per billion (ppb)

PAHs = Polynuclear aromatic hydrocarbons

RCG = Remediation Closure Guide

RGT = Residential Groundwater Tap screening level

uA = Screening level not established for this parameter

Appendix C

Notification for Underground Storage Tanks





NOTIFICATION FOR UNDERGROUND STORAGE TANKS

State Form 45223 (R5 / 1-14)

RETURN COMPLETED FORMS TO:
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY, UST SECTION
100 N. Senate Avenue
Indianapolis, IN 46204-2251
UST: (317) 234-4112; Release Reporting: (317) 232-8900

13779

:Facility ID Number

:Owner ID Number

Page: 1 of 4

Notification is required by Federal and State laws for all storage tanks that are operational or have been used to store regulated substances after January 1, 1974. The information requested is required by Indiana Code 329 IAC 9, as amended. Specific detailed instructions for the completion of this form may be obtained by contacting the UST Section at the above address.

Instructions for this form can be found at http://www.in.gov/idem/files/form_ust_notification_instructions.doc

A TYPE OF NOTIFICATION

THIS NOTIFICATION FORM PROVIDES INFORMATION FOR (CHECK ALL THAT APPLY.):

- | | | |
|---|--|---|
| <input type="checkbox"/> A NEW FACILITY | <input type="checkbox"/> AN ADDRESS CHANGE | <input type="checkbox"/> A TEMPORARY CLOSURE |
| <input type="checkbox"/> A NEW OWNER | <input type="checkbox"/> A CHANGE OF OWNERSHIP | <input type="checkbox"/> A REQUEST FOR CLOSURE |
| <input type="checkbox"/> A NEW TANK | <input type="checkbox"/> A CHANGE IN SERVICE | <i>Attach workplan for in-place closure.</i> |
| <input type="checkbox"/> A SYSTEM UPGRADE | <input type="checkbox"/> OTHER _____ | <input checked="" type="checkbox"/> A PERMANENT CLOSURE |

B FACILITY LOCATION C FACILITY OPERATOR

FACILITY NAME Former White River Truck Repair		OPERATOR NAME	
FACILITY ADDRESS (number and street) 11940 North US Highway 31		OPERATOR ADDRESS (number and street)	
CITY Edinburgh	STATE Indiana	CITY	STATE
ZIP CODE 46124	TELEPHONE NUMBER	ZIP CODE	TELEPHONE NUMBER
COUNTY Bartholomew	GPS LOCATION (UTM) 16 S 589132 4351775	FEDERAL ID NUMBER	EMAIL ADDRESS

D PROPERTY OWNER E UST OWNER

PROPERTY OWNER NAME L&Q Realty, LLC		UST OWNER NAME ([] Mark if same as Property Owner.)	
PROPERTY OWNER ADDRESS (number and street) 30 West 11th Street		UST OWNER ADDRESS (number and street)	
CITY Anderson	STATE Indiana	CITY	STATE
ZIP CODE 46016	TELEPHONE NUMBER (765) 643-3016	ZIP CODE	TELEPHONE NUMBER
FEDERAL ID NUMBER 20-3765045	TAX ID NUMBER	FEDERAL ID NUMBER	TAX ID NUMBER
EFFECTIVE DATE OF OWNERSHIP (mm/dd/yy) 12/09/2014	EMAIL ADDRESS tmatthews@rickers.net	EFFECTIVE DATE OF OWNERSHIP (mm/dd/yy)	EMAIL ADDRESS

F CONTACT AT UST LOCATION

NAME OF CONTACT PERSON AT UST LOCATION N/A		NUMBER OF USTs AT THIS LOCATION 0
JOB TITLE N/A	TELEPHONE NUMBER	NUMBER OF PAGES ATTACHED TO THIS 3

G CERTIFICATION OF FINANCIAL RESPONSIBILITY

I am familiar with the requirements for Financial Responsibility under 329 IAC 9-8 and have read the instructions for this form. I have copied only the bold and underlined text from Section G of the instructions in the box below that describes the type of Financial Responsibility I have for this site and I understand that I must produce evidence of this upon request.

TITLE	NAME	SIGNATURE	DATE (month / day / year)

H THIRTY (30) DAY REQUEST FOR UST CLOSURE

To request a UST closure, mark "A Request for Closure" in Section A, Type of Notification. Complete the entire form as with other types of notifications and fill in the requested information below.

PROPOSED CONTRACTOR		LUST INCIDENT INFORMATION	
CONTRACTOR COMPANY		LUST INCIDENT NUMBER (IF APPLICABLE)	
CONTRACTOR NAME	CERTIFICATION NUMBER	DATE INCIDENT REPORTED (month / day / year)	
STREET ADDRESS (number and street)		<p>*NOTE: Any UST closures must be performed by persons certified by the Indiana State Fire Marshal. City/County Fire Departments, the Indiana State Fire Marshal, and IDEM's UST Section must be notified 14 days prior to closure. Please report to the Leaking Underground Storage Tank Section at (317) 232-8900 if signs of soil or groundwater contamination are observed. Indiana State Fire Marshal (317) 232-2222</p>	
CITY	STATE		
ZIP CODE	TELEPHONE NUMBER		

I CONTRACTOR COMPLIANCE CERTIFICATION: ATTACH AS-BUILT UST PLANS

OATH: I certify that the information concerning installation, testing, upgrade, closure, removal and change-in-service provided in this notification is true and correct to the best of my knowledge.

NAME OF CONTRACTOR/CONSULTANT Doug Woods	NAME OF COMPANY SCS Environmental Contracting	AS-BUILTS ATTACHED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
SIGNATURE (IN INK - NO PHOTOCOPIES WILL BE ACCEPTED.) 	CERTIFICATION NUMBER UC2000606737	DATE (month / day / year)

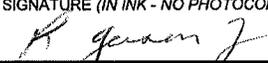
J OPERATOR CERTIFICATION

OATH: I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

NAME OF OPERATOR OR AUTHORIZED REPRESENTATIVE	NAME OF COMPANY	LEASE ATTACHED <input type="checkbox"/> Yes <input type="checkbox"/> No
SIGNATURE (IN INK - NO PHOTOCOPIES WILL BE ACCEPTED.)	DRIVERS LICENSE NUMBER	DATE (month / day / year)

K PROPERTY OWNER CERTIFICATION

OATH: I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

NAME OF PROPERTY OWNER OR AUTHORIZED REPRESENTATIVE Jay Ricker	NAME OF COMPANY L&Q Realty, LLC	DEED ATTACHED <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SIGNATURE (IN INK - NO PHOTOCOPIES WILL BE ACCEPTED.) 	DRIVERS LICENSE NUMBER NA	DATE (month / day / year) 2/24/2015

L UST OWNER CERTIFICATION

OATH: I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

NAME OF UST OWNER OR AUTHORIZED REPRESENTATIVE	NAME OF COMPANY	OWNER DOC ATTACHED <input type="checkbox"/> Yes <input type="checkbox"/> No
SIGNATURE (IN INK - NO PHOTOCOPIES WILL BE ACCEPTED.)	DRIVERS LICENSE NUMBER	DATE (month / day / year)

M NUMBER OF UNDERGROUND STORAGE TANKS

Complete a column for each tank. Attach additional sheets when number of USTs exceeds six (6).

SEQUENTIAL UST NUMBER	6					
OWNER-SPECIFIED UST NUMBER	1					
IS THIS A COMPARTMENTED UST? <small>(mm/dd/yyyy) DATE INSTALLED</small>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
<small>(gallons) CAPACITY</small>	Unknown 550					

N STATUS OF UNDERGROUND STORAGE TANKS

1. CURRENTLY IN USE <small>(mm/dd/yyyy) Date Brought Into Use</small>	<input type="checkbox"/>					
2. TEMPORARILY OUT OF USE <small>(mm/dd/yyyy) Date Last Used</small>	<input type="checkbox"/>					
3. PERMANENTLY OUT OF USE <small>(mm/dd/yyyy) Date Removed From Ground</small> <small>(mm/dd/yyyy) Date Filled In-Place</small> <small>(mm/dd/yyyy) Date of Change-in-Service</small>	01/26/2015					
4. REQUESTING CLOSURE Removal Closure In-Place Closure	<input type="checkbox"/> <input type="checkbox"/>					

O SUBSTANCE CURRENTLY OR LAST STORED IN USTs

1. PETROLEUM						
Gasoline	<input type="checkbox"/>					
Diesel	<input type="checkbox"/>					
Used Oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>					
Biofuel%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
<small>(specify) Other</small>						
2. HAZARDOUS SUBSTANCE CERCLA Substance Chemical Abstract Service Number Mixture of Substances	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					

P UST CONSTRUCTION MATERIAL

Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Fiberglass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Steel with Fiberglass Jacket) Clad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double-Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product stored in tank is compatible <small>(specify) Other</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q UST CORROSION PROTECTION

Interior Lining <small>(mm/dd/yyyy) Date Liner Installed</small>	<input type="checkbox"/>					
(Galvanic) Sacrificial Anodes	<input type="checkbox"/>					
Impressed Current <small>(mm/dd/yyyy) Date Anodes Installed</small>	<input type="checkbox"/>					
<small>(specify) Other</small>						

Complete a column for each UST. Attach additional sheets when number of USTs exceeds six (6).

SEQUENTIAL UST NUMBER	6					
OWNER-SPECIFIED UST NUMBER	1					

R PIPING CONSTRUCTION AND PROTECTION						
Steel	<input type="checkbox"/>					
Fiberglass	<input type="checkbox"/>					
Double-Walled	<input type="checkbox"/>					
(Galvanic) Sacrificial Anodes	<input type="checkbox"/>					
Impressed Current	<input type="checkbox"/>					
Product stored in tank is compatible	<input type="checkbox"/>					
(specify) Other	No Piping					

S UST RELEASE DETECTION						
Automatic Tank Gauging	<input type="checkbox"/>					
Interstitial Monitoring	<input type="checkbox"/>					
Interstitial Monitoring / Barrier	<input type="checkbox"/>					
Statistical Inventory Reconciliation	<input type="checkbox"/>					
Manual Tank Gauging	<input type="checkbox"/>					
Another Method						

T PIPING TYPE AND RELEASE DETECTION						
Suction	European Suction	<input type="checkbox"/>				
	American Suction	<input type="checkbox"/>				
Pressurized	Auto Leak Detector	<input type="checkbox"/>				
	Flow Restrictor	<input type="checkbox"/>				
	Flow Shut Off	<input type="checkbox"/>				
Must Check One.	Audible Alarm	<input type="checkbox"/>				
	Automatic Tank Gauge	<input type="checkbox"/>				
	SIR	<input type="checkbox"/>				
Must Check One.	Interstitial Monitoring	<input type="checkbox"/>				
	Line Tightness Testing	<input type="checkbox"/>				

U SPILL AND OVERFILL PREVENTION EQUIPMENT						
Catchment Basins	<input type="checkbox"/>					
Auto Shutoff Devices	<input type="checkbox"/>					
Overfill Alarm	<input type="checkbox"/>					
Ball Float Valves	<input type="checkbox"/>					
Under-Dispenser Containment Sumps	<input type="checkbox"/>					
(Specify below) Another Method						

V COMPLIANCE SPECIFIC TO THIS INSTALLATION, UPGRADE OR CLOSURE						
Contractor certified by IDHS-DFBS	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Work inspected by IDHS-DFBS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Installer certified by manufacturer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work inspected by registered PE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Specify below) Another Method						

LIMITED CORPORATE WARRANTY DEED

THIS INDENTURE WITNESSETH, that HHH-TS PROPERTIES, LLC ("Grantor"), an Indiana limited liability company CONVEYS, WARRANTS and TRANSFERS to L&Q REALTY, LLC, an Indiana limited liability company, for the sum of Ten Dollars and 00/100 Dollars (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the real estate in Bartholomew County, State of Indiana described on Exhibit A, attached hereto and by reference made a part hereof (the "Real Estate");

TOGETHER WITH AND SUBJECT TO: (i) real estate taxes and assessments assessed against the Real Estate on and after the date hereof, and (ii) any and all easements, covenants, restrictions, agreements, encumbrances, rights-of-way and other matters of record.

The undersigned person or persons executing this deed on behalf of Grantor represents and certifies that he is duly authorized and fully empowered to execute and deliver this deed; that Grantor has full capacity to convey the real estate described herein; and that all necessary action for the making of such conveyance has been taken and done.

IN WITNESS WHEREOF, Grantor has caused this Limited Corporate Warranty Deed to be executed this 2 day of December, 2014.

"Grantor"

HHH-TS PROPERTIES, LLC

By: *H. Jill Fivecoat*

Printed: H. Jill Fivecoat

Title: Member

[Notary on following page]

Missouri
STATE OF ~~INDIANA~~)
) SS:
COUNTY OF St. Louis)

Before me, a Notary Public in and for said County and State, personally appeared H. Jill Fivecoat member of HHH-TS Properties, LLC, who acknowledged signing the foregoing Limited Corporate Warranty Deed as his free and voluntary act and deed, for the uses and purposes herein set forth.

Witness my hand and Seal this 2 day of December, 2014.

My Commission Expires:
9-29-18

Dan Bohn
Notary Public

My County of Residence:
St Louis

Dan Bohn
Printed Name



Return Recorded Deed and send tax statements to:
Also, Grantee's Address:

L&Q Realty, LLC
30 West 11th Street
Anderson, Indiana 46016

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law. Stephanie T. Eckerle

This instrument was prepared by Stephanie T. Eckerle.



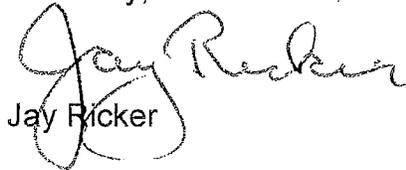
Fast & Friendly Customer Service • Convenient & Clean Locations

November 22, 2010

To Whom It May Concern:

We authorize Mr. Jason Lenz of Creek Run LLC Environmental Engineering to act as our agent and to further sign, on our behalf, any and all documents that might pertain to underground storage tank systems owned by Ricker Oil Company, Inc.

Sincerely,


Jay Ricker

Appendix D

IDEM Wellhead Protection Area Proximity Determination



Wellhead Proximity Determinator



Wellhead Proximity Determinator

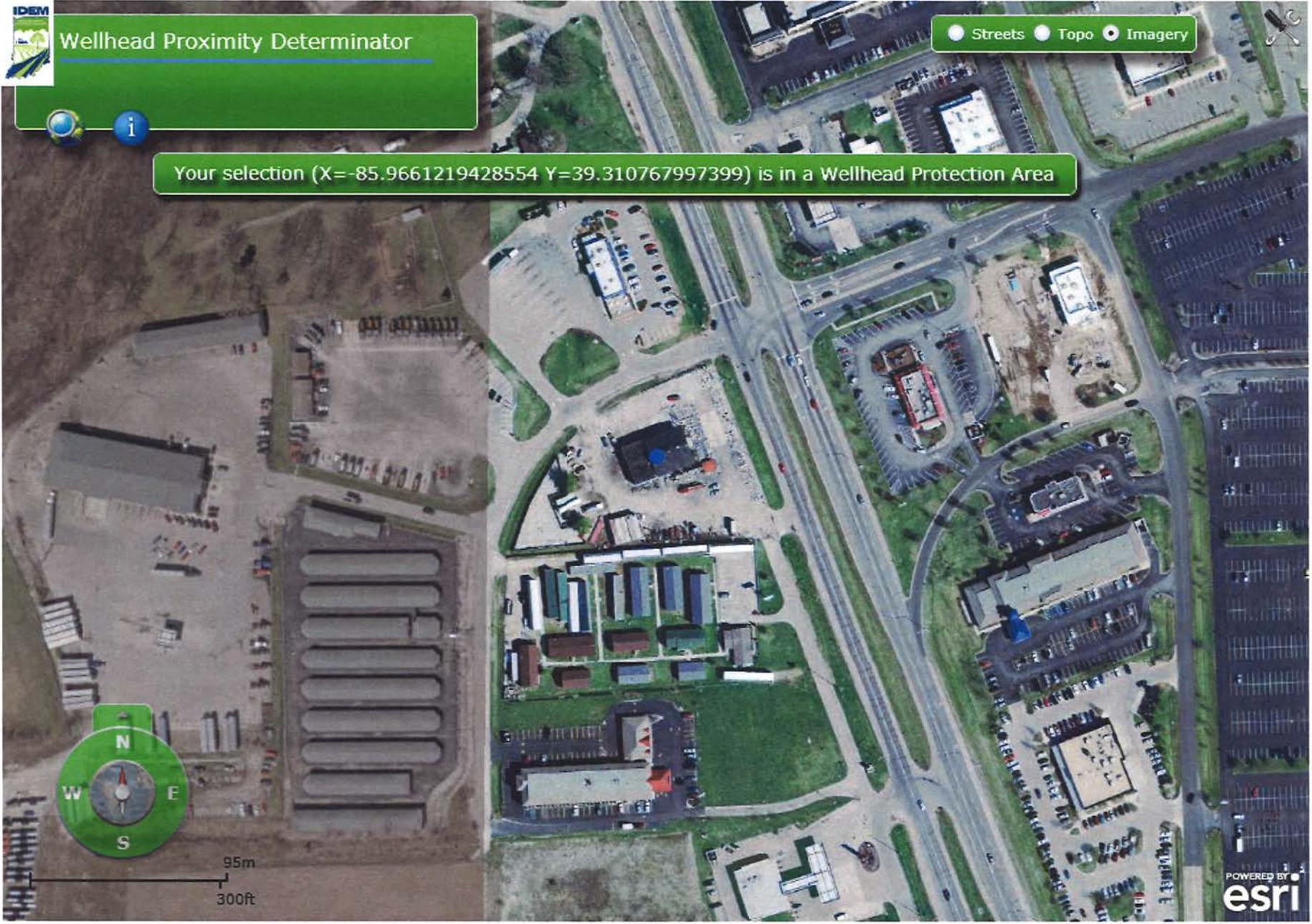
Streets Topo Imagery



Your selection (X=-85.9661219428554 Y=39.310767997399) is in a Wellhead Protection Area



95m
300ft



Appendix E

Soil Classification Map



Soil Map—Bartholomew County, Indiana



Map Scale: 1:803 if printed on A landscape (11" x 8.5") sheet.

0 10 20 40 60 Meters

0 35 70 140 210 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

5/8/2014
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bartholomew County, Indiana
Survey Area Data: Version 15, Dec 10, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 17, 2011—Apr 9, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Bartholomew County, Indiana (IN005)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UkqA	Urban land-Nineveh complex, 0 to 2 percent slopes	2.0	100.0%
Totals for Area of Interest		2.0	100.0%

Bartholomew County, Indiana

UkqA—Urban land-Nineveh complex, 0 to 2 percent slopes

Map Unit Setting

Elevation: 400 to 1,020 feet

Mean annual precipitation: 36 to 43 inches

Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 150 to 180 days

Map Unit Composition

Urban land: 50 percent

Nineveh and similar soils: 47 percent

Minor components: 3 percent

Description of Urban Land

Setting

Landform: Stream terraces

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 8

Other vegetative classification: Trees/Timber (Woody Vegetation)

Description of Nineveh

Setting

Landform: Stream terraces

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loamy outwash over sandy and gravelly outwash

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: 24 to 40 inches to strongly contrasting textural stratification

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 55 percent

Available water capacity: Moderate (about 6.4 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 2s

Hydrologic Soil Group: B

*Other vegetative classification: Mixed/Transitional (Mixed Native
Vegetation)*

Typical profile

0 to 8 inches: Sandy loam

8 to 13 inches: Loam

13 to 24 inches: Clay loam

24 to 33 inches: Gravelly clay loam

33 to 36 inches: Gravelly clay loam

36 to 60 inches: Stratified very gravelly coarse sand to sand

Minor Components

Sleeth, drained

Percent of map unit: 3 percent

Landform: Stream terraces, channels on stream terraces

Landform position (two-dimensional): Foothlope

Landform position (three-dimensional): Tread

Other vegetative classification: Trees/Timber (Woody Vegetation)

Data Source Information

Soil Survey Area: Bartholomew County, Indiana

Survey Area Data: Version 15, Dec 10, 2013

Appendix F

Site Photographs





Location of used oil UST prior to removal



Location of groundwater sample WT-1 collected from temporary well placed in boring B-6



Site following UST closure

Appendix G

Soil Boring Log





ENVIRONMENTAL ENGINEERING
Taking Pride In What We Do!
 765-728-8051 www.creekrun.com

BORING LOG: **B-6**

Hardness Scale (tsf)	
<0.25	Very Soft
0.25-0.50	Soft
0.50-1.0	Medium
1.0-2.0	Stiff
2.0-4.0	Very Stiff
>4.0	Hard

Unless Noted Otherwise:
 Headspace readings measured using a Mini Rae 2000 or 3000 photoionization detector
 Hardness determined using a pocket penetrometer

Abbreviations
 ND = Non Detect
 NR = No Recovery
 Unc = Unconsolidated

CLIENT:	Ricker Oil Company	DATE DRILLED:	1-28-15
PROJECT NAME:	Former White River Truck Repair	DRILL RIG:	Geoprobe 6610 DT
ADDRESS:	11940 US 31	BORING DIAMETER:	2 Inches
CITY:	Edinburgh	STATE:	IN
FIELD SUPERVISOR:	Ryan Peterson	BORING DEPTH:	26 Feet
DRILLER:	Derrick Brady #4001 WD	DEPTH TO WATER:	20 Feet
		GROUND ELEVATION:	- Feet

USCS Symbol	Lithologic Description	Depth	Sample	Soil Recovery Percentage	Headspace (ppm)	Hardness (tsf)	Well Completion Diagram
SM	(SM) Sand, medium grained, yellowish brown (10YR 5/4), dry	5		50	ND	Unc	
	Fill material, clay, sand, silt, moist			50	ND	3.0	
SW	(SW) Sand, medium to coarse grained, few fine gravel, yellowish brown (10YR 5/4), moist	10		60	ND	Unc	
	becomes sand, fine to medium grained			60	ND	Unc	
				60	ND	Unc	
	70			ND	Unc		
	70			ND	Unc		
	70			ND	Unc		
	9*0			ND	Unc		
	90			ND	Unc		
90	ND	Unc					
SW	becomes wet	20		90	ND	Unc	
				90	ND	Unc	
		25		90	ND	Unc	

NOTES: Temporary Well Set
 B-6 (18-20) liner retrieved at 16:27 sample collected at 16:30

Appendix H

Laboratory Analytical Reports and Chain of Custody Forms





ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Mr. Chris Parks
Creek Run
P.O. Box 114
Montpelier, IN 47359

February 2, 2015

ENVision Project Number: 2015-186
Client Project Name: Edinburgh, 11940 N US 31

Dear Mr. Parks,

Please find the attached analytical report for the samples received January 26, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data. Metals analyses are not included in the NELAC certification.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Cheryl A. Crum".

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

PA DEP Lab Code: 68-04846 NELAP Cert:004





Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 013015CVS
Client Sample ID: UB-1
Envision Sample Number: 15-1333
Sample Matrix: soil

Sample Collection Date/Time: 1/26/15 13:00
Sample Received Date/Time: 1/26/15 14:50

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.108	0.108	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.054	0.054	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.054	0.054	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.108	0.108	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	111%		
1,2-Dichloroethane-d4 (surrogate)	112%		
Toluene-d8 (surrogate)	90%		
4-bromofluorobenzene (surrogate)	83%		
Analysis Date/Time:	1-31-15/03:31		
Analyst Initials	tjg		
Percent Solids:	93%		

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS
Client Sample ID: UB-1 **Sample Collection Date/Time:** 1/26/15 13:00
Envision Sample Number: 15-1333 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.072	0.072	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.072	0.072	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
1-methylnaphthalene	< 0.35	0.35	
2-methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.072	0.072	
Phenanthrene	< 0.32	0.32	
Pyrene	< 0.35	0.35	
Nitrobenzene-d14 (surrogate)	49%		
2-Fluorobiphenyl (surrogate)	52%		
p-Terphenyl-d14 (surrogate)	76%		
Analysis Date/Time:	2-1-15/14:44		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		

Percent Solids 93%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: UB-1 **Sample Collection Date/Time:** 1/26/15 13:00
ENVISSION Sample Number: 15-1333 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	3.8	2	
Percent Solids	93%		

Analysis Date/Time: 1-28-15/19:24
Analyst Initials: gjd
Date Digested: 1/27/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 012815icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186

Client Sample ID: UB-1 **Sample Collection Date/Time:** 1/26/15 13:00
Envision Sample Number: 15-1333 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	7.0%		EPA 1684
Percent Solids	93.0%		EPA 1684
Analysis Date:	1/29/15		
Analyst Initials	bg		



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 013015CVS

Client Sample ID: UB-2 **Sample Collection Date/Time:** 1/26/15 13:05
Envision Sample Number: 15-1334 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.109	0.109	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.054	0.054	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.054	0.054	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Rep. Limit (mg/kg)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.109	0.109	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	106%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	1-31-15/04:26		
Analyst Initials	tjg		
Percent Solids:	92%		

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS

Client Sample ID: UB-2 **Sample Collection Date/Time:** 1/26/15 13:05
Envision Sample Number: 15-1334 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.36	0.36	
Acenaphthylene	< 0.36	0.36	
Anthracene	< 0.36	0.36	
Benzo(a)anthracene	< 0.36	0.36	
Benzo(a)pyrene	< 0.073	0.073	
Benzo(b)fluoranthene	< 0.36	0.36	
Benzo(g,h,i)perylene	< 0.36	0.36	
Benzo(k)fluoranthene	< 0.36	0.36	
Chrysene	< 0.36	0.36	
Dibenzo(a,h)anthracene	< 0.073	0.073	
Fluoranthene	< 0.36	0.36	
Fluorene	< 0.36	0.36	
Indeno(1,2,3-cd)pyrene	< 0.36	0.36	
1-methylnaphthalene	< 0.36	0.36	
2-methylnaphthalene	< 0.36	0.36	
Naphthalene	< 0.073	0.073	
Phenanthrene	< 0.33	0.33	
Pyrene	< 0.36	0.36	
Nitrobenzene-d14 (surrogate)	41%		
2-Fluorobiphenyl (surrogate)	49%		
p-Terphenyl-d14 (surrogate)	81%		
Analysis Date/Time:	2-1-15/16:03		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		
Percent Solids	92%		

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: UB-2 **Sample Collection Date/Time:** 1/26/15 13:05
Envision Sample Number: 15-1334 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	8.7	2	
Percent Solids	92%		

Analysis Date/Time: 1-28-15/19:54
Analyst Initials: gjd
Date Digested: 1/27/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 012815icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Client Sample ID: UB-2 **Sample Collection Date/Time:** 1/26/15 13:05
Envision Sample Number: 15-1334 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	8.0%		EPA 1684
Percent Solids	92.0%		EPA 1684
Analysis Date:	1/29/15		
Analyst Initials	bg		



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 013015CVS

Client Sample ID: SW-1 **Sample Collection Date/Time:** 1/26/15 13:10
Envision Sample Number: 15-1335 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.116	0.116	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.058	0.058	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.058	0.058	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.116	0.116	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	113%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	111%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	1-31-15/04:45		
Analyst Initials	tjg		

Percent Solids: 86%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS

Client Sample ID: SW-1 **Sample Collection Date/Time:** 1/26/15 13:10
Envision Sample Number: 15-1335 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Rep. Limit (mg/kg)</u>	<u>Flags</u>
Acenaphthene	< 0.38	0.38	
Acenaphthylene	< 0.38	0.38	
Anthracene	< 0.38	0.38	
Benzo(a)anthracene	< 0.38	0.38	
Benzo(a)pyrene	< 0.078	0.078	
Benzo(b)fluoranthene	< 0.38	0.38	
Benzo(g,h,i)perylene	< 0.38	0.38	
Benzo(k)fluoranthene	< 0.38	0.38	
Chrysene	< 0.38	0.38	
Dibenzo(a,h)anthracene	< 0.078	0.078	
Fluoranthene	< 0.38	0.38	
Fluorene	< 0.38	0.38	
Indeno(1,2,3-cd)pyrene	< 0.38	0.38	
1-methylnaphthalene	< 0.38	0.38	
2-methylnaphthalene	< 0.38	0.38	
Naphthalene	< 0.078	0.078	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.38	0.38	
Nitrobenzene-d14 (surrogate)	58%		
2-Fluorobiphenyl (surrogate)	60%		
p-Terphenyl-d14 (surrogate)	98%		
Analysis Date/Time:	2-1-15/16:30		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		

Percent Solids 86%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: SW-1 **Sample Collection Date/Time:** 1/26/15 13:10
Enviision Sample Number: 15-1335 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	20	2	
Percent Solids	86%		

Analysis Date/Time: 1-28-15/19:59
Analyst Initials: gjd
Date Digested: 1/27/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 012815icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Client Sample ID: SW-1 **Sample Collection Date/Time:** 1/26/15 13:10
Envision Sample Number: 15-1335 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	1/29/15		
Analyst Initials	bg		



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186
Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 013015CVS

Client Sample ID: SW-2 **Sample Collection Date/Time:** 1/26/15 13:15
Envision Sample Number: 15-1336 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.119	0.119	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.060	0.060	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.060	0.060	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.119	0.119	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	103%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	100%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	1-31-15/05:04		
Analyst Initials	tjg		
Percent Solids:	84%		

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS

Client Sample ID: SW-2 **Sample Collection Date/Time:** 1/26/15 13:15
Envision Sample Number: 15-1336 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Rep. Limit (mg/kg)</u>	<u>Flags</u>
Acenaphthene	< 0.39	0.39	
Acenaphthylene	< 0.39	0.39	
Anthracene	< 0.39	0.39	
Benzo(a)anthracene	< 0.39	0.39	
Benzo(a)pyrene	< 0.080	0.080	
Benzo(b)fluoranthene	< 0.39	0.39	
Benzo(g,h,i)perylene	< 0.39	0.39	
Benzo(k)fluoranthene	< 0.39	0.39	
Chrysene	< 0.39	0.39	
Dibenzo(a,h)anthracene	< 0.080	0.080	
Fluoranthene	< 0.39	0.39	
Fluorene	< 0.39	0.39	
Indeno(1,2,3-cd)pyrene	< 0.39	0.39	
1-methylnaphthalene	< 0.39	0.39	
2-methylnaphthalene	< 0.39	0.39	
Naphthalene	< 0.080	0.080	
Phenanthrene	< 0.36	0.36	
Pyrene	< 0.39	0.39	
Nitrobenzene-d14 (surrogate)	46%		
2-Fluorobiphenyl (surrogate)	46%		
p-Terphenyl-d14 (surrogate)	80%		
Analysis Date/Time:	2-1-15/16:56		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		
Percent Solids	84%		

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: SW-2 **Sample Collection Date/Time:** 1/26/15 13:15
ENVISSION Sample Number: 15-1336 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	12	2	
Percent Solids	84%		

Analysis Date/Time: 1-28-15/20:05
Analyst Initials: gjd
Date Digested: 1/27/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 012815icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Client Sample ID: SW-2 **Sample Collection Date/Time:** 1/26/15 13:15
Envision Sample Number: 15-1336 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	1/29/15		
Analyst Initials	bg		



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 013015CVS

Client Sample ID: SW-3 **Sample Collection Date/Time:** 1/26/15 13:20
Enviision Sample Number: 15-1337 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.116	0.116	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.058	0.058	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.058	0.058	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.116	0.116	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	102%		
1,2-Dichloroethane-d4 (surrogate)	93%		
Toluene-d8 (surrogate)	103%		
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	1-31-15/05:41		
Analyst Initials	tjg		

Percent Solids: 86%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS

Client Sample ID: SW-3 **Sample Collection Date/Time:** 1/26/15 13:20
Envision Sample Number: 15-1337 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Rep. Limit (mg/kg)</u>	<u>Flags</u>
Acenaphthene	< 0.38	0.38	
Acenaphthylene	< 0.38	0.38	
Anthracene	< 0.38	0.38	
Benzo(a)anthracene	< 0.38	0.38	
Benzo(a)pyrene	< 0.078	0.078	
Benzo(b)fluoranthene	< 0.38	0.38	
Benzo(g,h,i)perylene	< 0.38	0.38	
Benzo(k)fluoranthene	< 0.38	0.38	
Chrysene	< 0.38	0.38	
Dibenzo(a,h)anthracene	< 0.078	0.078	
Fluoranthene	< 0.38	0.38	
Fluorene	< 0.38	0.38	
Indeno(1,2,3-cd)pyrene	< 0.38	0.38	
1-methylnaphthalene	< 0.38	0.38	
2-methylnaphthalene	< 0.38	0.38	
Naphthalene	< 0.078	0.078	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.38	0.38	
Nitrobenzene-d14 (surrogate)	58%		
2-Fluorobiphenyl (surrogate)	60%		
p-Terphenyl-d14 (surrogate)	117%		
Analysis Date/Time:	2-1-15/17:22		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		

Percent Solids 86%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: SW-3 **Sample Collection Date/Time:** 1/26/15 13:20
Envision Sample Number: 15-1337 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	8.7	2	
Percent Solids	86%		

Analysis Date/Time: 1-28-15/20:10
Analyst Initials: gjd
Date Digested: 1/27/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 012815icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Client Sample ID: SW-3 **Sample Collection Date/Time:** 1/26/15 13:20
Envision Sample Number: 15-1337 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	1/29/15		
Analyst Initials	bg		



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 013015CVS

Client Sample ID: SW-4 **Sample Collection Date/Time:** 1/26/15 13:25
Envision Sample Number: 15-1338 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.116	0.116	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.058	0.058	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.058	0.058	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.116	0.116	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	

Dibromofluoromethane (surrogate)	100%
1,2-Dichloroethane-d4 (surrogate)	91%
Toluene-d8 (surrogate)	106%
4-bromofluorobenzene (surrogate)	100%
Analysis Date/Time:	1-31-15/06:00
Analyst Initials	tjg

Percent Solids: 86%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS

Client Sample ID: SW-4 **Sample Collection Date/Time:** 1/26/15 13:25
Envision Sample Number: 15-1338 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.38	0.38	
Acenaphthylene	< 0.38	0.38	
Anthracene	< 0.38	0.38	
Benzo(a)anthracene	< 0.38	0.38	
Benzo(a)pyrene	< 0.078	0.078	
Benzo(b)fluoranthene	< 0.38	0.38	
Benzo(g,h,i)perylene	< 0.38	0.38	
Benzo(k)fluoranthene	< 0.38	0.38	
Chrysene	< 0.38	0.38	
Dibenzo(a,h)anthracene	< 0.078	0.078	
Fluoranthene	< 0.38	0.38	
Fluorene	< 0.38	0.38	
Indeno(1,2,3-cd)pyrene	< 0.38	0.38	
1-methylnaphthalene	< 0.38	0.38	
2-methylnaphthalene	< 0.38	0.38	
Naphthalene	< 0.078	0.078	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.38	0.38	
Nitrobenzene-d14 (surrogate)	56%		
2-Fluorobiphenyl (surrogate)	58%		
p-Terphenyl-d14 (surrogate)	92%		
Analysis Date/Time:	2-1-15/17:49		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		
Percent Solids	86%		

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: SW-4 **Sample Collection Date/Time:** 1/26/15 13:25
Envision Sample Number: 15-1338 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	5.0	2	
Percent Solids	86%		

Analysis Date/Time: 1-28-15/20:16
Analyst Initials: gjd
Date Digested: 1/27/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 012815icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Client Sample ID: SW-4 **Sample Collection Date/Time:** 1/26/15 13:25
Envision Sample Number: 15-1338 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	1/29/15		
Analyst Initials	bg		



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 013015CVS

Client Sample ID: EM-1 **Sample Collection Date/Time:** 1/26/15 13:30
Enviision Sample Number: 15-1339 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.106	0.106	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.053	0.053	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.053	0.053	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.106	0.106	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	107%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	1-31-15/06:18		
Analyst Initials	tjg		

Percent Solids: 94%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS

Client Sample ID: EM-1 **Sample Collection Date/Time:** 1/26/15 13:30
Envision Sample Number: 15-1339 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Rep. Limit (mg/kg)</u>	<u>Flags</u>
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.071	0.071	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.071	0.071	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
1-methylnaphthalene	< 0.35	0.35	
2-methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.071	0.071	
Phenanthrene	< 0.32	0.32	
Pyrene	< 0.35	0.35	
Nitrobenzene-d14 (surrogate)	65%		
2-Fluorobiphenyl (surrogate)	70%		
p-Terphenyl-d14 (surrogate)	102%		
Analysis Date/Time:	2-1-15/18:15		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		

Percent Solids 94%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: EM-1 **Sample Collection Date/Time:** 1/26/15 13:30
Envision Sample Number: 15-1339 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	4.4	2	
Percent Solids	94%		

Analysis Date/Time: 1-28-15/20:22
Analyst Initials: gjd
Date Digested: 1/27/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 012815icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Client Sample ID: EM-1 **Sample Collection Date/Time:** 1/26/15 13:30
Envision Sample Number: 15-1339 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	6.0%		EPA 1684
Percent Solids	94.0%		EPA 1684
Analysis Date:	1/29/15		
Analyst Initials	bg		



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 013015CVS

Client Sample ID: HS-1 **Sample Collection Date/Time:** 1/26/15 12:00
Envision Sample Number: 15-1342 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.118	0.118	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.059	0.059	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.059	0.059	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.118	0.118	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	

Dibromofluoromethane (surrogate)	102%
1,2-Dichloroethane-d4 (surrogate)	97%
Toluene-d8 (surrogate)	98%
4-bromofluorobenzene (surrogate)	95%
Analysis Date/Time:	1-31-15/07:14
Analyst Initials	tjg

Percent Solids: 85%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS

Client Sample ID: HS-1 **Sample Collection Date/Time:** 1/26/15 12:00
Envision Sample Number: 15-1342 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.39	0.39	
Acenaphthylene	< 0.39	0.39	
Anthracene	< 0.39	0.39	
Benzo(a)anthracene	< 0.39	0.39	
Benzo(a)pyrene	< 0.079	0.079	
Benzo(b)fluoranthene	< 0.39	0.39	
Benzo(g,h,i)perylene	< 0.39	0.39	
Benzo(k)fluoranthene	< 0.39	0.39	
Chrysene	< 0.39	0.39	
Dibenzo(a,h)anthracene	< 0.079	0.079	
Fluoranthene	< 0.39	0.39	
Fluorene	< 0.39	0.39	
Indeno(1,2,3-cd)pyrene	< 0.39	0.39	
1-methylnaphthalene	< 0.39	0.39	
2-methylnaphthalene	< 0.39	0.39	
Naphthalene	< 0.079	0.079	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.39	0.39	
Nitrobenzene-d14 (surrogate)	54%		
2-Fluorobiphenyl (surrogate)	63%		
p-Terphenyl-d14 (surrogate)	110%		
Analysis Date/Time:	2-1-15/19:34		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		

Percent Solids 85%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: HS-1 **Sample Collection Date/Time:** 1/26/15 12:00
ENVISSION Sample Number: 15-1342 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	15	2	
Percent Solids	85%		

Analysis Date/Time: 1-28-15/20:42
Analyst Initials: gjd
Date Digested: 1/27/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 012815icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-186

Client Sample ID: HS-1 **Sample Collection Date/Time:** 1/26/15 12:00
Envision Sample Number: 15-1342 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	1/29/15		
Analyst Initials	bg		



Analytical Report

Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-186
Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 012915VW

Client Sample ID: TB-1 **Sample Collection Date/Time:** 1/26/15 11:00
Envision Sample Number: 15-1343 **Sample Received Date/Time:** 1/26/15 14:50
Sample Matrix: water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	



Analytical Report

8260 continued...

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.4	1.4	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	100%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	94%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	1-30-15/05:12		
Analyst Initials	tjg		



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 1439 Sadlier Circle West Drive
 Indianapolis, IN 46239
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 www.envisionlaboratories.com

EPA 8260 Quality Control Data

ENVISSION Batch Number: 013015CVS

<u>Method Blank (MB):</u>	<u>MB Results (ug/kg)</u>	<u>Rep Lim (ug/kg)</u>	<u>Flag</u>
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



8260 QC Continued...

<u>Method Blank (MB):</u>	<u>MB Results (ug/kg)</u>	<u>Rep Lim (ug/kg)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	91%		
Toluene-d8 (surrogate)	92%		
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	1-30-15/18:30		
Analyst Initials	tjg		



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8260 QC Continued...

<u>Laboratory Control Standard (LCS):</u>	<u>LCS Results (ug/kg)</u>	<u>LCS Conc(ug/kg)</u>	<u>% Rec</u>	<u>Flag</u>
Vinyl Chloride	52.7	50	105%	
1,1-Dichloroethene	52.3	50	105%	
trans-1,2-Dichloroethene	53.3	50	107%	
Methyl-tert-butyl ether	53.7	50	107%	
1,1-Dichloroethane	50.0	50	100%	
cis-1,2-Dichloroethene	50.9	50	102%	
Chloroform	51.2	50	102%	
1,1,1-Trichloroethane	51.3	50	103%	
Benzene	50.3	50	101%	
Trichloroethene	51.1	50	102%	
Toluene	50.9	50	102%	
1,1,1,2-Tetrachloroethane	55.1	50	110%	
Chlorobenzene	55.9	50	112%	
Ethylbenzene	55.4	50	111%	
o-Xylene	54.6	50	109%	
n-Propylbenzene	56.2	50	112%	
Dibromofluoromethane (surrogate)	95%			
1,2-Dichloroethane-d4 (surrogate)	105%			
Toluene-d8 (surrogate)	93%			
4-bromofluorobenzene (surrogate)	98%			
Analysis Date/Time:	1-30-15/18:11			
Analyst Initials	tjg			

<u>Matrix Spike/Matrix Spike Dup</u>	<u>Sample Res (ug/kg)</u>	<u>MS Res (ug/kg)</u>	<u>MSD Res (ug/kg)</u>	<u>Spk Conc</u>	<u>MSD</u>			<u>Flag</u>
				<u>(ug/kg)</u>	<u>MS Rec</u>	<u>Rec</u>	<u>% D</u>	
Vinyl Chloride	0	54.9	56.9	50	110%	114%	3.6	
1,1-Dichloroethene	0	55	53.2	50	110%	106%	3.3	
trans-1,2-Dichloroethene	0	54.4	55.4	50	109%	111%	1.8	
Methyl-tert-butyl ether	0	55.4	55.2	50	111%	110%	0.4	
1,1-Dichloroethane	0	55.7	55.8	50	111%	112%	0.2	
cis-1,2-Dichloroethene	0	51.3	51.9	50	103%	104%	1.2	
Chloroform	0	52.8	50.4	50	106%	101%	4.7	
1,1,1-Trichloroethane	0	49.8	48.4	50	100%	97%	2.9	
Benzene	0	51.2	49.6	50	102%	99%	3.2	
Trichloroethene	0	46.3	44	50	93%	88%	5.1	
Toluene	0	42.2	42.5	50	84%	85%	0.7	
1,1,1,2-Tetrachloroethane	0	58.4	56.7	50	117%	113%	3.0	
Chlorobenzene	0	55.4	51	50	111%	102%	8.3	
Ethylbenzene	0	55.3	51.6	50	111%	103%	6.9	
o-Xylene	0	46.7	47.6	50	93%	95%	1.9	
n-Propylbenzene	0	42.9	41.6	50	86%	83%	3.1	
Dibromofluoromethane (surrogate)	111%	89%	90%					
1,2-Dichloroethane-d4 (surrogate)	112%	103%	98%					
Toluene-d8 (surrogate)	90%	91%	99%					
4-bromofluorobenzene (surrogate)	83%	95%	98%					
Analysis Date/Time:	1-31-15/03:31	1-31-15/03:49	1-31-15/04:08					
Analyst Initials	tjg	tjg	tjg					
Original Sample Number Spiked:	15-1333							



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EPA 6010B Metals Quality Control Data

ENVISSION Batch Number: 012815icp

<u>Method Blank (MB):</u>	<u>MB Results (mg/kg)</u>	<u>Rep Lim (mg/kg)</u>	<u>Flag</u>
Lead	< 2	2	
Analysis Date/Time:	1-28-15/11:12		
Analyst Initials:	gjd		

<u>Laboratory Control Standard:</u>	<u>LCS Results(ppm)</u>	<u>LCS Conc(ppm)</u>	<u>% Rec</u>	<u>Flag</u>
Lead	0.50	0.50	100%	
Analysis Date/Time:	1-28-15/11:07			
Analyst Initials:	gjd			

<u>Matrix Spike/Matrix Spike Dup:</u>	<u>Smpl Results(ppm)</u>	<u>MS Res(ppm)</u>	<u>MSD Res(ppm)</u>	<u>Spk Conc(ppm)</u>	<u>MS Rec</u>	<u>MSD Rec</u>	<u>% D</u>	<u>Flag</u>
Lead	0.07	0.29	0.30	0.25	88%	92%	4.444	
Original Sample Number Spiked:	15-1333	15-1333	15-1333					
Analysis Date/Time:	1-28-15/19:24	1-28-15/19:31	1-28-15/19:38					
Analyst Initials:	gjd	gjd	gjd					



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EPA 8270 PAH Quality Control Data

ENVision Batch Number: 012815PS3

Method Blank (MB):	Method Blank Results (mg/kg)	Reporting Limit (mg/kg)	Flag
Acenaphthene	< 0.33	0.33	
Acenaphthylene	< 0.33	0.33	
Anthracene	< 0.33	0.33	
Benzo(a)anthracene	< 0.33	0.33	
Benzo(a)pyrene	< 0.067	0.067	
Benzo(b)fluoranthene	< 0.33	0.33	
Benzo(g,h,i)perylene	< 0.33	0.33	
Benzo(k)fluoranthene	< 0.33	0.33	
Chrysene	< 0.33	0.33	
Dibenzo(a,h)anthracene	< 0.067	0.067	
Fluoranthene	< 0.33	0.33	
Fluorene	< 0.33	0.33	
Indeno(1,2,3-cd)pyrene	< 0.33	0.33	
2-methylnaphthalene	< 0.33	0.33	
Naphthalene	< 0.067	0.067	
Phenanthrene	< 0.30	0.30	
Pyrene	< 0.33	0.33	
Nitrobenzene-d5 (surrogate)	38%		
2-Fluorobiphenyl (surrogate)	41%		
p-Terphenyl-d14 (surrogate)	69%		
Analysis Date/Time	2-1-15/13:25		
Analyst Initials	ajg		
Date Extracted	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume	1.0 mL		

LCS	LCS Results	LCS Concentration	LCS Recovery	Flag
Acenaphthene	41.8	50	84%	
Acenaphthylene	39.1	50	78%	
Anthracene	42.6	50	85%	
Benzo(a)anthracene	42.1	50	84%	
Benzo(a)pyrene	46.6	50	93%	
Benzo(b)fluoranthene	48.8	50	98%	
Benzo(g,h,i)perylene	40.8	50	82%	
Benzo(k)fluoranthene	46.8	50	94%	
Chrysene	44.5	50	89%	
Dibenzo(a,h)anthracene	47.8	50	96%	
Fluoranthene	39.0	50	78%	
Fluorene	43.1	50	86%	
Indeno(1,2,3-cd)pyrene	46.6	50	93%	
2-methylnaphthalene	40.2	50	80%	
Naphthalene	40.5	50	81%	
Phenanthrene	43.5	50	87%	
Pyrene	52.4	50	105%	
Nitrobenzene-d5 (surrogate)	73%			
2-Fluorobiphenyl (surrogate)	76%			
p-Terphenyl-d14 (surrogate)	120%			
Analysis Date/Time:	2-1-15/14:18			
Analyst Initials:	ajg			
Date Extracted:	1/28/2015			
Initial Sample Weight:	30 g			
Final Volume:	1.0 mL			



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8270 QC Continued...

MS/MSD	Sample Result	MS Result	MSD Result	Spike Conc.	MS Recovery	MSD Recovery	RPD	Flag
Acenaphthene	0.00	35.9	34.9	50	71.8%	69.7%	2.9%	
Acenaphthylene	0.00	32.1	31.3	50	64.2%	62.5%	2.7%	
Anthracene	0.00	34.9	33.5	50	69.8%	67.1%	4.0%	
Benzo(a)anthracene	0.00	35.4	33.6	50	70.8%	67.2%	5.3%	
Benzo(a)pyrene	0.00	38.5	36.0	50	76.9%	72.0%	6.6%	
Benzo(b)fluoranthene	0.00	42.7	38.9	50	85.5%	77.7%	9.5%	
Benzo(g,h,i)perylene	0.00	31.6	31.1	50	63.3%	62.2%	1.8%	
Benzo(k)fluoranthene	0.00	37.9	35.6	50	75.8%	71.2%	6.3%	
Chrysene	0.00	38.3	35.3	50	76.6%	70.6%	8.1%	
Dibenzo(a,h)anthracene	0.00	39.5	38.5	50	79.1%	76.9%	2.7%	
Fluoranthene	0.00	29.6	28.1	50	59.2%	56.2%	5.2%	
Fluorene	0.00	37.3	35.9	50	74.6%	71.9%	3.7%	
Indeno(1,2,3-cd)pyrene	0.00	38.2	36.9	50	76.5%	73.8%	3.5%	
2-methylnaphthalene	0.00	35.3	34.3	50	70.5%	68.7%	2.6%	
Naphthalene	0.00	33.3	33.8	50	66.5%	67.5%	1.6%	
Phenanthrene	0.00	37.1	34.6	50	74.2%	69.1%	7.1%	
Pyrene	0.00	40.4	36.8	50	80.8%	73.7%	9.3%	
Nitrobenzene-d5 (surrogate)	49%	49%	46%					
2-Fluorobiphenyl (surrogate)	52%	56%	48%					
p-Terphenyl-d14 (surrogate)	76%	80%	63%					
Analysis Date/Time:	2-1-15/14:44	2-1-15/15:11	2-1-15/15:37					
Analyst Initials:	ajg	ajg	ajg					
Date Extracted:	1/28/2015	1/28/2015	1/28/2015					
Initial Sample Weight:	30 g	30 g	30 g					
Final Volume:	1.0 mL	1.0 mL	1.0 mL					
Original Sample Number Spiked:	15-1333							



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EPA 8260 Quality Control Data

ENVision Batch Number: 012915VW

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



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8260 QC Continued...

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.4	1.4	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	94%		
Toluene-d8 (surrogate)	92%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	1-30-15/00:27		
Analyst Initials	tjg		



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8260 QC Continued...

<u>LCS/LCSD</u>	<u>LCS Results (ug/L)</u>	<u>LCS/LCSD Conc. (ug/L)</u>	<u>LCSD Result (ug/L)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	44.2	50	47.9	88%	96%	8.0	
1,1-Dichloroethene	55.7	50	56.0	111%	112%	0.5	
trans-1,2-Dichloroethene	50.4	50	51.9	101%	104%	2.9	
Methyl-tert-butyl-ether	50.8	50	50.8	102%	102%	0.0	
1,1-Dichloroethane	54.7	50	55.4	109%	111%	1.3	
cis-1,2-Dichloroethene	55.8	50	54.8	112%	110%	1.8	
Chloroform	52.7	50	52.7	105%	105%	0.0	
1,1,1-Trichloroethane	56.2	50	56.6	112%	113%	0.7	
Benzene	49.2	50	49.4	98%	99%	0.4	
Trichloroethene	52.7	50	53.4	105%	107%	1.3	
Toluene	50.1	50	50.2	100%	100%	0.2	
1,1,1,2-Tetrachloroethane	53.2	50	55.3	106%	111%	3.9	
Chlorobenzene	53.2	50	54.7	106%	109%	2.8	
Ethylbenzene	52.6	50	54.2	105%	108%	3.0	
o-Xylene	51.6	50	53.3	103%	107%	3.2	
n-Propylbenzene	52.8	50	54.2	106%	108%	2.6	
Dibromofluoromethane (surrogate)	93%		91%				
1,2-Dichloroethane-d4 (surrogate)	96%		96%				
Toluene-d8 (surrogate)	90%		88%				
4-bromofluorobenzene (surrogate)	89%		89%				
Analysis Date/Time:	1-29-15/23:46		1-30-15/00:06				
Analyst Initials	tjg		tjg				



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Flag Number

1

Comments

Reported value is below the reporting limit but above the MDL.



CHAIN OF CUSTODY RECORD

ENVISSION Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: CAVEK Run LLC	Invoice Address: SAME	REQUESTED PARAMETERS	
Report PO Box 114	Project Name: Edinburgh 11940 N US31	VOCs 8260 SIM	Sample Integrity: Cooler Temp: <u>3</u> °C Samples on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ENVISSION provided bottles: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No VOC vials free of head-space? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No pH checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Method 5035 collection used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 5035 samples received within 48 hr of Collection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Address: Montpelier, IN 47307	Lab Contact: Cheryl	PAHs 8270 SIM	
Report To: spark@creakron.com	Sampled by: Chris Parks	PCBs 8082	
Phone: 317-570-4970	P.O. Number:	% Moisture	
Fax: 317-570-4971	QA/QC Required: (circle if applicable) Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	LEAD 6010	

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	HCl	HNO ₃	H ₂ SO ₄	NaOH	Other	None	ENVISSION Sample ID
UB-1	1/26/15	13:00	G	SL						13	15-1333
UB-2		13:05								5	15-1334
SW-1		13:10								5	15-1335
SW-2		13:15								5	15-1336
SW-3		13:20								5	15-1337
SW-4		13:25								5	15-1338
EM-1		13:30								5	15-1339
HL-1		13:35								6	15-1340
HL-EM-1		11:30								6	15-1341
HLS-1		12:00		↓						5	15-1342
FFR Black TB-1		11:00	↓	WT		3					15-1343

Remove per Charles
CAC 1/28/15

Comments:

Relinquished by: Chris Parks	Date: 1-26-15	Time: 4:50 PM	Received by: Cheryl Parks	Date: 1-26-15	Time: 10:50
-------------------------------------	----------------------	----------------------	----------------------------------	----------------------	--------------------



5035 CHECK-IN SHEET

Client Name: Creek Run ENVision project#: 2015-186

Cooler Temp: 3 °C

Method 5035A used: YES NO

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES NO

5035A samples were received within 48 hrs of collection: YES NO

5035A samples were frozen within 48 hrs of collection by lab: YES NO
If NO, did client freeze samples? YES NO

5035A Table A.1 Reference:
Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then frozen to < -7°C upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES NO

5035A Table A.1 Reference:
Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: Y. Harrison 1/24/15



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8270 SVOC
Package Review

ENVISION Project#: 2015-186

Sequence Log / Extraction Log

8270 Soil / Water Limits

Initial Calibration Data: Calibration Curve: 010715PM-les 5972C

Tune

Initial Calibration Summary

Initial Calibration Quant Reports

Initial Calibration Verification Summary

Continuing Calibration Data

Tune Data

Continuing Calibration Verification Summary

Continuing Calibration Verification (CCV) Quant Report

Internal Standard Area Summary

Quality Control Data

Method Blank (MB)

Laboratory Control Standard (LCS)

Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Not Requested

Raw Sample Data (if applicable - Level IV)

The contents of this Level QA/QC package have been reviewed for completeness and compliance with method requirements.

Secondary Review performed by: J. Hanson

Your Projects. Our Passion.

2015-186

Level IV

8270 SVOC

- Extraction Logbook
- Sequence Log



Section 1.

PNA Statistical Control Limits
Effective Date 1-1-14

Surrogate	Soil Limits, % Rec.
Nitrobenzene-d5	16.52 – 102.19
2-Fluorobiphenyl	10.25 – 120.18
p-Terphenyl-d14	15.89 – 143.66

LCS	Soil Limits, % Rec.
Naphthalene	25 – 83
2-Methylnaphthalene	19 - 87
1-Methylnaphthalene	29 - 91
Acenaphthylene	26 - 83
Acenaphthene	25 - 85
Fluorene	36 - 88
Phenanthrene	16 - 103
Anthracene	27 - 96
Fluoranthene	12 - 107
Pyrene	37 - 106
Benzo(a)anthracene	27 - 90
Chrysene	36 - 95
Benzo(b)fluoranthene	29 - 101
Benzo(k)fluoranthene	35 - 107
Benzo(a)pyrene	28 - 101
Indeno(1,2,3-cd)pyrene	19 - 100
Dibenz(a,h)anthracene	20 - 97
Benzo(g,h,i)perylene	20 - 95

MS/MSD	Soil Limits, % Rec.
Naphthalene	7 - 84
2-Methylnaphthalene	4 - 83
1-Methylnaphthalene	17 - 83
Acenaphthylene	11 - 83
Acenaphthene	10 - 84
Fluorene	15 - 84
Phenanthrene	11 - 82
Anthracene	17 - 87
Fluoranthene	4 - 95
Pyrene	17 - 98
Benzo(a)anthracene	11 - 82
Chrysene	145 - 96
Benzo(b)fluoranthene	13 - 89
Benzo(k)fluoranthene	16 - 97
Benzo(a)pyrene	15 - 90
Indeno(1,2,3-cd)pyrene	9 - 84
Dibenz(a,h)anthracene	8 - 85
Benzo(g,h,i)perylene	5 - 82

Injection Log

Directory: C:\HPCHEM1\DATA\010715

PMA Curve
010715PN. Res
5978 Injected

Line	Vial	FileName	Multiplier	SampleName	Misc Info	
1	2	R_0020.D	1.	DFTPP SV-2557	ISTD#SV-2462	7 Jan 2015 09:38
2	2	R_0021.D	1.	DFTPP SV-2557	ISTD#SV-2462	7 Jan 2015 09:52
3	6	R_0022.D	1.	40/80 CURVE SV-2547	ISTD#SV-2532	7 Jan 2015 10:08
4	7	R_0023.D	1.	1/2 CURVE SV-2507	ISTD#SV-2532	7 Jan 2015 10:34
5	8	R_0024.D	1.	5/10 CURVE SV-2508	ISTD#SV-2532	7 Jan 2015 11:00
6	9	R_0025.D	1.	10/20 CURVE SV-2509	ISTD#SV-2532	7 Jan 2015 11:27
7	10	R_0026.D	1.	20/40 CURVE SV-2510	ISTD#SV-2532	7 Jan 2015 11:53
8	11	R_0027.D	1.	30/60 CURVE SV-2511	ISTD#SV-2532	7 Jan 2015 12:19
9	12	R_0028.D	1.	50/100 CURVE SV-2512	ISTD#SV-2532	7 Jan 2015 12:45
10	13	R_0029.D	1.	60/120 CURVE SV-2513	ISTD#SV-2532	7 Jan 2015 13:11
11	14	R_0030.D	1.	70/140 CURVE SV-2514	ISTD#SV-2532	7 Jan 2015 13:37
12	15	R_0031.D	1.	ICV 40/80 SV-2515	ISTD#SV-2532	7 Jan 2015 14:04
13	2	R_0032.D	1.	DFTPP SV-2557	ISTD#SV-2462	7 Jan 2015 16:04
14	3	R_0033.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	7 Jan 2015 16:20

Injection Log

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Directory: C:\HPCHEM\1\DATA\013115

PMA
Sol 1

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	R_0460.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	31 Jan 2015 08:25
2	2	R_0461.D	1.	DFTPP SV-2557	ISTD#SV-2462	31 Jan 2015 08:48
3	2	R_0462.D	1.	DFTPP SV-2557	ISTD#SV-2462	31 Jan 2015 09:02
4	3	R_0463.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	31 Jan 2015 09:19
5	6	R_0464.D	1.	15-998 D BS1 BURRITO RR	PB# REXTRACTION 17G/1.0ML	31 Jan 2015 09:50
6	7	R_0465.D	1.	PREP BLK TCLP 1-27	PB#012715TCLP 200ML/1.0ML	31 Jan 2015 10:17
7	8	R_0466.D	1.	15-1426 TCLP 1-27	PB#012715TCLP 200ML/1.0ML	31 Jan 2015 10:43
8	9	R_0467.D	1.	15-1426MS TCLP 1-27	PB#012715TCLP 200ML/1.0ML	31 Jan 2015 11:09
9	5	R_0468.D	1.	BLK	BLK	31 Jan 2015 11:36
10	10	R_0469.D	1.	15-1019 D 10X PS1 1-27	PB#012715PS1 30G/1.0ML	31 Jan 2015 12:02
11	11	R_0470.D	1.	15-1020 D PS1 1-27	PB#012715PS1 30G/1.0ML	31 Jan 2015 12:28
12	12	R_0471.D	1.	15-1021 10X D PS1 1-27	PB#012715PS1 30G/1.0ML	31 Jan 2015 12:54
13	5	R_0472.D	1.	BLK	BLK	31 Jan 2015 13:21
14	2	R_0473.D	1.	DFTPP SV-2557	ISTD#SV-2462	31 Jan 2015 13:44
15	2	R_0474.D	1.	DFTPP SV-2557	ISTD#SV-2462	31 Jan 2015 13:58
16	3	R_0475.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	31 Jan 2015 14:14
17	13	R_0476.D	1.	PREP BLK PS1 1-28 /SV-2564	PB#012815PS1 30G/1.0ML	31 Jan 2015 14:40
18	14	R_0477.D	1.	LCS1 PS1 1-28 /SV-2565	PB#012815PS1 30G/1.0ML	31 Jan 2015 15:07
19	15	R_0478.D	1.	LCS2 PS1 1-28 /SV-2565	PB#012815PS1 30G/1.0ML	31 Jan 2015 15:33
20	16	R_0479.D	1.	15-1081 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 15:59
21	17	R_0480.D	1.	15-1082 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 16:25
22	18	R_0481.D	1.	15-1083 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 16:51
23	19	R_0482.D	1.	15-1084 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 17:18
24	20	R_0483.D	1.	15-1085 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 17:44
25	21	R_0484.D	1.	15-1086 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 18:10
26	22	R_0485.D	1.	15-1086MS D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 18:36
27	22	R_0486.D	1.	15-1086MSD D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 19:02
28	23	R_0487.D	1.	15-1087 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 19:28
29	24	R_0488.D	1.	15-1088 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 19:55
30	25	R_0489.D	1.	15-1089 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 20:21
31	26	R_0490.D	1.	15-1090 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 20:47
32	27	R_0491.D	1.	15-1091 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 21:13
33	28	R_0492.D	1.	15-1092 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 21:39

Injection Log

Directory: C:\HPCHEM1\DATA\013115

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
34	29	R_0493.D	1.	15-1093 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 22:05
35	30	R_0494.D	1.	15-1094 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 22:32
36	31	R_0495.D	1.	15-1095 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 22:58
37	32	R_0496.D	1.	15-1096 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 23:24
38	33	R_0497.D	1.	15-1097 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 23:50
39	34	R_0498.D	1.	15-1098 D PS1 1-28	PB#012815PS1 30G/1.0ML	1 Feb 2015 00:16
40	35	R_0499.D	1.	15-1099 D PS1 1-28	PB#012815PS1 30G/1.0ML	1 Feb 2015 00:42
41	2	R_0500.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 01:06
42	2	R_0501.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 01:19
43	3	R_0502.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	1 Feb 2015 01:36
44	36	R_0503.D	1.	PREP BLK PS2 1-28 /SV-2564	PB#012815PS2 30G/1.0ML	1 Feb 2015 02:02
45	37	R_0504.D	1.	LCS1 PS2 1-28 /SV-2565	PB#012815PS2 30G/1.0ML	1 Feb 2015 02:28
46	38	R_0505.D	1.	LCS2 PS2 1-28 /SV-2565	PB#012815PS2 30G/1.0ML	1 Feb 2015 02:55
47	39	R_0506.D	1.	15-1100 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 03:21
48	40	R_0507.D	1.	15-1101 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 03:47
49	41	R_0508.D	1.	15-1102 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 04:13
50	42	R_0509.D	1.	15-1103 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 04:39
51	43	R_0510.D	1.	15-1104 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 05:05
52	44	R_0511.D	1.	15-1105 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 05:32
53	45	R_0512.D	1.	15-1106 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 05:58
54	46	R_0513.D	1.	15-1107 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 06:24
55	47	R_0514.D	1.	15-1108 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 06:50
56	48	R_0515.D	1.	15-1109 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 07:16
57	49	R_0516.D	1.	15-1110 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 07:43
58	50	R_0517.D	1.	15-1111 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 08:09
59	51	R_0518.D	1.	15-1112 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 08:35
60	52	R_0519.D	1.	15-1113 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 09:01
61	53	R_0520.D	1.	15-1114MSD D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 09:28
62	54	R_0521.D	1.	15-1114MS D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 09:54
63	55	R_0522.D	1.	15-1114 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 10:20

Injection Log

Directory: C:\HPCHEM1\DATA\013115

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
64	56	R_0523.D	1.	15-1115 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 10:47
65	57	R_0524.D	1.	15-1116 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 11:13
66	58	R_0525.D	1.	15-1117 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 11:39
67	59	R_0526.D	1.	15-1118 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 12:05
68	2	R_0527.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 12:29
69	2	R_0528.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 12:42
70	3	R_0529.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	1 Feb 2015 12:59
71	6	R_0530.D	1.	PREP BLK PS3 1-28 /SV-2564	PB#012815PS3 30G/1.0ML	1 Feb 2015 13:25
72	7	R_0531.D	1.	LCS1 PS3 1-28 /SV-2565	PB#012815PS3 30G/1.0ML	1 Feb 2015 13:52
73	8	R_0532.D	1.	LCS2 PS3 1-28 /SV-2565	PB#012815PS3 30G/1.0ML	1 Feb 2015 14:18
74	9	R_0533.D	1.	15-1333 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 14:44
75	10	R_0534.D	1.	15-1333MS D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 15:11
76	11	R_0535.D	1.	15-1333MSD D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 15:37
77	12	R_0536.D	1.	15-1334 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 16:03
78	13	R_0537.D	1.	15-1335 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 16:30
79	14	R_0538.D	1.	15-1336 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 16:56
80	15	R_0539.D	1.	15-1337 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 17:22
81	16	R_0540.D	1.	15-1338 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 17:49
82	17	R_0541.D	1.	15-1339 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 18:15
83	18	R_0542.D	1.	15-1340 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 18:41
84	19	R_0543.D	1.	15-1341 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 19:08
85	20	R_0544.D	1.	15-1342 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 19:34
86	2	R_0545.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 19:57
87	2	R_0546.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 20:11
88	3	R_0547.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	1 Feb 2015 20:28
89	21	R_0548.D	1.	PREP BLK PS4 1-28 /SV-2564	PB#012815PS4 30G1.0ML	1 Feb 2015 20:54
90	22	R_0549.D	1.	LCS1 PS4 1-28 /SV-2565	PB#012815PS4 30G1.0ML	1 Feb 2015 21:20
91	23	R_0550.D	1.	LCS2 PS4 1-28 /SV-2565	PB#012815PS4 30G1.0ML	1 Feb 2015 21:47
92	24	R_0551.D	1.	15-1390 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 22:13
93	25	R_0552.D	1.	15-1391 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 22:39
94	26	R_0553.D	1.	15-1392 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 23:06

Injection Log

Directory: C:\HPCHEM\1\DATA\013115

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
95	27	R_0554.D	1.	15-1393 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 23:32
96	28	R_0555.D	1.	15-1394 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 23:58
97	29	R_0556.D	1.	15-1395 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 00:25
98	30	R_0557.D	1.	15-1396 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 00:51
99	31	R_0558.D	1.	15-1397 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 01:17
100	32	R_0559.D	1.	15-1398 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 01:44
101	33	R_0560.D	1.	15-1399 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 02:10
102	34	R_0561.D	1.	15-1399MS D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 02:36
103	35	R_0562.D	1.	15-1399MSD D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 03:02
104	36	R_0563.D	1.	15-1400 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 03:28
105	37	R_0564.D	1.	15-1561 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 03:55
106	38	R_0565.D	1.	15-1562 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 04:21
107	39	R_0566.D	1.	15-1563 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 04:47
108	40	R_0567.D	1.	15-1564 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 05:13
109	41	R_0568.D	1.	15-1565 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 05:39
110	42	R_0569.D	1.	15-1566 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 06:05

8270 SVOC
Initial Calibration Data

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary



Section 2

8270 PNA Calibration Curve Evaluation Summary

ENVision Instrument 59722 Calibration File Name 010715PN-2es

Method 8000 Quality Control Requirement Analysis

Per Method 8000 all CCC's (Full List Analysis) should be less than 30%. Does this curve satisfy those requirements?

<u>Compound</u>	<u>% RSD Observed</u>
Naphthalene	<u>3.09</u>
2-Methylnaphthalene	<u>3.83</u>
1-Methylnaphthalene	<u>3.07</u>
Acenaphthylene	<u>1.85</u>
Acenaphthene	<u>1.93</u>
Fluorene	<u>4.73</u>
Anthracene	<u>2.70</u>
Phenanthrene	<u>2.13</u>
Fluoranthene	<u>3.11</u>
Pyrene	<u>5.39</u>
Benzo(a) anthracene	<u>5.09</u>
Chrysene	<u>4.37</u>
Benzo(b) fluoranthene	<u>2.01</u>
Benzo(k) fluoranthene	<u>3.89</u>
Benzo(a) pyrene	<u>4.43</u>
Indeno(1,2,3-cd)pyrene	<u>2.73</u>
Dibenz(a,h) anthracene	<u>3.83</u>
Benzo(g,h,i) perylene	<u>4.76</u>

Per Method 8270 are SPCC's above minimum requirements? Y/N

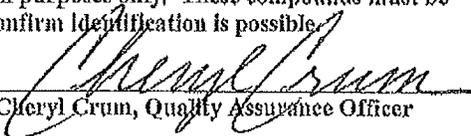
Special Considerations:

All compounds with a %RSD greater than 15% evaluated utilizing alternative statistical models outlined in method 8000 (Linear model evaluation, Quadratic model evaluation-requires minimum of 6 standards). Graphs for compounds utilizing linear and quadratic methods are enclosed with this calibration curve.

Curve evaluated with an INITIAL CALBRATION VERIFICATION standard immediately following the calibration curve. The ICV shall pass Continuing Calibration Verification requirements. The percent drift acceptable limits observed in method 8000/8270 is +/- 30% for CCC's. If a subset analysis is being performed (eg, PNA, PNA-Sm) all compounds are considered CCC's.

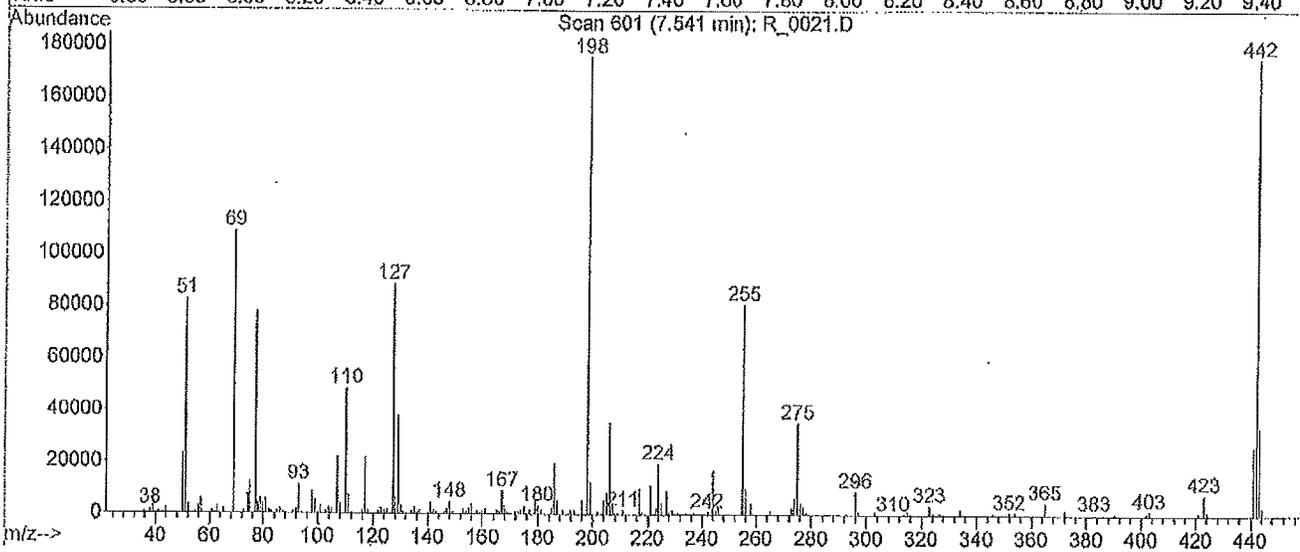
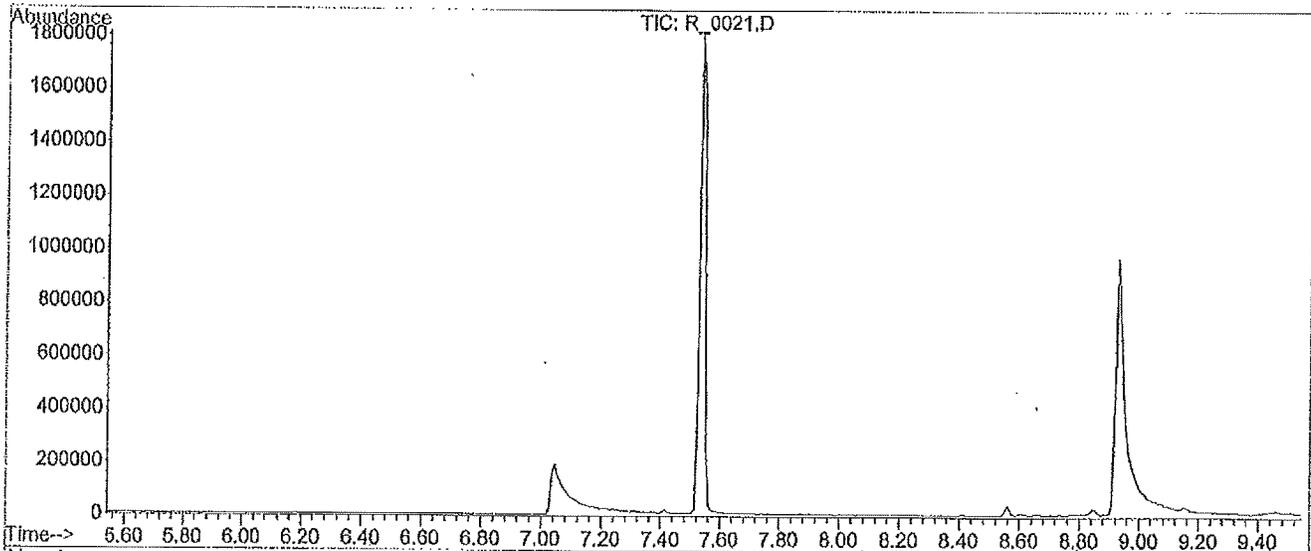
Any compound with %RSD greater than 20% and does not satisfy passing requirements for linear and quadratic evaluation is used for identification purposes only. These compounds must be observed at their respective reporting limits to confirm identification is possible.

Calibration Curve Certified By ENVision QAO


Cheryl Crum, Quality Assurance Officer

DFTPP

Data File : C:\HPCHEM\1\DATA\010715\R_0021.D Vial: 2
 Acq On : 7 Jan 2015 9:52 am Operator: AJG
 Sample : DFTPP SV-2557 Inst : 5972R
 Misc : ISTD#SV-2462 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270



Spectrum Information: Scan 601

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.0	82624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	61.9	108768	PASS
70	69	0.00	2	0.5	508	PASS
127	198	40	60	50.4	88488	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	175744	PASS
199	198	5	9	7.2	12599	PASS
275	198	10	31	20.2	35416	PASS
365	198	1	100	2.7	4738	PASS
441	443	0.01	100	77.8	26448	PASS
442	198	40	100	99.7	175168	PASS
443	442	17	23	19.4	33976	PASS

Response Factor Report 5972R

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration

Calibration Files

5 =R_0024.D 10 =R_0025.D 20 =R_0026.D
 30 =R_0027.D 40 =R_0022.D 50 =R_0028.D

Compound	5	10	20	30	40	50	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----							
2) I Naphthalene-d8 (IS)	-----ISTD-----							
3) S Nitrobenzene-d5 (SU)	0.388	0.390	0.420	0.424	0.428	0.398	0.407	4.07
4) CMT Naphthalene	0.952	0.982	1.016	0.978	1.017	1.039	1.001	3.09
5) CMT 2-Methylnaphthalene	0.489	0.500	0.521	0.503	0.537	0.526	0.509	3.83
6) CMT 1-Methylnaphthalene	0.580	0.604	0.613	0.604	0.623	0.623	0.612	3.07
7) I Acenaphthene-d10 (IS)	-----ISTD-----							
8) S 2-Fluorobiphenyl (S)	1.280	1.274	1.331	1.341	1.169	1.280	1.285	4.51
9) CMT Acenaphthylene	1.846	1.930	1.909	1.910	1.852	1.932	1.898	1.85
10) CMT Acenaphthene	1.159	1.108	1.127	1.110	1.096	1.122	1.123	1.93
11) CMT Fluorene	1.209	1.253	1.248	1.274	1.350	1.355	1.271	4.73
12) I Phenanthrene-d10 (IS)	-----ISTD-----							
13) CMT Phenanthrene	1.095	1.110	1.111	1.113	1.132	1.153	1.125	2.17
14) CMT Anthracene	1.123	1.117	1.159	1.145	1.196	1.167	1.157	2.70
15) CMT Fluoranthene	1.045	1.070	1.185	1.240	1.233	1.249	1.167	7.11
16) I Chrysene-d12 (IS)	-----ISTD-----							
17) CMT Pyrene	1.184	1.312	1.255	1.286	1.403	1.363	1.292	5.79
18) S p-Terphenyl-d14 (SU)	0.825	0.799	0.841	0.862	0.874	0.888	0.847	4.08
19) CMT Benzo(a)anthracene	0.978	1.074	1.060	1.043	1.065	1.042	1.060	5.09
20) CMT Chrysene	1.011	0.957	1.018	0.974	1.012	0.972	1.004	4.34
21) I Perylene-d12 (IS)	-----ISTD-----							
22) CMT Benzo(b)fluoranthene	1.167	1.196	1.238	1.316	1.347	1.373	1.257	7.01
23) CMT Benzo(k)fluoranthene	1.329	1.384	1.433	1.474	1.457	1.346	1.404	3.89
24) CMT Benzo(a)pyrene	1.244	1.206	1.230	1.311	1.299	1.256	1.242	4.47
25) CMT Indeno(1,2,3-cd)pyr	1.212	1.323	1.268	1.280	1.249	1.269	1.264	2.73
26) CMT Dibenz(a,h)anthracene	0.970	1.100	1.043	1.058	1.018	1.030	1.035	3.83
27) CMT Benzo(g,h,i)perylene	0.979	1.138	1.065	1.087	1.030	1.064	1.066	4.76

(#) = Out of Range ### Number of calibration levels exceeded format ###

010715PN.M Thu Jan 08 08:12:43 2015 RPT1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\010715\R_0031.D

Acq On : 7 Jan 2015 2:04 pm

Sample : ICV 40/80 SV-2515

Misc : ISTD#SV-2532

MS Integration Params: rteint.p

Vial: 15

Operator: AJG

Inst : 5972R

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)

Title : BNA 8270

Last Update : Wed Jan 07 13:31:20 2015

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I 1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	197	0.00
2 I Naphthalene-d8 (IS)	1.000	1.000	0.0	199	0.00
3 S Nitrobenzene-d5 (SURR)	0.407	0.392	3.7	182	0.00
4 CMT Naphthalene	1.001	0.970	3.1	190	0.00
5 CMT 2-Methylnaphthalene	0.509	0.519	-2.0	192	0.00
6 CMT 1-Methylnaphthalene	0.612	0.607	0.8	194	0.00
7 I Acenaphthene-d10 (IS)	1.000	1.000	0.0	171	0.00
8 S 2-Fluorobiphenyl (SURR)	1.285	1.295	-0.8	189	0.00
9 CMT Acenaphthylene	1.898	1.895	0.2	175	0.00
10 CMT Acenaphthene	1.123	1.101	2.0	171	0.00
11 CMT Fluorene	1.271	1.245	2.0	157	0.00
12 I Phenanthrene-d10 (IS)	1.000	1.000	0.0	139	0.00
13 CMT Phenanthrene	1.125	1.153	-2.5	142	0.00
14 CMT Anthracene	1.157	1.203	-4.0	140	0.00
15 CMT Fluoranthene	1.167	1.176	-0.8	133	0.00
16 I Chrysene-d12 (IS)	1.000	1.000	0.0	146	0.00
17 CMT Pyrene	1.292	1.281	0.9	133	0.00
18 S p-Terphenyl-d14 (SURR)	0.847	0.788	7.0	131	0.00
19 CMT Benzo(a)anthracene	1.060	1.076	-1.5	147	0.00
20 CMT Chrysene	1.004	1.031	-2.7	148	0.00
21 I Perylene-d12 (IS)	1.000	1.000	0.0	181	0.00
22 CMT Benzo(b)fluoranthene	1.257	1.391	-10.7	186	0.00
23 CMT Benzo(k)fluoranthene	1.404	1.326	5.6	164	0.00
24 CMT Benzo(a)pyrene	1.242	1.303	-4.9	181	0.00
25 CMT Indeno(1,2,3-cd)pyrene	1.264	1.276	-0.9	184	0.00
26 CMT Dibenz(a,h)anthracene	1.035	1.049	-1.4	186	0.00
27 CMT Benzo(g,h,i)perylene	1.066	1.092	-2.4	191	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0031.D
 Acq On : 7 Jan 2015 2:04 pm
 Sample : ICV 40/80 SV-2515
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 15:33 2015

Vial: 15
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.53	152	373122	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1472696	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	681052	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	975052	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	907393	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	701501m	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	721600	48.11	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	96.22%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	1102405	50.38	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	100.76%		
18) p-Terphenyl-d14 (SURR)	11.98	244	893732	46.51	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 136		Recovery =	93.02%		

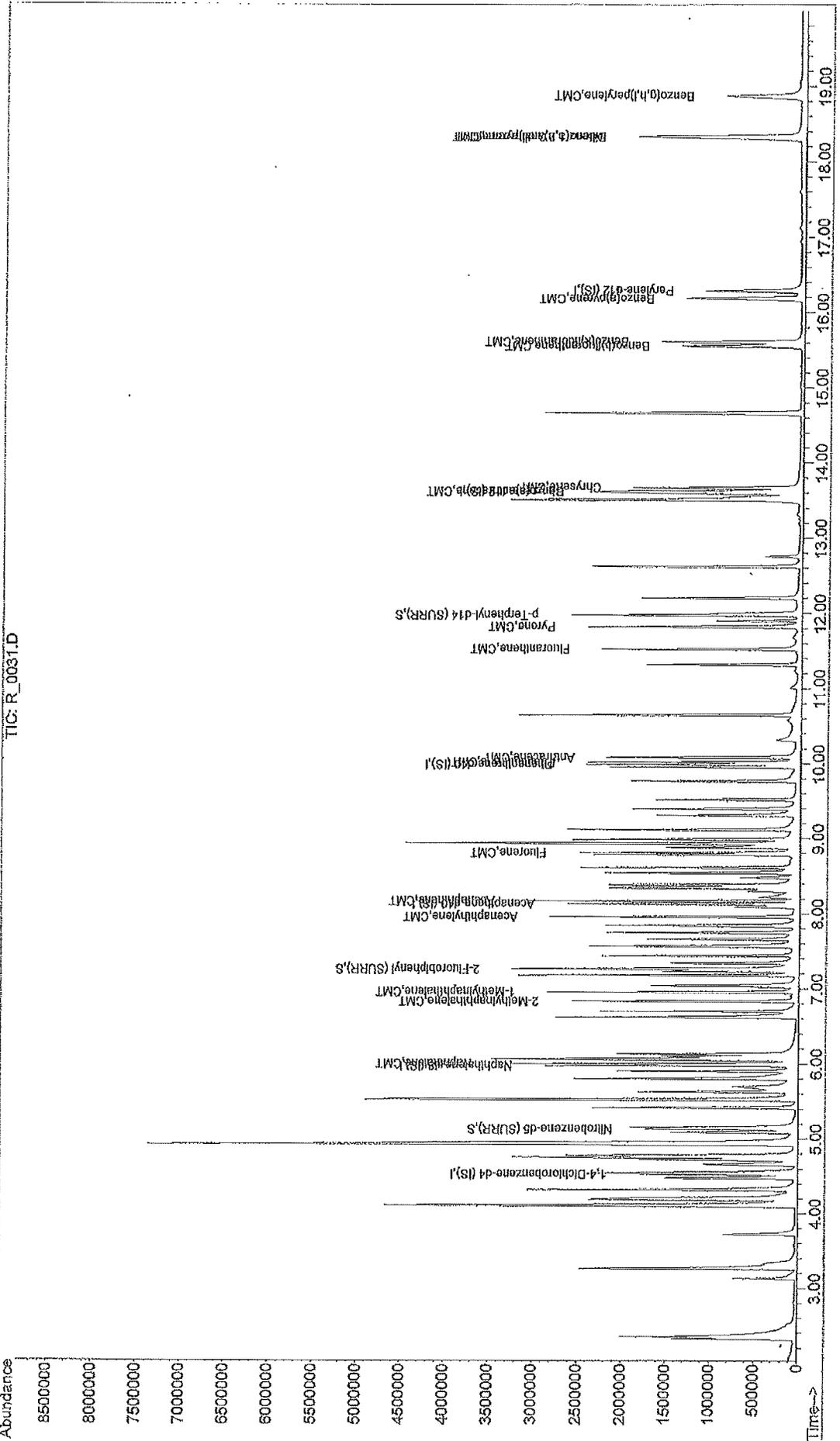
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	1428482m	38.74	ug/mL	
5) 2-Methylnaphthalene	6.83	141	763944	40.77	ug/mL	99
6) 1-Methylnaphthalene	6.96	142	894332	39.68	ug/mL	93
9) Acenaphthylene	7.96	152	1290599	39.94	ug/mL	100
10) Acenaphthene	8.17	154	749615	39.20	ug/mL	99
11) Fluorene	8.81	166	848102	39.18	ug/mL	100
13) Phenanthrene	10.03	178	1124190	41.00	ug/mL	99
14) Anthracene	10.10	178	1173447	41.59	ug/mL	100
15) Fluoranthene	11.53	202	1146464	40.29	ug/mL	99
17) Pyrene	11.82	202	1162546	39.68	ug/mL	100
19) Benzo(a)anthracene	13.61	228	976469	40.60	ug/mL	99
20) Chrysene	13.68	228	935700	41.07	ug/mL	99
22) Benzo(b)fluoranthene	15.57	252	975583	44.26	ug/mL	99
23) Benzo(k)fluoranthene	15.61	252	930248	37.77	ug/mL	100
24) Benzo(a)pyrene	16.19	252	914070	41.97	ug/mL	100
25) Indeno(1,2,3-cd)pyrene	18.33	276	895007m	40.39	ug/mL	
26) Dibenz(a,h)anthracene	18.34	278	735550m	40.52	ug/mL	
27) Benzo(g,h,i)perylene	18.87	276	765791m	40.96	ug/mL	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0031.D
Acq On : 7 Jan 2015 2:04 pm
Sample : ICV 40/80 SV-2515
Misc : ISTD#SV-2532
MS Integration Params: rteint.p
Quant Time: Jan 7 15:33 2015
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



TIC: R_0031.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0022.D
 Acq On : 7 Jan 2015 10:08 am
 Sample : 40/80 CURVE SV-2547
 Misc : ISTD#SV-2532

Vial: 6
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jan 7 10:35 2015

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 10:35:30 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	189292	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	739388	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	399083	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	700252	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	622564	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	388363	40.00	ug/mL	0.00

System Monitoring Compounds

3) Nitrobenzene-d5 (SURR)	5.14	82	395973	50.37	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery	=	100.74%	
8) 2-Fluorobiphenyl (SURR)	7.27	172	583307	42.98	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery	=	85.96%	
18) p-Terphenyl-d14 (SURR)	11.99	244	679973	51.48	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery	=	102.96%	

Target Compounds

Qvalue

4) Naphthalene	6.01	128	751838	39.37	ug/mL	100
5) 2-Methylnaphthalene	6.84	141	397179	37.41	ug/mL	88
6) 1-Methylnaphthalene	6.97	142	460892	40.32	ug/mL	100
9) Acenaphthylene	7.97	152	739001	35.86	ug/mL	100
10) Acenaphthene	8.18	154	437329	34.37	ug/mL	100
11) Fluorene	8.82	166	538697	41.89	ug/mL	100
13) Phenanthrene	10.03	178	792755	39.01	ug/mL	99
14) Anthracene	10.10	178	837536	40.54	ug/mL	100
15) Fluoranthene	11.53	202	863411	40.69	ug/mL	100
17) Pyrene	11.83	202	873191	40.39	ug/mL	100
19) Benzo(a)anthracene	13.61	228	663323	37.35	ug/mL	99
20) Chrysene	13.67	228	630192	38.77	ug/mL	100
22) Benzo(b)fluoranthene	15.57	252	523117	40.04	ug/mL	98
23) Benzo(k)fluoranthene	15.61	252	566017	44.63	ug/mL	100
24) Benzo(a)pyrene	16.19	252	504570	40.56	ug/mL	100
25) Indeno(1,2,3-cd)pyrene	18.33	276	485158	37.22	ug/mL	100
26) Dibenz(a,h)anthracene	18.34	278	395412	36.85	ug/mL	100
27) Benzo(g,h,i)perylene	18.88	276	399972	36.03	ug/mL	100

(#) = qualifier out of range (m) = manual integration

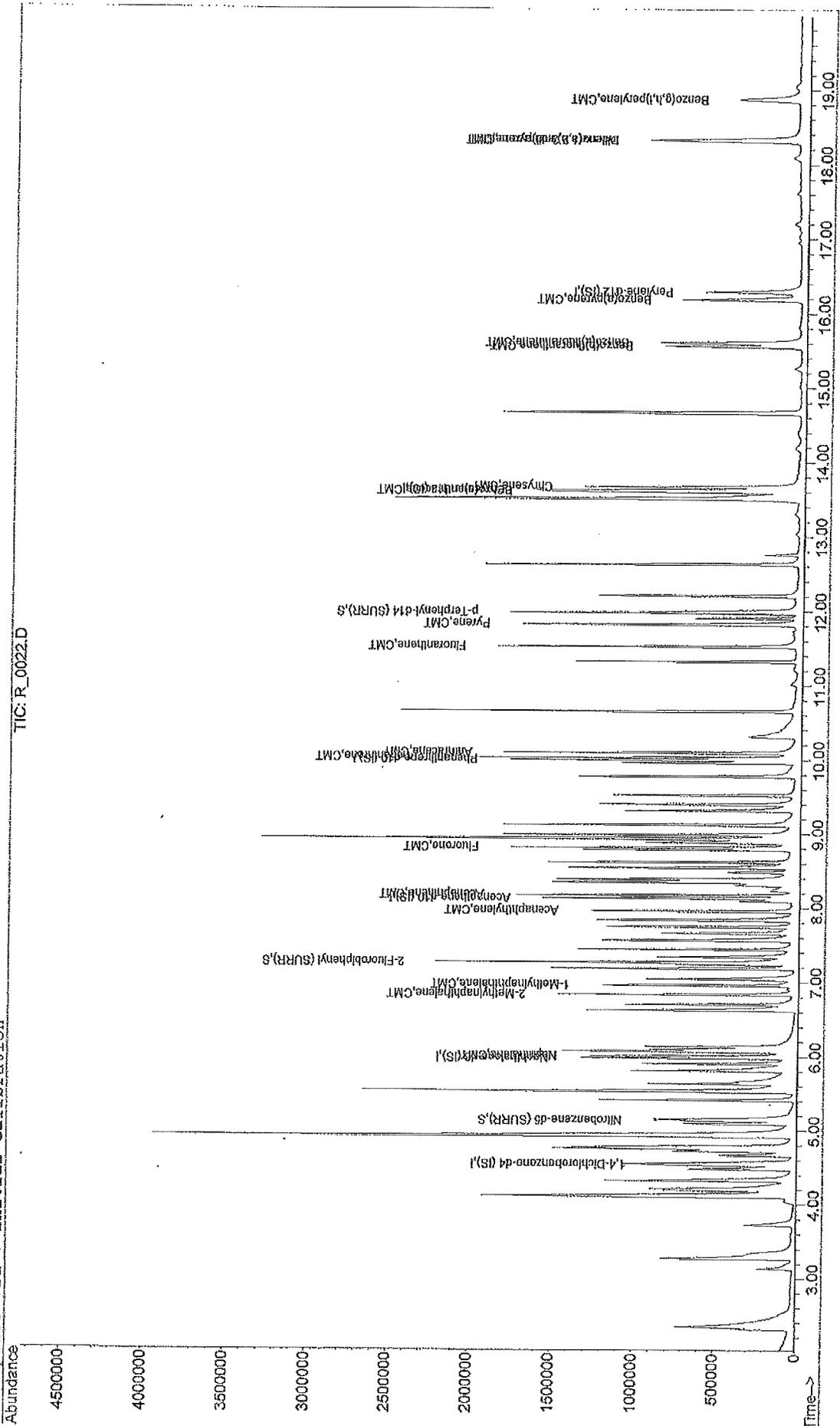
Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0022.D
Acq On : 7 Jan 2015 10:08 am
Sample : 40/80 CURVE SV-2547
Misc : ISID#SV-2532
MS Integration Params: rteint.p
Quant Time: Jan 7 10:35 2015

Vial: 6
Operator: AJG
Inst : 5972R
Multiplier: 1.00

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



TIC: R_0022.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0023.D
 Acq On : 7 Jan 2015 10:34 am
 Sample : 1/2 CURVE SV-2507
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:28 2015

Vial: 7
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 10:36:08 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.53	152	607510	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	2416796	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	1135741	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	1657006	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	1569745	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.30	264	1203797	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.14	82	1218569	47.42	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	94.84%
8) 2-Fluorobiphenyl (SURR)	7.27	172	1876078	48.57	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	97.14%
18) p-Terphenyl-d14 (SURR)	11.99	244	1609154	48.32	ug/mL	0.00
Spiked Amount	50.000	Range	26 - 136	Recovery	=	96.64%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	61948	0.99	ug/mL	94
5) 2-Methylnaphthalene	6.86	141	29359	0.85	ug/mL	98
6) 1-Methylnaphthalene	6.97	142	38553	1.03	ug/mL	96
9) Acenaphthylene	7.97	152	54134	0.92	ug/mL	99
10) Acenaphthene	8.17	154	32435	0.90	ug/mL	98
11) Fluorene	8.83	166	34376	0.94	ug/mL	92
13) Phenanthrene	10.03	178	48058	1.00	ug/mL	97
14) Anthracene	10.10	178	49459	1.01	ug/mL	96
15) Fluoranthene	11.55	202	47638	0.95	ug/mL	99
17) Pyrene	11.84	202	48590	0.89	ug/mL	99
19) Benzo(a)anthracene	13.61	228	45484	1.02	ug/mL	98
20) Chrysene	13.66	228	42671	1.04	ug/mL	96
22) Benzo(b)fluoranthene	15.57	252	34905	0.86	ug/mL	97
23) Benzo(k)fluoranthene	15.63	252	42340	1.08	ug/mL	98
24) Benzo(a)pyrene	16.19	252	34560	0.90	ug/mL	99
25) Indeno(1,2,3-cd)pyrene	18.35	276	37438	0.93	ug/mL	99
26) Dibenz(a,h)anthracene	18.36	278	30940	0.93	ug/mL	98
27) Benzo(g,h,i)perylene	18.90	276	33026	0.96	ug/mL	95

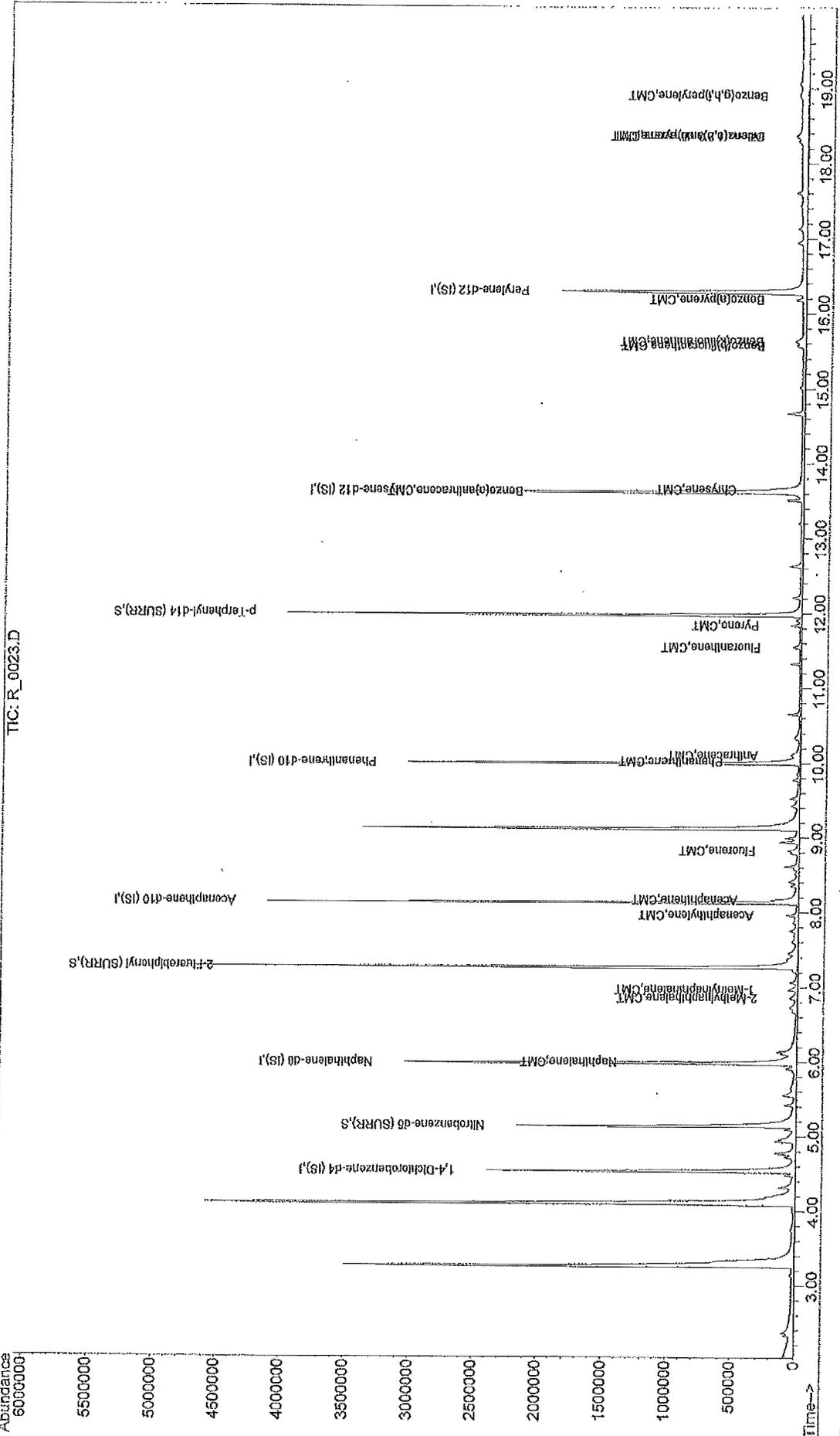
Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0023.D
 Acq On : 7 Jan 2015 10:34 am
 Sample : 1/2 CURVE SV-2507
 Misc : ISID#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:28 2015

Vial: 7
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0024.D
 Acq On : 7 Jan 2015 11:00 am
 Sample : 5/10 CURVE SV-2508
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015

Vial: 8
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:28:53 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	294235	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1165921	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	552376	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	810215	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.62	240	744599	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	574045	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	565547	45.79	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	91.58%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	883777	47.49	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	94.98%		
18) p-Terphenyl-d14 (SURR)	11.98	244	767949	48.89	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 136		Recovery =	97.78%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	138808	4.66	ug/mL	97
5) 2-Methylnaphthalene	6.85	141	71293	4.44	ug/mL	98
6) 1-Methylnaphthalene	6.97	142	84471	4.68	ug/mL	100
9) Acenaphthylene	7.96	152	127439	4.58	ug/mL	99
10) Acenaphthene	8.17	154	80014	4.69	ug/mL	94
11) Fluorene	8.82	166	83470	4.77	ug/mL	99
13) Phenanthrene	10.02	178	110883	4.77	ug/mL	99
14) Anthracene	10.11	178	113731	4.78	ug/mL	99
15) Fluoranthene	11.54	202	105850	4.37	ug/mL	98
17) Pyrene	11.83	202	110225	4.37	ug/mL	99
19) Benzo(a)anthracene	13.60	228	90994	4.37	ug/mL	99
20) Chrysene	13.67	228	94068	4.87	ug/mL	97
22) Benzo(b)fluoranthene	15.57	252	83763	4.44	ug/mL	96
23) Benzo(k)fluoranthene	15.61	252	95374	5.08	ug/mL	96
24) Benzo(a)pyrene	16.18	252	89247	5.00	ug/mL	96
25) Indeno(1,2,3-cd)pyrene	18.34	276	86944	4.61	ug/mL	98
26) Dibenz(a,h)anthracene	18.34	278	69582	4.48	ug/mL	96
27) Benzo(g,h,i)perylene	18.89	276	70259	4.36	ug/mL	99

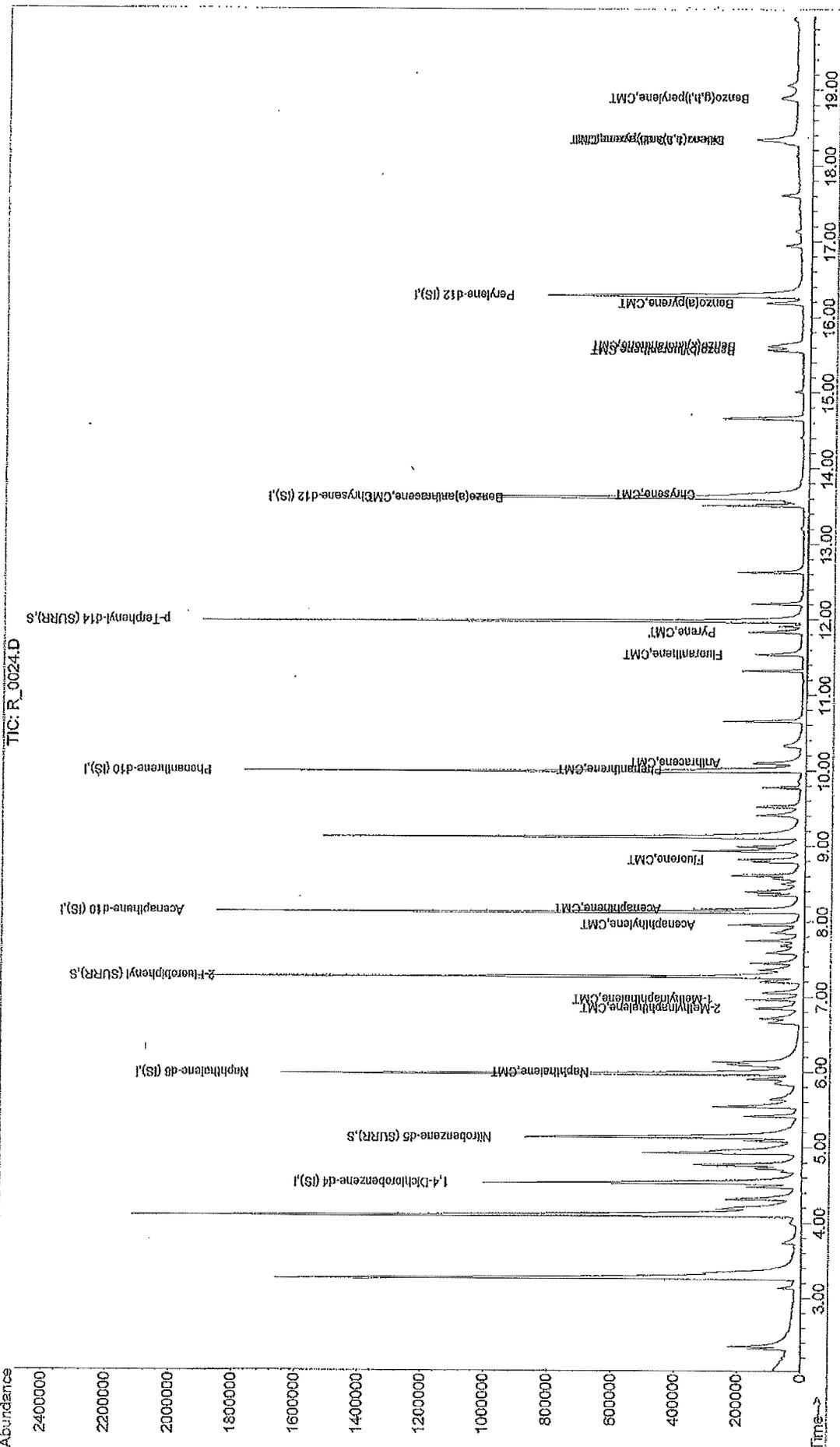
Quantitation Report

Data File : C:\NFCHEM\1\DATA\010715\N_0024.D
 Acq On : 7 Jan 2015 11:00 am
 Sample : 5/10 CURVE SV-2508
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015

Vial: 8
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Method : C:\NFCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0025.D
 Acq On : 7 Jan 2015 11:27 am
 Sample : 10/20 CURVE SV-2509
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015

Vial: 9
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:29:14 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.53	152	709990	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	2877463	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	1310272	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	1909981	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	1639933	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.30	264	1339709	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.14	82	1403723	46.22	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	92.44%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	2086090	47.68	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	95.36%		
18) p-Terphenyl-d14 (SURR)	11.99	244	1638136	47.53	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery =	95.06%		

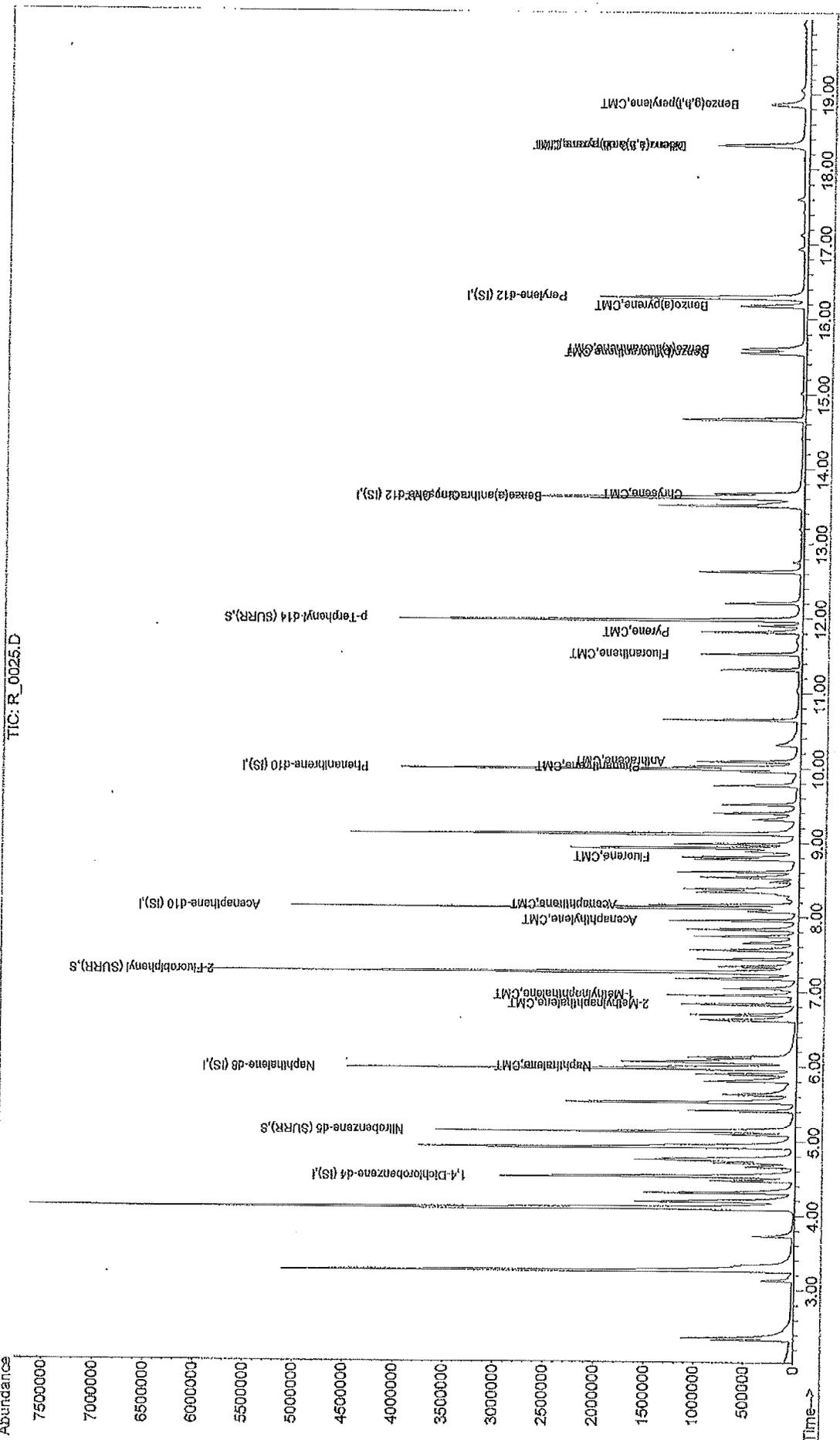
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	706565	9.69	ug/mL	98
5) 2-Methylnaphthalene	6.84	141	359467	9.25	ug/mL	97
6) 1-Methylnaphthalene	6.96	142	434237	9.88	ug/mL	99
9) Acenaphthylene	7.96	152	632349	9.72	ug/mL	99
10) Acenaphthene	8.17	154	362927	9.00	ug/mL	98
11) Fluorene	8.81	166	410320	9.95	ug/mL	99
13) Phenanthrene	10.03	178	529865	9.75	ug/mL	99
14) Anthracene	10.10	178	533565	9.56	ug/mL	98
15) Fluoranthene	11.53	202	510902	9.09	ug/mL	98
17) Pyrene	11.82	202	537781	9.88	ug/mL	99
19) Benzo(a)anthracene	13.61	228	440459	9.80	ug/mL	99
20) Chrysene	13.67	228	392499	9.24	ug/mL	100
22) Benzo(b)fluoranthene	15.56	252	400672	9.22	ug/mL	99
23) Benzo(k)fluoranthene	15.60	252	463678	10.52	ug/mL	99
24) Benzo(a)pyrene	16.18	252	403770	9.66	ug/mL	99
25) Indeno(1,2,3-cd)pyrene	18.32	276	443217	10.20	ug/mL	98
26) Dibenz(a,h)anthracene	18.32	278	368476	10.33	ug/mL	100
27) Benzo(g,h,i)perylene	18.87	276	381141	10.35	ug/mL	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0025.D
 Acq On : 7 Jan 2015 11:27 am
 Sample : 10/20 CURVE SV-2509
 Misc : ISID#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015

Vial: 9
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00
 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : ENA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0026.D Vial: 10
 Acq On : 7 Jan 2015 11:53 am Operator: AJG
 Sample : 20/40 CURVE SV-2510 Inst : 5972R
 Misc : ISTD#SV-2532 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015 Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:29:40 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	283945	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1136799	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	537632	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	778411	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.62	240	769701	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	576424	40.00	ug/mL	0.00

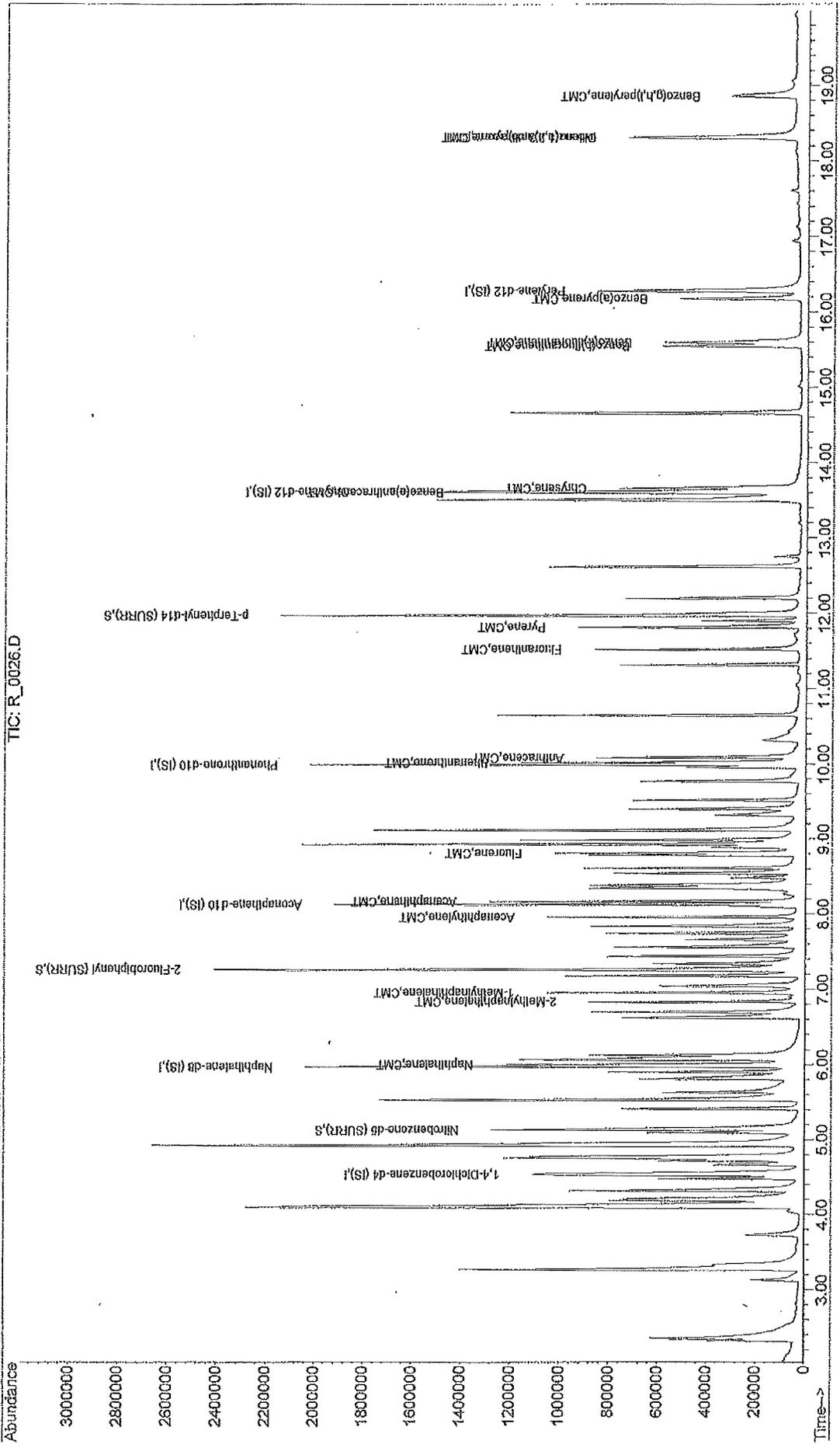
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	596253	49.88	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	99.76%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	894653	50.24	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	100.48%		
18) p-Terphenyl-d14 (SURR)	11.98	244	809449	50.18	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery =	100.36%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	577364	20.23	ug/mL	99
5) 2-Methylnaphthalene	6.84	141	295982	19.73	ug/mL	100
6) 1-Methylnaphthalene	6.96	142	348404	20.24	ug/mL	99
9) Acenaphthylene	7.96	152	513168	19.49	ug/mL	100
10) Acenaphthene	8.17	154	302900	18.78	ug/mL	98
11) Fluorene	8.81	166	335601	19.99	ug/mL	99
13) Phenanthrene	10.02	178	432228	19.63	ug/mL	99
14) Anthracene	10.09	178	451167	20.00	ug/mL	98
15) Fluoranthene	11.53	202	461087	20.50	ug/mL	99
17) Pyrene	11.82	202	483166	19.05	ug/mL	99
19) Benzo(a)anthracene	13.60	228	407883	19.46	ug/mL	99
20) Chrysene	13.67	228	391698	19.88	ug/mL	98
22) Benzo(b)fluoranthene	15.56	252	356895	19.30	ug/mL	99
23) Benzo(k)fluoranthene	15.60	252	412928	21.56	ug/mL	99
24) Benzo(a)pyrene	16.18	252	354416	19.83	ug/mL	99
25) Indeno(1,2,3-cd)pyrene	18.32	276	365416	19.57	ug/mL	99
26) Dibenz(a,h)anthracene	18.32	278	300540	19.61	ug/mL	98
27) Benzo(g,h,i)perylene	18.87	276	307056	19.39	ug/mL	99

Quantitation Report

Data File : C:\HPCHEM\DATA\010715PN_R_0026.D
Acq On : 7 Jan 2015 11:53 am
Sample : 20/40 CURVE SV-2510
Misc : ISTD#SV-2532
MS Integration Params: rteint.p
Quant Time: Jan 7 12:29 2015
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



TIC: R_0026.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0027.D Vial: 11
 Acq On : 7 Jan 2015 12:19 pm Operator: AJG
 Sample : 30/60 CURVE SV-2511 Inst : 5972R
 Misc : ISTD#SV-2532 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jan 7 12:39 2015

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)

Title : BNA 8270
 Last Update : Wed Jan 07 12:30:08 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	260100	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1037963	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	482459	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	759960	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	758043	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.28	264	503540	40.00	ug/mL	0.00

System Monitoring Compounds

3) Nitrobenzene-d5 (SURR)	5.13	82	550336	50.63	ug/mL	0.00
Spiked Amount	50,000	Range 11 - 104	Recovery =	101.26%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	808617	51.17	ug/mL	0.00
Spiked Amount	50,000	Range 11 - 104	Recovery =	102.34%		
18) p-Terphenyl-d14 (SURR)	11.98	244	836001	52.83	ug/mL	0.00
Spiked Amount	50,000	Range 26 - 136	Recovery =	105.66%		

Target Compounds

Qvalue

4) Naphthalene	6.00	128	761695	29.31	ug/mL	99
5) 2-Methylnaphthalene	6.84	141	391906	28.90	ug/mL	98
6) 1-Methylnaphthalene	6.96	142	470233	29.83	ug/mL	98
9) Acenaphthylene	7.96	152	691109	29.67	ug/mL	100
10) Acenaphthene	8.17	154	401510	28.34	ug/mL	99
11) Fluorene	8.81	166	460846	30.56	ug/mL	99
13) Phenanthrene	10.02	178	634224	29.79	ug/mL	99
14) Anthracene	10.10	178	652852	29.73	ug/mL	97
15) Fluoranthene	11.53	202	707035	32.28	ug/mL	99
17) Pyrene	11.82	202	730937	29.76	ug/mL	99
19) Benzo(a)anthracene	13.60	228	592773	28.96	ug/mL	99
20) Chrysene	13.67	228	553529	28.64	ug/mL	99
22) Benzo(b)fluoranthene	15.56	252	496975	31.17	ug/mL	99
23) Benzo(k)fluoranthene	15.60	252	556650	32.59	ug/mL	100
24) Benzo(a)pyrene	16.18	252	495126	31.78	ug/mL	99
25) Indeno(1,2,3-cd)pyrene	18.32	276	483298	29.92	ug/mL	98
26) Dibenz(a,h)anthracene	18.33	278	399434	30.10	ug/mL	97
27) Benzo(g,h,i)perylene	18.87	276	410667	29.96	ug/mL	99

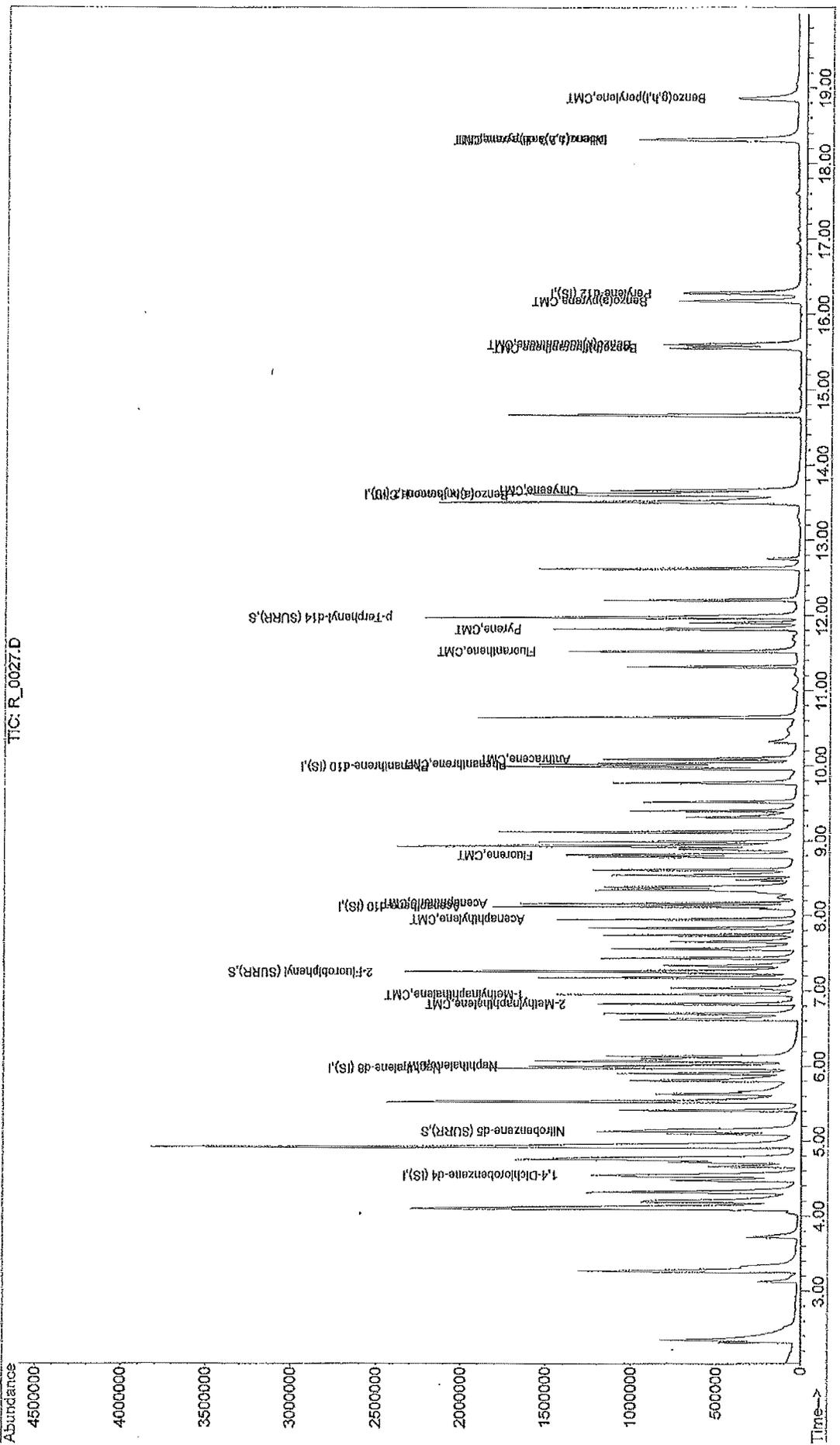
Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\NR_0027.D
 Acq On : 7 Jan 2015 12:19 pm
 Sample : 30/60 CURVE SV-2511
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:39 2015

Vial: 11
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



TIC: R_0027.D

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0028.D
 Acq On : 7 Jan 2015 12:45 pm
 Sample : 50/100 CURVE SV-2512
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 13:31 2015

Vial: 12
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:40:37 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	250960	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1001156	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	488993	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	826350	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	777034	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	536218	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	497980	47.79	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	95.58%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	782553	49.15	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	98.30%		
18) p-Terphenyl-d14 (SURR)	11.98	244	862318	52.93	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 136		Recovery =	105.86%		

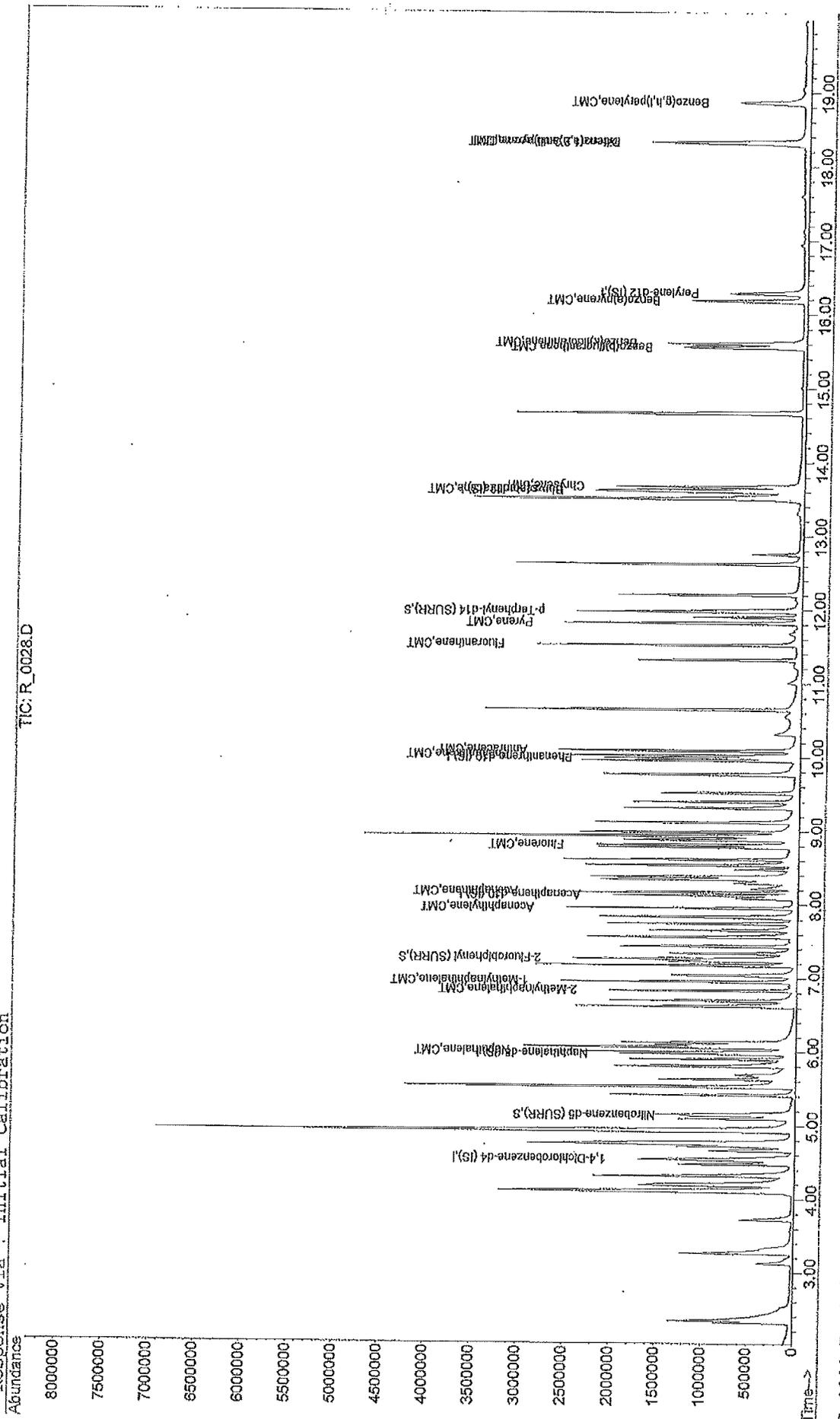
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	1300377	52.22	ug/mL	99
5) 2-Methylnaphthalene	6.84	141	658641	51.19	ug/mL	99
6) 1-Methylnaphthalene	6.96	142	780007	51.30	ug/mL	94
9) Acenaphthylene	7.96	152	1180644	50.44	ug/mL	100
10) Acenaphthene	8.17	154	685532	48.77	ug/mL	98
11) Fluorene	8.82	166	828379	54.04	ug/mL	100
13) Phenanthrene	10.03	178	1190969	51.31	ug/mL	98
14) Anthracene	10.10	178	1205816	50.43	ug/mL	99
15) Fluoranthene	11.53	202	1290005	53.77	ug/mL	100
17) Pyrene	11.82	202	1323590	52.83	ug/mL	100
19) Benzo(a)anthracene	13.61	228	1012052	48.61	ug/mL	100
20) Chrysene	13.68	228	943794	47.96	ug/mL	99
22) Benzo(b)fluoranthene	15.56	252	920317	54.84	ug/mL	99
23) Benzo(k)fluoranthene	15.61	252	902086	48.51	ug/mL	100
24) Benzo(a)pyrene	16.19	252	842080	50.67	ug/mL	100
25) Indeno(1,2,3-cd)pyrene	18.33	276	850370	49.88	ug/mL	99
26) Dibenz(a,h)anthracene	18.34	278	690269	49.36	ug/mL	97
27) Benzo(g,h,i)perylene	18.87	276	713379	49.47	ug/mL	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0028.D
 Acq On : 7 Jan 2015 12:45 pm
 Sample : 50/100 CURVE SV-2512
 Misc : ISID#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 13:31 2015

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



TIC: R_0028.D

8270 SVOC
Continuing Calibration Data

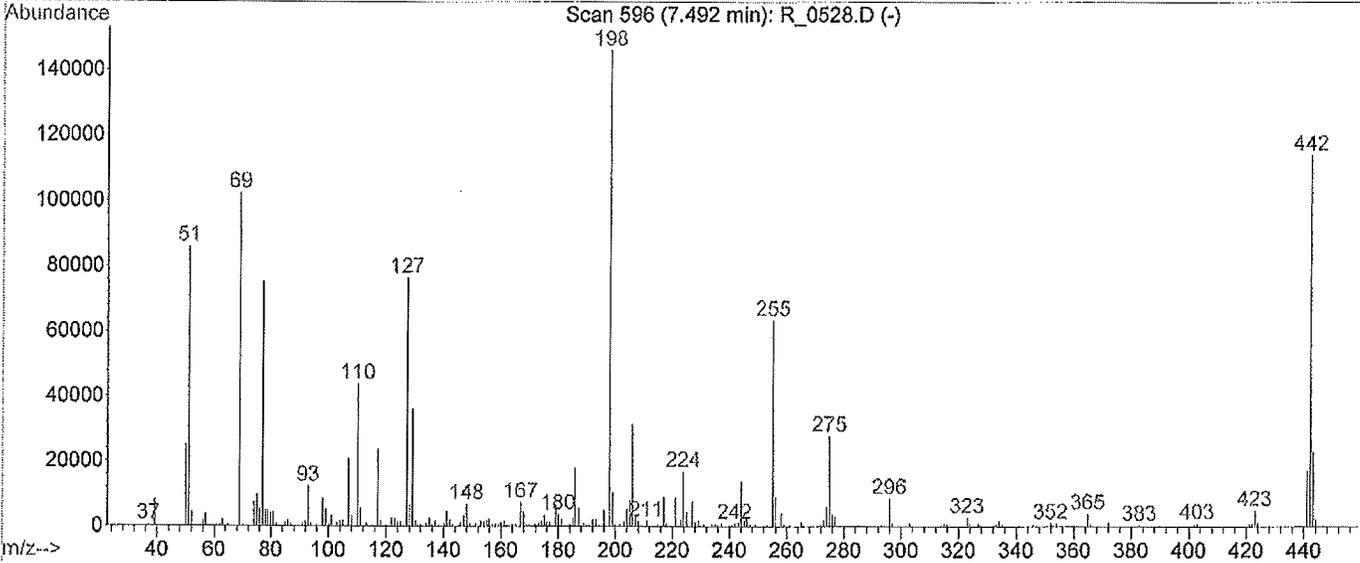
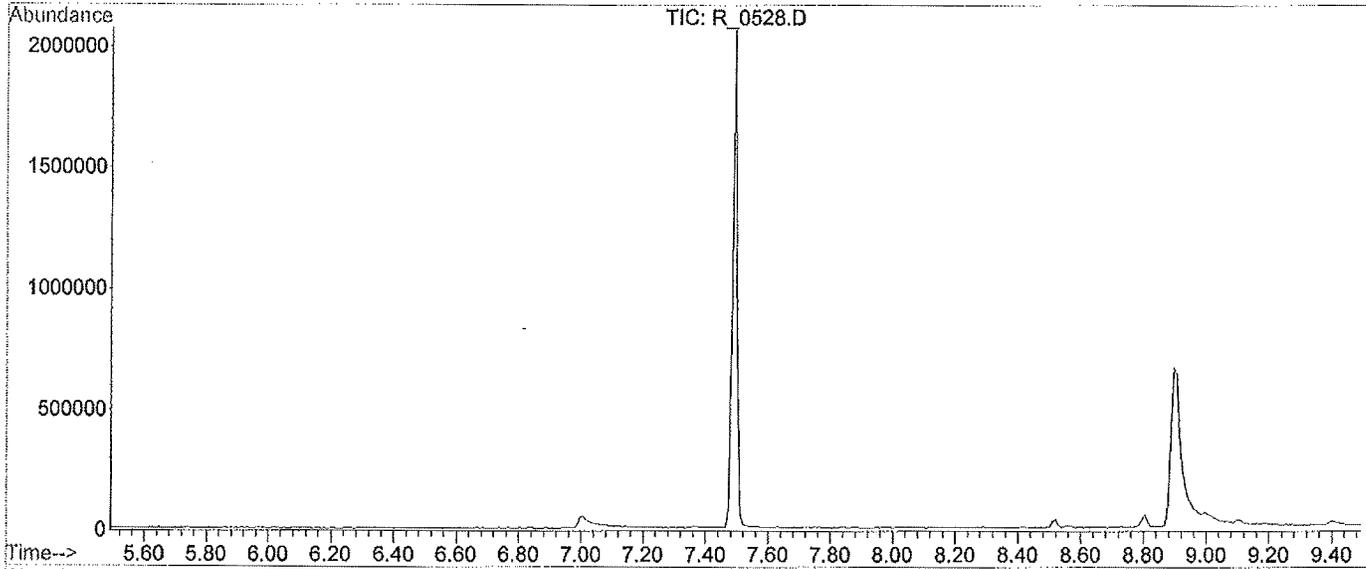
- Tune
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary



Section 3

DFTPP

Data File : C:\HPCHEM\1\DATA\013115\R_0528.D Vial: 2
 Acq On : 1 Feb 2015 12:42 pm Operator: AJG
 Sample : DFTPP SV-2557 Inst : 5972R
 Misc : ISTD#SV-2462 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270



Spectrum Information: Scan 596

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	58.8	85890	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	70.0	102226	PASS
70	69	0.00	2	0.5	537	PASS
127	198	40	60	52.2	76254	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	146038	PASS
199	198	5	9	7.0	10227	PASS
275	198	10	31	19.1	27834	PASS
365	198	1	100	2.6	3856	PASS
441	443	0.01	100	75.0	17238	PASS
442	198	40	100	78.0	113872	PASS
443	442	17	23	20.2	22976	PASS

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\013115\R_0529.D
 Tune Time : 1 Feb 2015 12:59 pm

Daily Calibration File : C:\HPCHEM\1\DATA\013115\R_0529.D

File	Sample	Surrogate	Recovery %	Internal Standard Responses		
				187289	786707	376964
				612852	503788	324013
R_0529.D	40/80 C	100	107 113	187289	786707	376964
			612852	503788	324013	
R_0530.D	PREP BLK	38	40 69	158843	638086	361735
			656118	397521	260516	
R_0531.D	LCS1 PS	57	58 98	165889	711536	409111
			707850	459153	274096	
R_0532.D	LCS2 PS	73	76 120	173919	725289	390589
			711420	475167	294378	
R_0533.D	15-1333	49	52 76	196480	789408	441039
			719975	494756	362600	
R_0534.D	15-1333M	49	56 80	176813	789122	453517
			744191	481200	325399	
R_0535.D	15-1333M	46	48 63	197455	853007	481399
			794121	540979	374550	
R_0536.D	15-1334	41	49 81	186417	796644	408681
			651545	393054	259665	
R_0537.D	15-1335	58	60 98	177818	730160	381577
			625351	395857	274269	
R_0538.D	15-1336	46	46 80	188027	795842	529761
			906097	504199	338185	
R_0539.D	15-1337	58	60 117	208298	849913	467733
			743502	473488	325423	
R_0540.D	15-1338	56	58 92	173451	717258	404142
			661611	404004	266151	
R_0541.D	15-1339	65	70 102	186882	742699	434311
			659086	446666	327451	
R_0542.D	15-1340	66	71 123	152012	611253	339608
			555786	370627	245035	
R_0543.D	15-1341	59	65 96	197765	804093	472166
			735001	607140	401128	
R_0544.D	15-1342	54	63 110	196138	799951	468580
			786268	460388	293194	

t - fails 12hr time check * - fails criteria

Created: Mon Feb 02 10:02:03 2015 5972R

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\013115\R_0529.D Vial: 3
 Acq On : 1 Feb 2015 12:59 pm Operator: AJG
 Sample : 40/80 CCV SV-2547 Inst : 5972R
 Misc : ISTD#SV-2532 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	99	-0.04
2 I	Naphthalene-d8 (IS)	1.000	1.000	0.0	106	-0.04
3 S	Nitrobenzene-d5 (SURR)	0.407	0.406	0.2	101	-0.03
4 CMT	Naphthalene	1.001	1.024	-2.3	107	-0.04
5 CMT	2-Methylnaphthalene	0.509	0.533	-4.7	106	-0.04
6 CMT	1-Methylnaphthalene	0.612	0.599	2.1	102	-0.04
7 I	Acenaphthene-d10 (IS)	1.000	1.000	0.0	94	-0.03
8 S	2-Fluorobiphenyl (SURR)	1.285	1.380	-7.4	111	-0.04
9 CMT	Acenaphthylene	1.898	1.887	0.6	96	-0.04
10 CMT	Acenaphthene	1.123	1.159	-3.2	100	-0.04
11 CMT	Fluorene	1.271	1.310	-3.1	92	-0.04
12 I	Phenanthrene-d10 (IS)	1.000	1.000	0.0	88	-0.04
13 CMT	Phenanthrene	1.125	1.176	-4.5	91	-0.04
14 CMT	Anthracene	1.157	1.213	-4.8	89	-0.03
15 CMT	Fluoranthene	1.167	1.070	8.3	76	-0.03
16 I	Chrysene-d12 (IS)	1.000	1.000	0.0	81	-0.04
17 CMT	Pyrene	1.292	1.305	-1.0	75	-0.04
18 S	p-Terphenyl-d14 (SURR)	0.847	0.956	-12.9	89	-0.04
19 CMT	Benzo(a)anthracene	1.060	1.004	5.3	76	-0.04
20 CMT	Chrysene	1.004	0.965	3.9	77	-0.04
21 I	Perylene-d12 (IS)	1.000	1.000	0.0	83	-0.03
22 CMT	Benzo(b)fluoranthene	1.257	1.416	-12.6	88	0.00
23 CMT	Benzo(k)fluoranthene	1.404	1.425	-1.5	82	-0.08
24 CMT	Benzo(a)pyrene	1.242	1.269	-2.2	81	-0.03
25 CMT	Indeno(1,2,3-cd)pyrene	1.264	1.276	-0.9	85	-0.02
26 CMT	Dibenz(a,h)anthracene	1.035	1.103	-6.6	90	-0.04
27 CMT	Benzo(g,h,i)perylene	1.066	1.000	6.2	81	-0.03

Data File : C:\HPCHEM\1\DATA\013115\R_0529.D
 Acq On : 1 Feb 2015 12:59 pm
 Sample : 40/80 CCV SV-2547
 Misc : ISTD#SV-2532

Vial: 3
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Feb 2 8:18 2015

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.50	152	187289	40.00	ug/mL	-0.04
2) Naphthalene-d8 (IS)	5.95	136	786707	40.00	ug/mL	-0.04
7) Acenaphthene-d10 (IS)	8.11	164	376964	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	612852	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.59	240	503788	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.26	264	324013	40.00	ug/mL	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.11	82	399569	49.87	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	99.74%
8) 2-Fluorobiphenyl (SURR)	7.23	172	650298	53.69	ug/mL	-0.04
Spiked Amount	50.000	Range	11 - 104	Recovery	=	107.38%#
18) p-Terphenyl-d14 (SURR)	11.95	244	602118	56.44	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	112.88%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	5.98	128	805793	40.91	ug/mL	99
5) 2-Methylnaphthalene	6.80	141	419092	41.87	ug/mL	98
6) 1-Methylnaphthalene	6.93	142	471005	39.12	ug/mL	99
9) Acenaphthylene	7.93	152	711326	39.77	ug/mL	100
10) Acenaphthene	8.14	154	436916	41.27	ug/mL	98
11) Fluorene	8.78	166	493706	41.21	ug/mL	97
13) Phenanthrene	10.00	178	720905	41.84	ug/mL	99
14) Anthracene	10.07	178	743360	41.92	ug/mL	99
15) Fluoranthene	11.50	202	655609	36.65	ug/mL	98
17) Pyrene	11.79	202	657377	40.41	ug/mL	98
19) Benzo(a)anthracene	13.57	228	505576m	37.87	ug/mL	
20) Chrysene	13.64	228	486256	38.44	ug/mL	97
22) Benzo(b)fluoranthene	15.57	252	458658	45.05	ug/mL	94
23) Benzo(k)fluoranthene	15.53	252	461673m	40.58	ug/mL	
24) Benzo(a)pyrene	16.16	252	411186	40.87	ug/mL	97
25) Indeno(1,2,3-cd)pyrene	18.31	276	413322	40.38	ug/mL	93
26) Dibenz(a,h)anthracene	18.30	278	357478	42.63	ug/mL	88
27) Benzo(g,h,i)perylene	18.85	276	324108m	37.54	ug/mL	

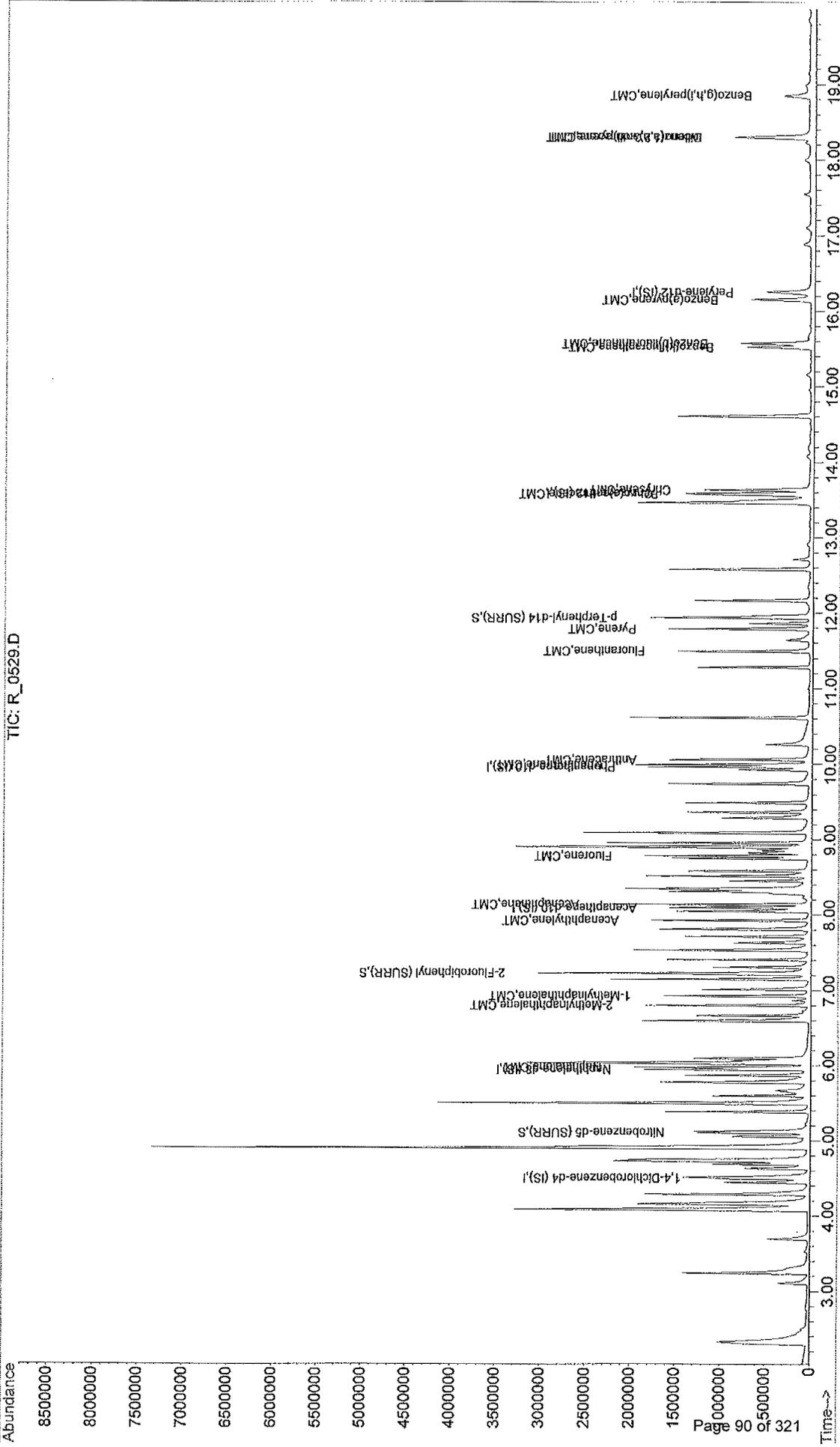
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0529.D
Acq On : 1 Feb 2015 12:59 pm
Sample : 40/80 CCV SV-2547
Misc : ISTD#SV-2532
MS Integration Params: rteint.p
Quant Time: Feb 2 8:18 2015

Vial: 3
Operator: AJG
Inst : 5972R
Multiplr: 1.00

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



8270 SVOC
Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)



Section 4

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0530.D Vial: 6
 Acq On : 1 Feb 2015 1:25 pm Operator: AJG
 Sample : PREP BLK PS3 1-28 /SV-2564 Inst : 5972R
 Misc : PB#012815PS3 30G/1.0ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:15 2015 Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	158843	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.95	136	638086	40.00	ug/mL	-0.04
7) Acenaphthene-d10 (IS)	8.10	164	361735	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	656118	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.59	240	397521	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.26	264	260516	40.00	ug/mL	-0.03

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.15	82	124740	19.19	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	38.38%
8) 2-Fluorobiphenyl (SURR)	7.24	172	235351	20.25	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	40.50%
18) p-Terphenyl-d14 (SURR)	11.95	244	289455	34.38	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	68.76%

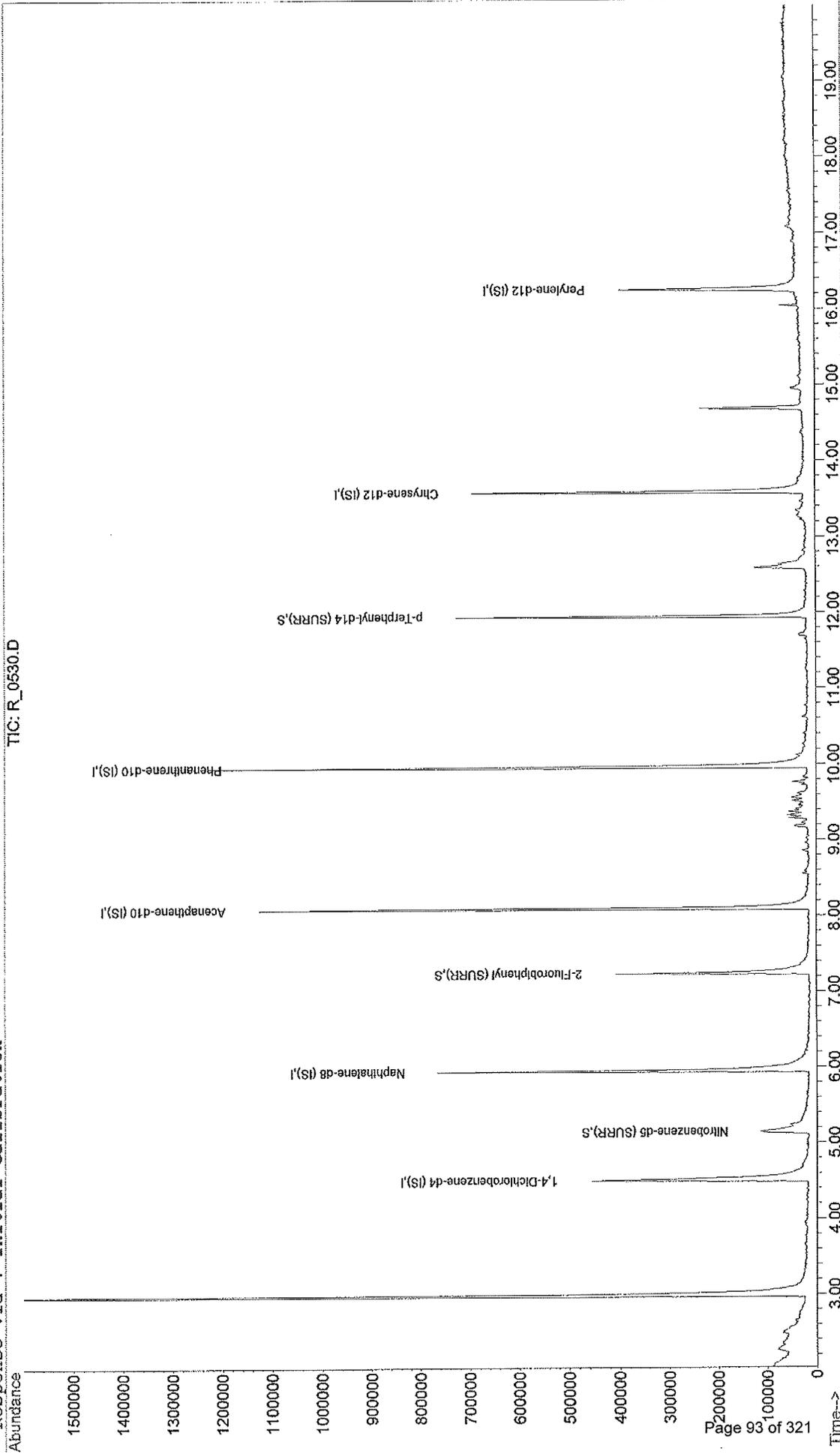
Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0131115\R_0530.D
Acq On : 1 Feb 2015 1:25 pm
Sample : PREP BLK PS3 1-28 /SV-2564
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:15 2015

Vial: 6
Operator: AJG
Inst : 5972R
Multiplr: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013115\R_0531.D Vial: 7
 Acq On : 1 Feb 2015 1:52 pm Operator: AJG
 Sample : LCS1 PS3 1-28 /SV-2565 Inst : 5972R
 Misc : PB#012815PS3 30G/1.0ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:16 2015 Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.50	152	165889	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.95	136	711536	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.10	164	409111	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.96	188	707850	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.60	240	459153	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.26	264	274096	40.00	ug/mL	-0.03

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.13	82	205425	28.35	ug/mL	-0.01
Spiked Amount	50.000	Range	11 - 104	Recovery	=	56.70%
8) 2-Fluorobiphenyl (SURR)	7.24	172	382559	29.10	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	58.20%
18) p-Terphenyl-d14 (SURR)	11.95	244	478202	49.18	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	98.36%

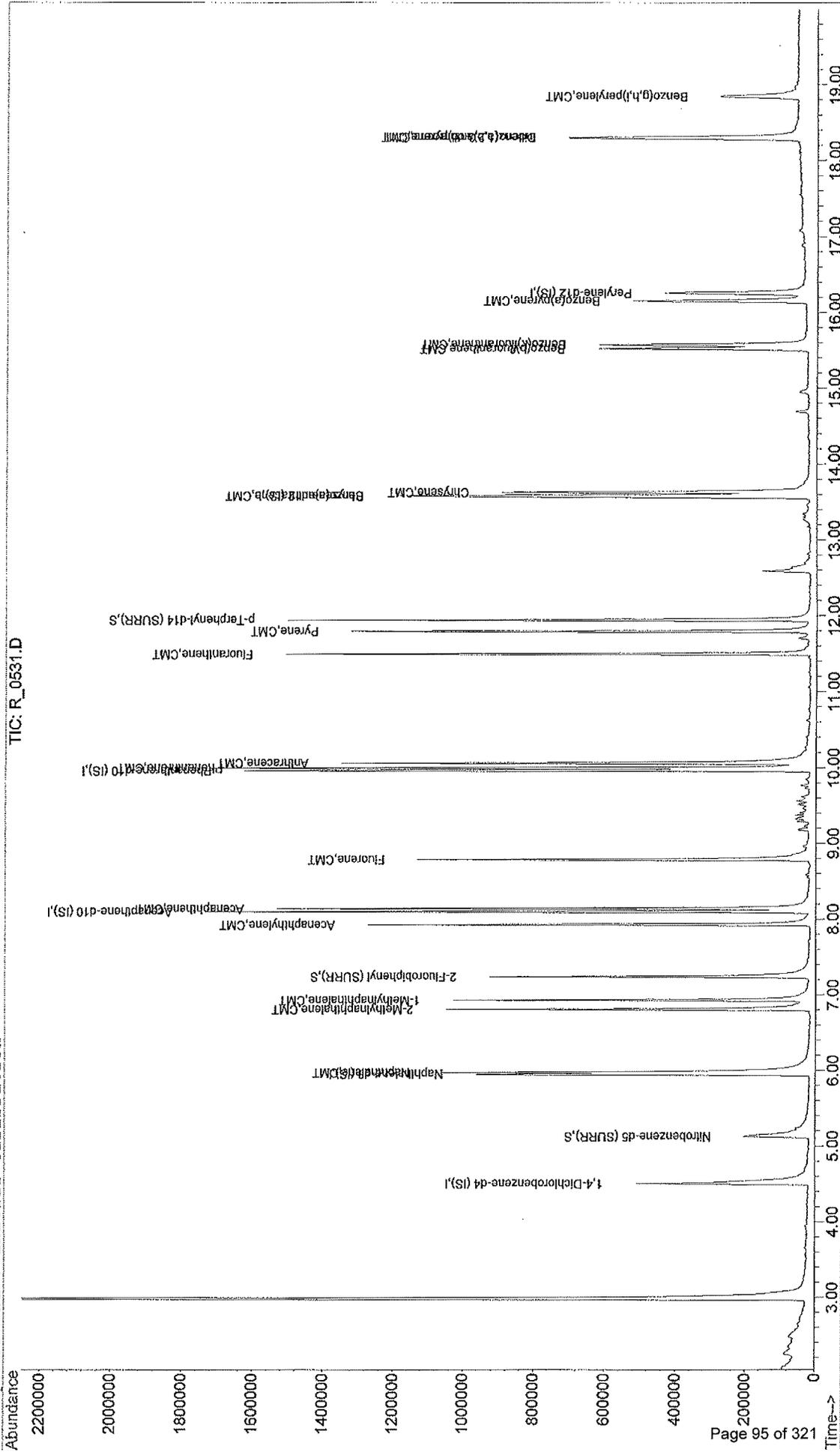
Target Compounds						Qvalue
4) Naphthalene	5.97	128	596542	33.49	ug/mL	99
5) 2-Methylnaphthalene	6.81	141	303657	33.54	ug/mL	95
6) 1-Methylnaphthalene	6.93	142	380880	34.98	ug/mL	100
9) Acenaphthylene	7.93	152	621592	32.02	ug/mL	99
10) Acenaphthene	8.14	154	386361	33.63	ug/mL	98
11) Fluorene	8.79	166	465543	35.80	ug/mL	99
13) Phenanthrene	10.00	178	716897	36.02	ug/mL	99
14) Anthracene	10.06	178	715952	34.95	ug/mL	99
15) Fluoranthene	11.50	202	672824	32.57	ug/mL	97
17) Pyrene	11.80	202	654833	44.17	ug/mL	98
19) Benzo(a)anthracene	13.58	228	434394m	35.70	ug/mL	
20) Chrysene	13.63	228	437469	37.94	ug/mL	97
22) Benzo(b)fluoranthene	15.52	252	374637m	43.50	ug/mL	
23) Benzo(k)fluoranthene	15.58	252	379712	39.46	ug/mL	97
24) Benzo(a)pyrene	16.16	252	351585	41.31	ug/mL	94
25) Indeno(1,2,3-cd)pyrene	18.30	276	350565	40.49	ug/mL	95
26) Dibenz(a,h)anthracene	18.30	278	290521	40.96	ug/mL	89
27) Benzo(g,h,i)perylene	18.85	276	251705	34.46	ug/mL	93

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0131115\NR_0531.D
 Acq On : 1 Feb 2015 1:52 pm
 Sample : LCS1 PS3 1-28 /SV-2565
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:16 2015

Vial: 7
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00
 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013115\R_0532.D
 Acq On : 1 Feb 2015 2:18 pm
 Sample : LCS2 PS3 1-28 /SV-2565
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:16 2015

Vial: 8
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards R.T. QIon Response Conc Units Dev(Min)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.50	152	173919	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.95	136	725289	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.10	164	390589	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	711420	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.60	240	475167	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.26	264	294378	40.00	ug/mL	-0.03

System Monitoring Compounds

3) Nitrobenzene-d5 (SURR)	5.13	82	268346	36.33	ug/mL	-0.01
Spiked Amount	50.000	Range	11 - 104	Recovery	=	72.66%
8) 2-Fluorobiphenyl (SURR)	7.24	172	478101	38.10	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	76.20%
18) p-Terphenyl-d14 (SURR)	11.94	244	605474	60.17	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	120.34%

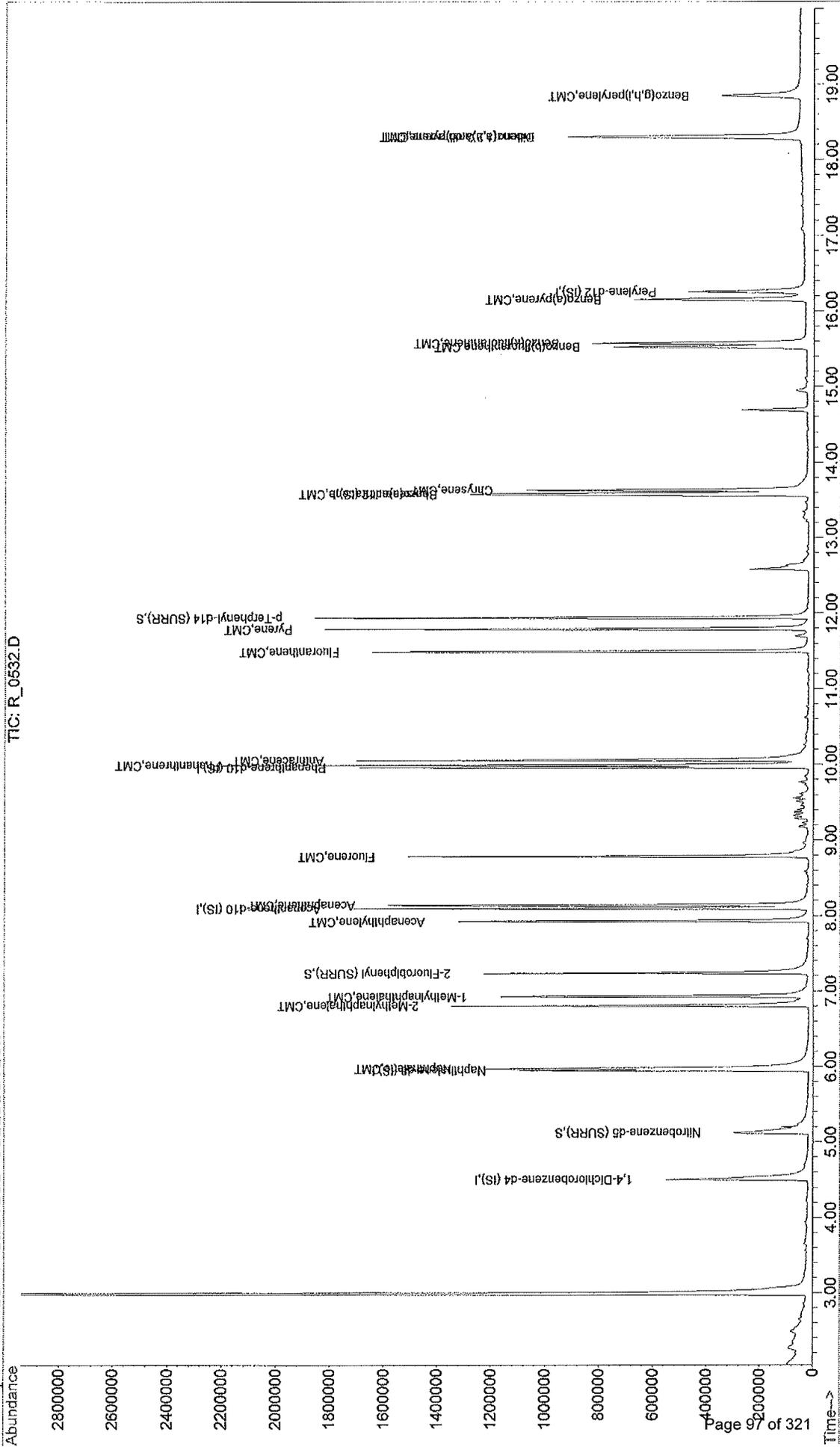
Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	5.98	128	735990	40.53	ug/mL	99
5) 2-Methylnaphthalene	6.81	141	370553	40.16	ug/mL	98
6) 1-Methylnaphthalene	6.93	142	460667	41.50	ug/mL	98
9) Acenaphthylene	7.93	152	723737	39.05	ug/mL	99
10) Acenaphthene	8.15	154	458260	41.78	ug/mL	99
11) Fluorene	8.79	166	534810	43.08	ug/mL	98
13) Phenanthrene	10.00	178	871047m	43.54	ug/mL	
14) Anthracene	10.06	178	876447	42.57	ug/mL	99
15) Fluoranthene	11.50	202	809538	38.99	ug/mL	97
17) Pyrene	11.80	202	803468	52.37	ug/mL	99
19) Benzo(a)anthracene	13.58	228	529846m	42.07	ug/mL	
20) Chrysene	13.64	228	530602	44.47	ug/mL	98
22) Benzo(b)fluoranthene	15.53	252	451020m	48.76	ug/mL	
23) Benzo(k)fluoranthene	15.58	252	483874	46.82	ug/mL	97
24) Benzo(a)pyrene	16.16	252	426109	46.62	ug/mL	96
25) Indeno(1,2,3-cd)pyrene	18.31	276	433027	46.57	ug/mL	94
26) Dibenz(a,h)anthracene	18.30	278	364030	47.78	ug/mL	89
27) Benzo(g,h,i)perylene	18.85	276	319697	40.75	ug/mL	93

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0532.D
 Vial: 8
 Acq On : 1 Feb 2015 2:18 pm
 Operator: AJG
 Sample : LCS2 PS3 1-28 /SV-2565
 Inst : 5972R
 Misc : PB#012815PS3 30G/1.0ML
 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:16 2015
 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013115\R_0534.D
 Acq On : 1 Feb 2015 3:11 pm
 Sample : 15-1333MS D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:17 2015

Vial: 10
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	176813	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.95	136	789122	40.00	ug/mL	-0.04
7) Acenaphthene-d10 (IS)	8.10	164	453517	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	744191	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.60	240	481200	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.27	264	325399	40.00	ug/mL	-0.02

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.13	82	198042	24.64	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	49.28%
8) 2-Fluorobiphenyl (SURR)	7.24	172	405623	27.84	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	55.68%
18) p-Terphenyl-d14 (SURR)	11.95	244	407441	39.98	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	79.96%

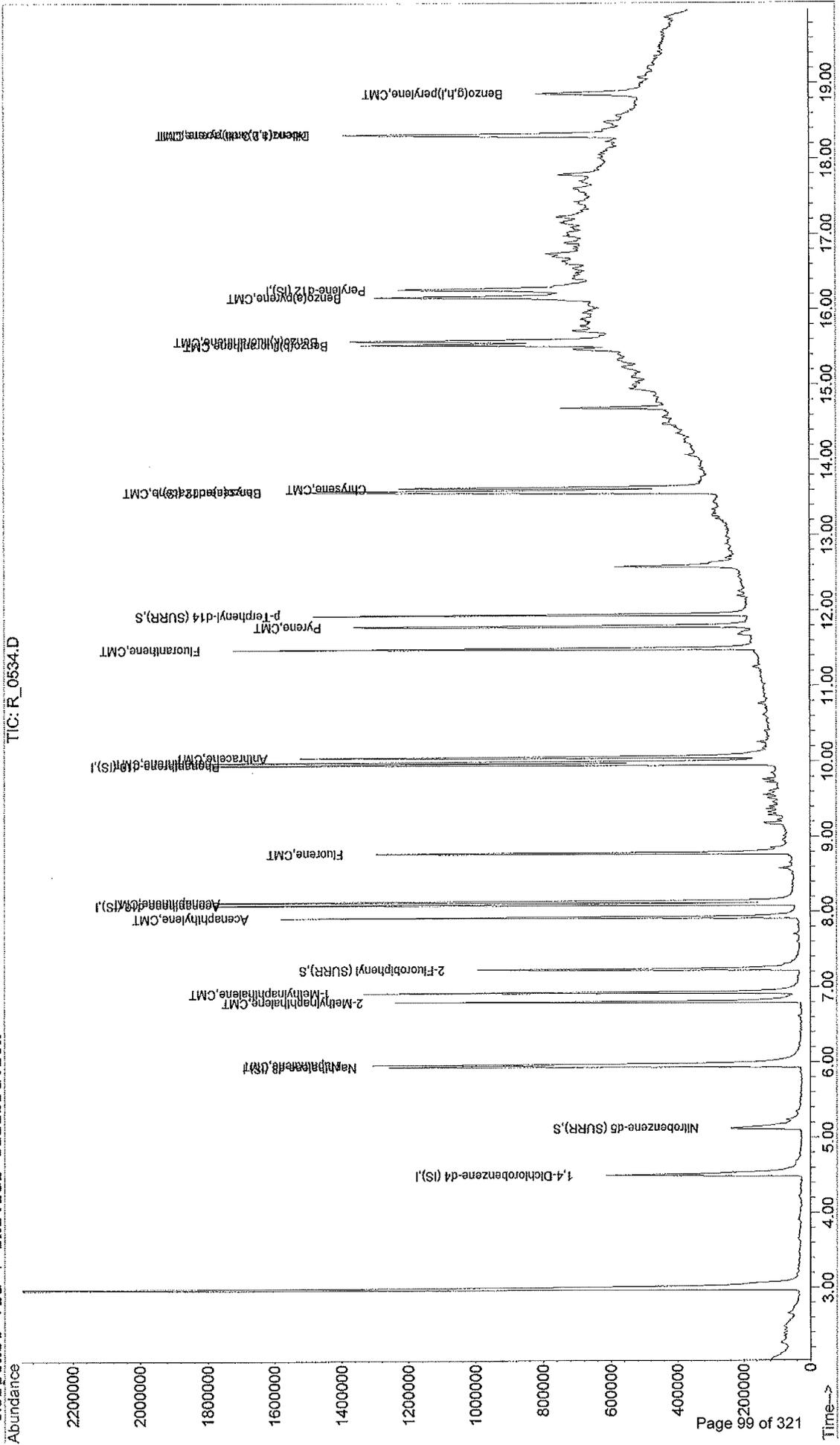
Target Compounds						Qvalue
4) Naphthalene	5.98	128	656997	33.25	ug/mL	99
5) 2-Methylnaphthalene	6.81	141	353896	35.25	ug/mL	96
6) 1-Methylnaphthalene	6.93	142	422376	34.98	ug/mL	97
9) Acenaphthylene	7.93	152	690448	32.09	ug/mL	98
10) Acenaphthene	8.14	154	457396	35.91	ug/mL	97
11) Fluorene	8.79	166	537499	37.29	ug/mL	100
13) Phenanthrene	10.00	178	776426	37.11	ug/mL	99
14) Anthracene	10.07	178	751809	34.91	ug/mL	99
15) Fluoranthene	11.50	202	642771	29.59	ug/mL	97
17) Pyrene	11.80	202	628014	40.42	ug/mL	98
19) Benzo(a)anthracene	13.58	228	451632	35.41	ug/mL	98
20) Chrysene	13.65	228	462738	38.30	ug/mL	99
22) Benzo(b)fluoranthene	15.54	252	436936m	42.74	ug/mL	
23) Benzo(k)fluoranthene	15.59	252	433170	37.92	ug/mL	96
24) Benzo(a)pyrene	16.17	252	388701	38.47	ug/mL	95
25) Indeno(1,2,3-cd)pyrene	18.33	276	392988	38.23	ug/mL	93
26) Dibenz(a,h)anthracene	18.33	278	332903	39.53	ug/mL	88
27) Benzo(g,h,i)perylene	18.87	276	274378	31.64	ug/mL	93

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0131115\N_0534.D
 Acq On : 1 Feb 2015 3:11 pm
 Sample : 15-1333MS D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:17 2015

Vial: 10
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00
 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013115\R_0535.D
 Acq On : 1 Feb 2015 3:37 pm
 Sample : 15-1333MSD D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 8:54 2015

Vial: 11
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	197455	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.95	136	853007	40.00	ug/mL	-0.04
7) Acenaphthene-d10 (IS)	8.11	164	481399	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	794121	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.60	240	540979	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.28	264	374550	40.00	ug/mL	0.00

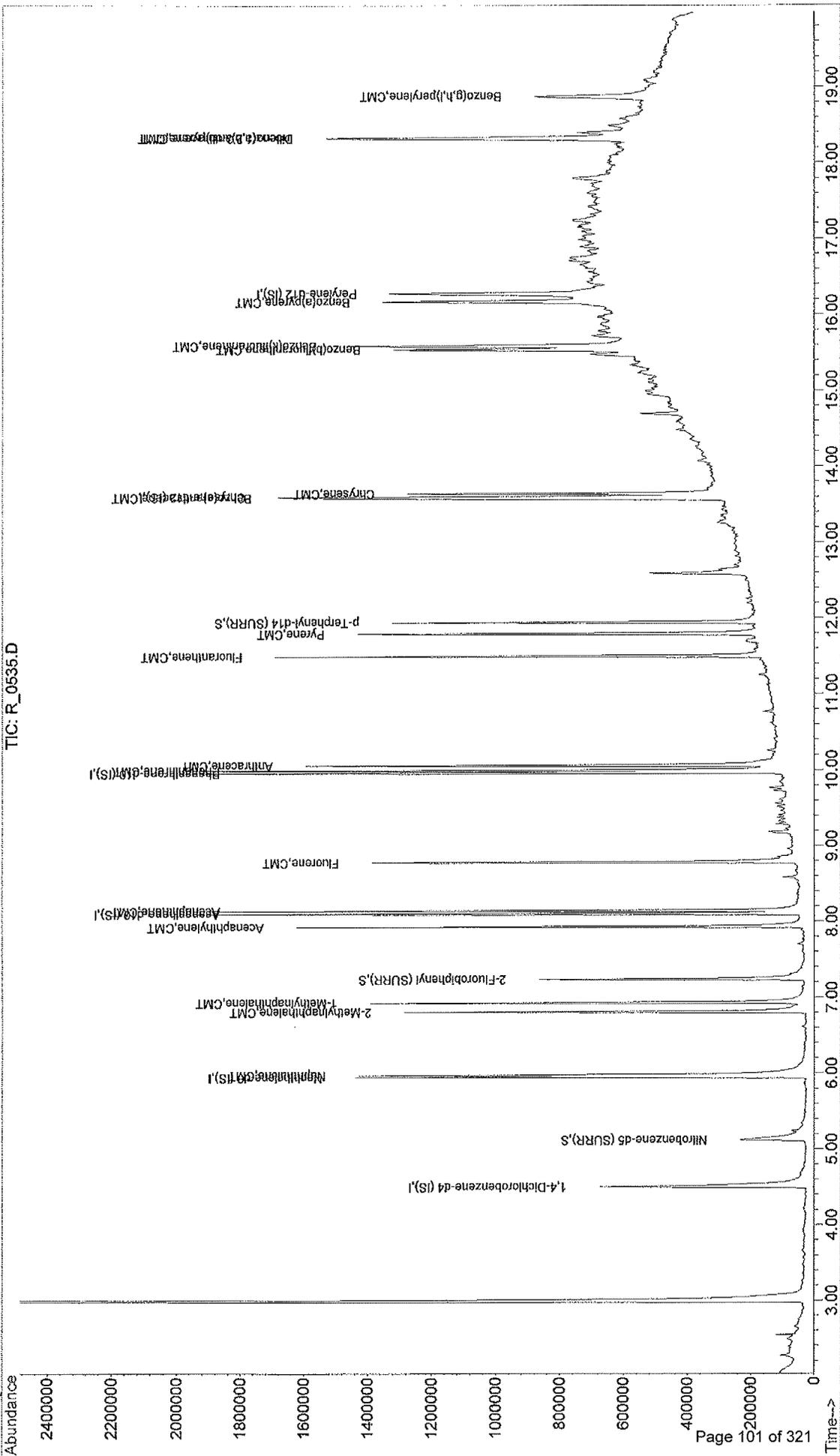
System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.12	82	199710	22.99	ug/mL	-0.02
Spiked Amount	50.000	Range	11 - 104	Recovery	=	45.98%
8) 2-Fluorobiphenyl (SURR)	7.24	172	369888	23.91	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	47.82%
18) p-Terphenyl-d14 (SURR)	11.95	244	358423	31.29	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	62.58%

Target Compounds						Qvalue
4) Naphthalene	5.98	128	721095	33.77	ug/mL	99
5) 2-Methylnaphthalene	6.81	141	372666	34.34	ug/mL	95
6) 1-Methylnaphthalene	6.93	142	446219	34.18	ug/mL	100
9) Acenaphthylene	7.93	152	713760	31.25	ug/mL	99
10) Acenaphthene	8.14	154	471436	34.87	ug/mL	99
11) Fluorene	8.78	166	549816	35.93	ug/mL	100
13) Phenanthrene	10.00	178	771430	34.55	ug/mL	99
14) Anthracene	10.07	178	770455	33.53	ug/mL	100
15) Fluoranthene	11.50	202	650708	28.08	ug/mL	97
17) Pyrene	11.80	202	643566	36.84	ug/mL	98
19) Benzo(a)anthracene	13.58	228	481605	33.59	ug/mL	100
20) Chrysene	13.65	228	479753	35.32	ug/mL	98
22) Benzo(b)fluoranthene	15.55	252	457211	38.85	ug/mL	96
23) Benzo(k)fluoranthene	15.59	252	468188	35.60	ug/mL	97
24) Benzo(a)pyrene	16.18	252	418761	36.01	ug/mL	96
25) Indeno(1,2,3-cd)pyrene	18.33	276	436589	36.90	ug/mL	93
26) Dibenz(a,h)anthracene	18.33	278	372890	38.47	ug/mL	89
27) Benzo(g,h,i)perylene	18.88	276	310122	31.07	ug/mL	93

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0535.D
Acq On : 1 Feb 2015 3:37 pm
Sample : 15-1333MSD D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 8:54 2015
Vial: 11
Operator: AJG
Inst : 5972R
Multiplr: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



8270 SVOC

- Raw Sample Data



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0533.D
 Acq On : 1 Feb 2015 2:44 pm
 Sample : 15-1333 D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:16 2015

Vial: 9
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.50	152	196480	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.95	136	789408	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.10	164	441039	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	719975	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.60	240	494756	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.27	264	362600	40.00	ug/mL	-0.02

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.13	82	198573	24.70	ug/mL	-0.01
Spiked Amount	50.000	Range	11 - 104	Recovery	=	49.40%
8) 2-Fluorobiphenyl (SURR)	7.24	172	366106	25.83	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	51.66%
18) p-Terphenyl-d14 (SURR)	11.95	244	400191	38.20	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	76.40%

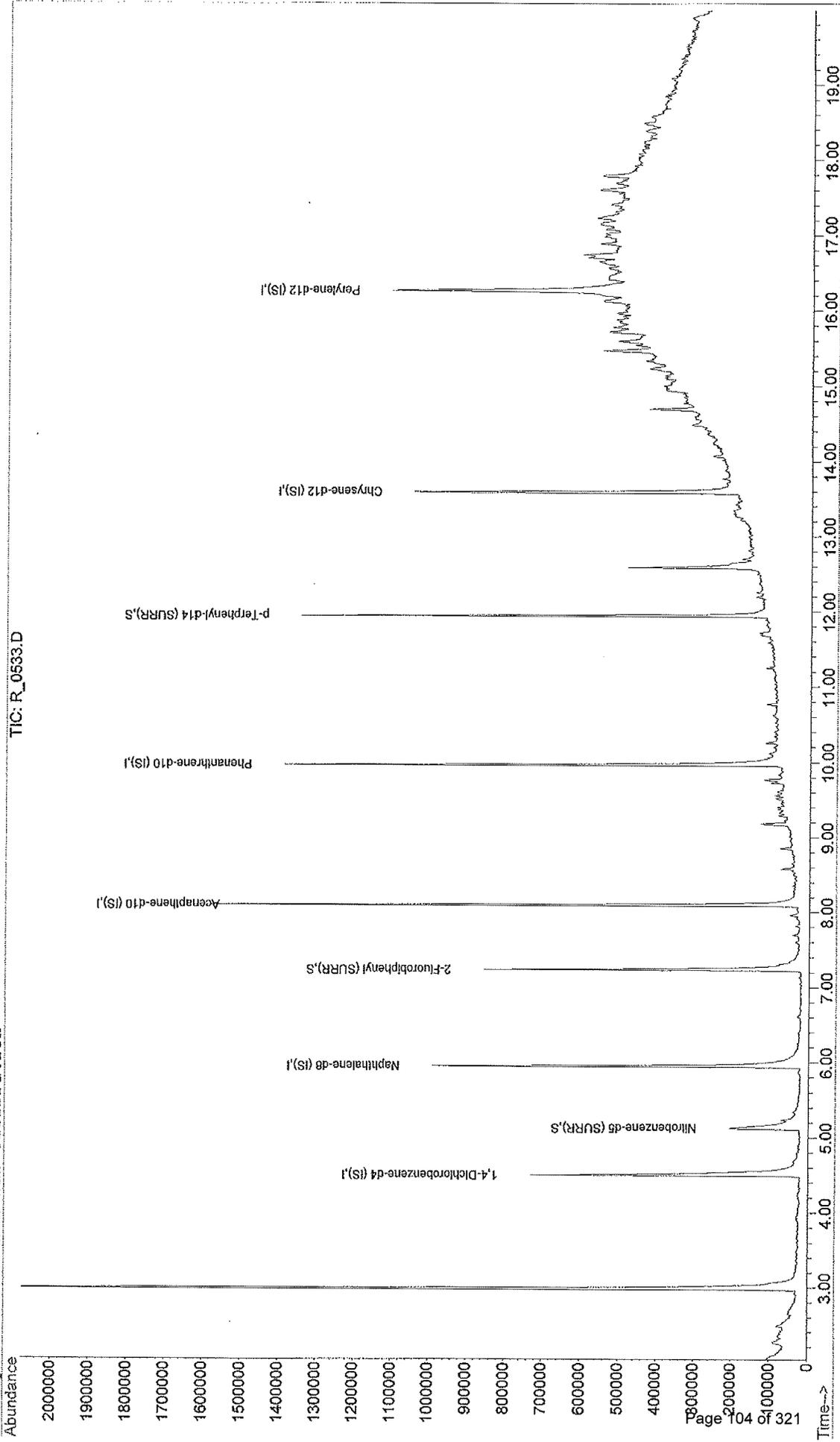
Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0533.D
Acq On : 1 Feb 2015 2:44 pm
Sample : 15-1333 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:16 2015

Vial: 9
Operator: AJG
Inst : 5972R
Multiplr: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0536.D
 Acq On : 1 Feb 2015 4:03 pm
 Sample : 15-1334 D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:18 2015

Vial: 12
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	186417	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	796644	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	408681	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	651545	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.59	240	393054	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.26	264	259665	40.00	ug/mL	-0.03

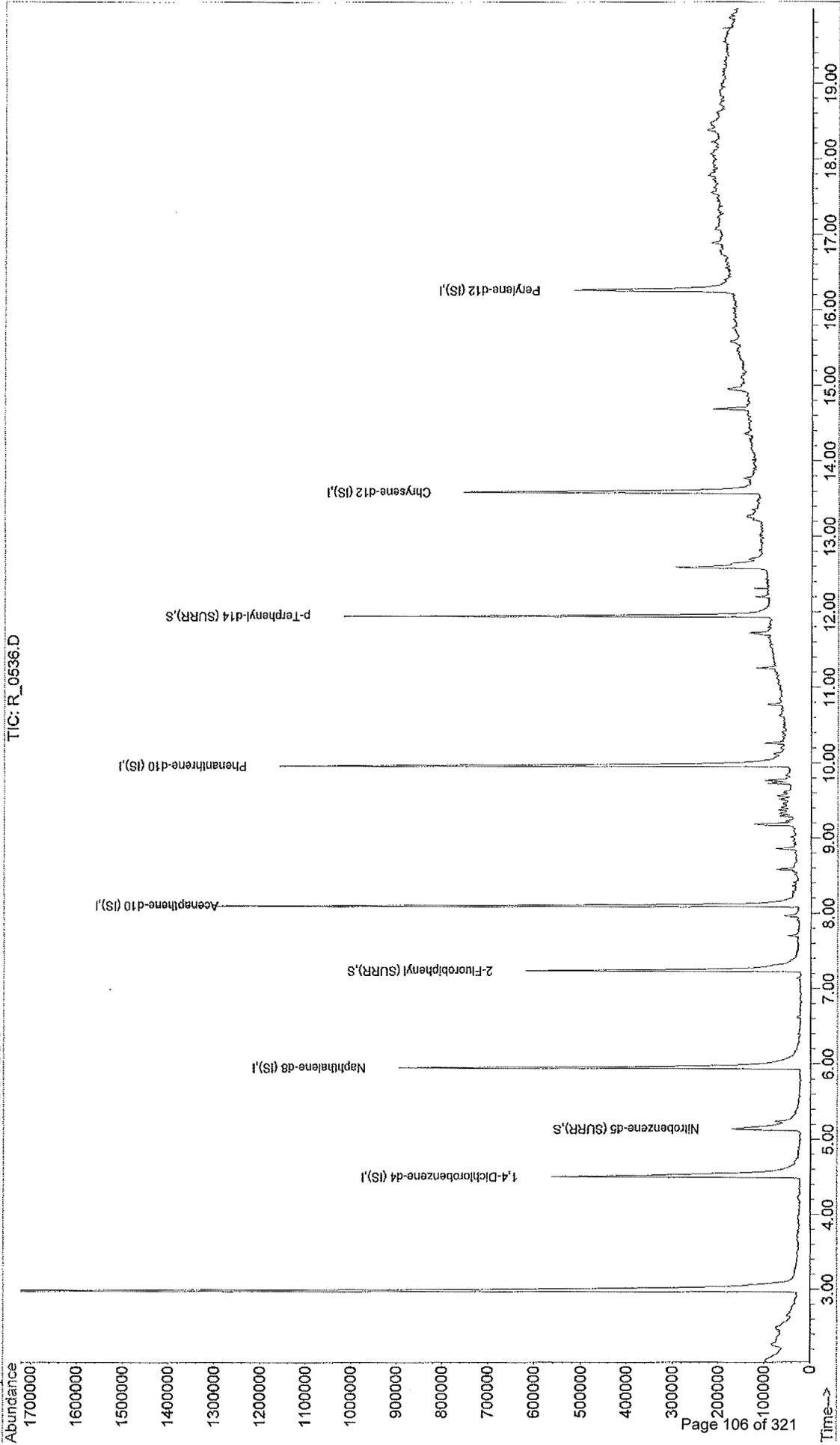
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	164615	20.29	ug/mL	0.00
Spiked Amount 50.000	Range	11 - 104	Recovery	=	40.58%	
8) 2-Fluorobiphenyl (SURR)	7.24	172	318610	24.26	ug/mL	-0.03
Spiked Amount 50.000	Range	11 - 104	Recovery	=	48.52%	
18) p-Terphenyl-d14 (SURR)	11.95	244	337803	40.58	ug/mL	-0.04
Spiked Amount 50.000	Range	26 - 136	Recovery	=	81.16%	

Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0536.D
Acq On : 1 Feb 2015 4:03 pm Vial: 12
Sample : 15-1334 D PS3 1-28 Operator: AJG
Misc : PB#012815PS3 30G/1.0ML Inst : 5972R
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Feb 2 9:18 2015 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\NR_0537.D
 Acq On : 1 Feb 2015 4:30 pm
 Sample : 15-1335 D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:18 2015

Vial: 13
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	177818	40.00	ug/mL	-0.02
2) Naphthalene-d8 (IS)	5.95	136	730160	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.10	164	381577	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	625351	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.60	240	395857	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.27	264	274269	40.00	ug/mL	-0.02

System Monitoring Compounds

3) Nitrobenzene-d5 (SURR)	5.14	82	214630	28.86	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	57.72%
8) 2-Fluorobiphenyl (SURR)	7.24	172	367628	29.98	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	59.96%
18) p-Terphenyl-d14 (SURR)	11.95	244	410771	49.00	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	98.00%

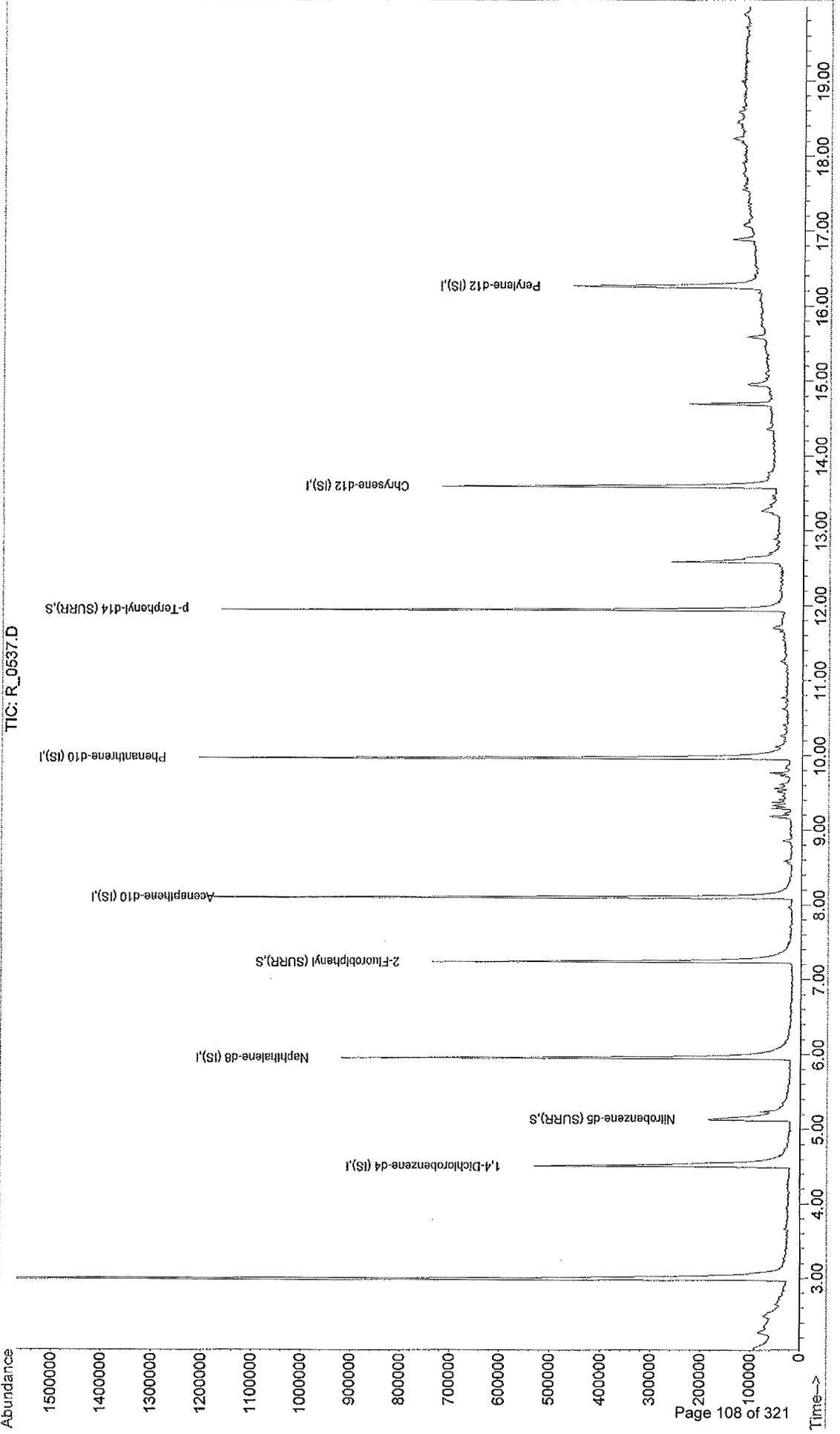
Target Compounds

Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\NR_0537.D
Acq On : 1 Feb 2015 4:30 pm
Sample : 15-1335 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:18 2015
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0538.D
 Acq On : 1 Feb 2015 4:56 pm
 Sample : 15-1336 D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:18 2015

Vial: 14
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	188027	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	795842	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	529761	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.98	188	906097	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.60	240	504199	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.26	264	338185	40.00	ug/mL	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	187138	23.09	ug/mL	0.00
Spiked Amount 50.000	Range	11 - 104	Recovery	=	46.18%	
8) 2-Fluorobiphenyl (SURR)	7.24	172	388838	22.84	ug/mL	-0.03
Spiked Amount 50.000	Range	11 - 104	Recovery	=	45.68%	
18) p-Terphenyl-d14 (SURR)	11.95	244	424570	39.76	ug/mL	-0.04
Spiked Amount 50.000	Range	26 - 136	Recovery	=	79.52%	

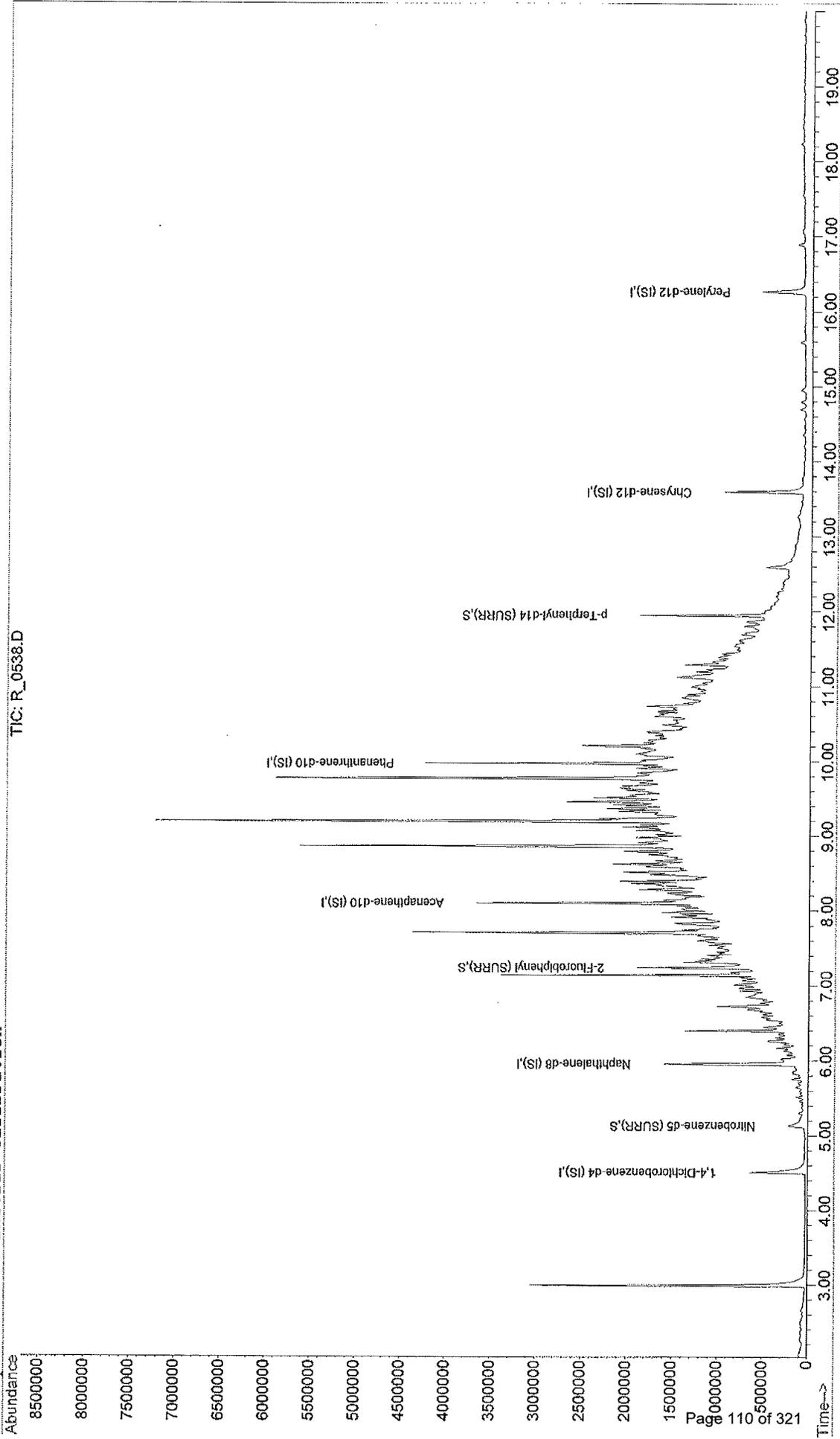
Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0538.D
Acq On : 1 Feb 2015 4:56 pm
Sample : 15-1336 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:18 2015

Vial: 14
Operator: AJG
Inst : 5972R
Multiplier: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



TIC: R_0538.D

Data File : C:\HPCHEM\1\DATA\013115\R_0539.D Vial: 15
 Acq On : 1 Feb 2015 5:22 pm Operator: AJG
 Sample : 15-1337 D PS3 1-28 Inst : 5972R
 Misc : PB#012815PS3 30G/1.0ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:18 2015 Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	208298	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	849913	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	467733	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	743502	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.59	240	473488	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.26	264	325423	40.00	ug/mL	-0.03

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.13	82	249197	28.79	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery	=	57.58%	
8) 2-Fluorobiphenyl (SURR)	7.24	172	454059	30.21	ug/mL	-0.03
Spiked Amount	50.000	Range 11 - 104	Recovery	=	60.42%	
18) p-Terphenyl-d14 (SURR)	11.95	244	585412	58.38	ug/mL	-0.04
Spiked Amount	50.000	Range 26 - 136	Recovery	=	116.76%	

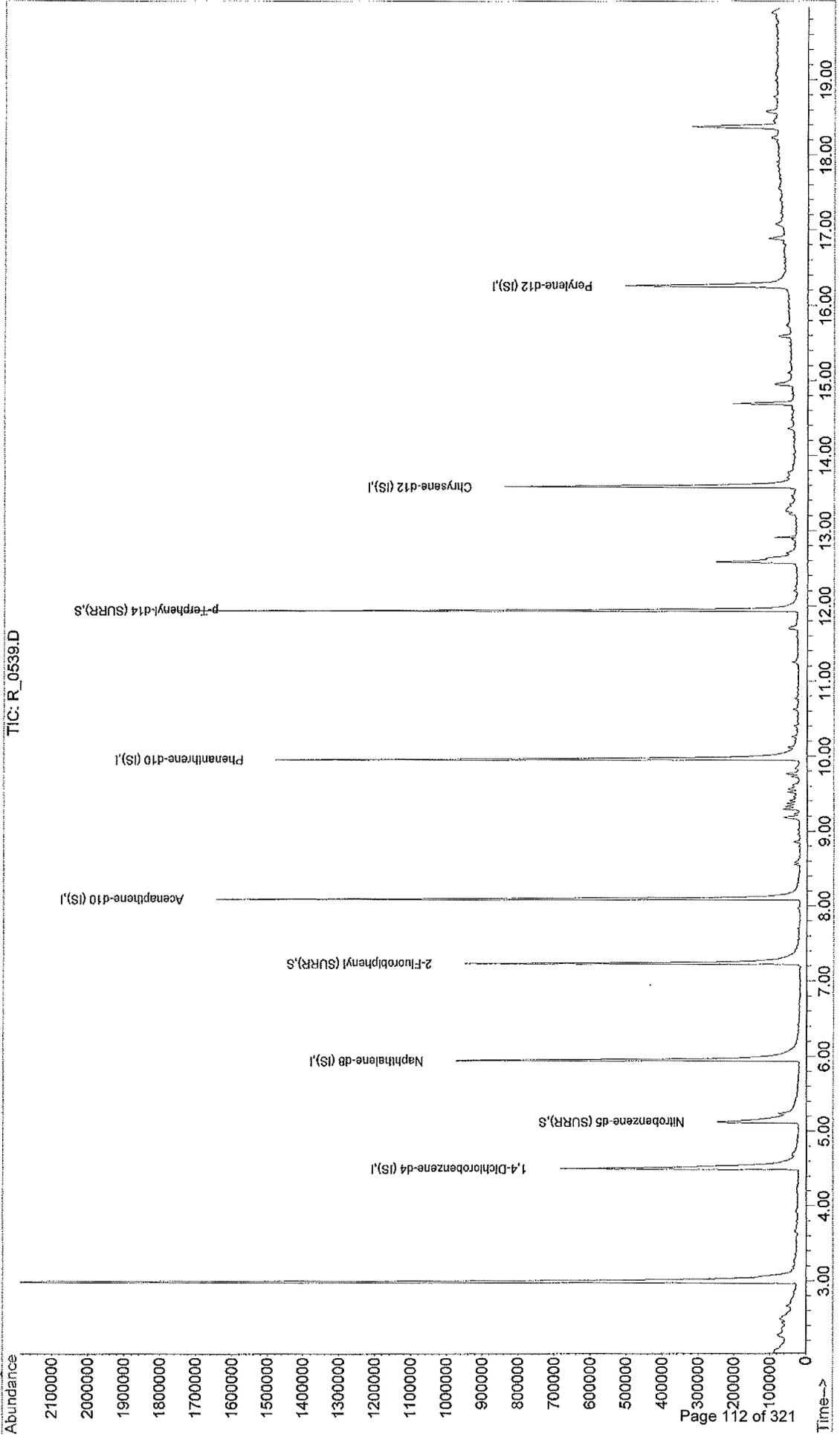
Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0539.D
Acq On : 1 Feb 2015 5:22 pm
Sample : 15-1337 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:18 2015

Vial: 15
Operator: AJG
Inst : 5972R
Multiplr: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0540.D
 Acq On : 1 Feb 2015 5:49 pm
 Sample : 15-1338 D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:19 2015

Vial: 16
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	173451	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	717258	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	404142	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	661611	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.59	240	404004	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.26	264	266151	40.00	ug/mL	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	203651	27.88	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	55.76%
8) 2-Fluorobiphenyl (SURR)	7.24	172	379027	29.19	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	58.38%
18) p-Terphenyl-d14 (SURR)	11.95	244	392072m	45.83	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	91.66%

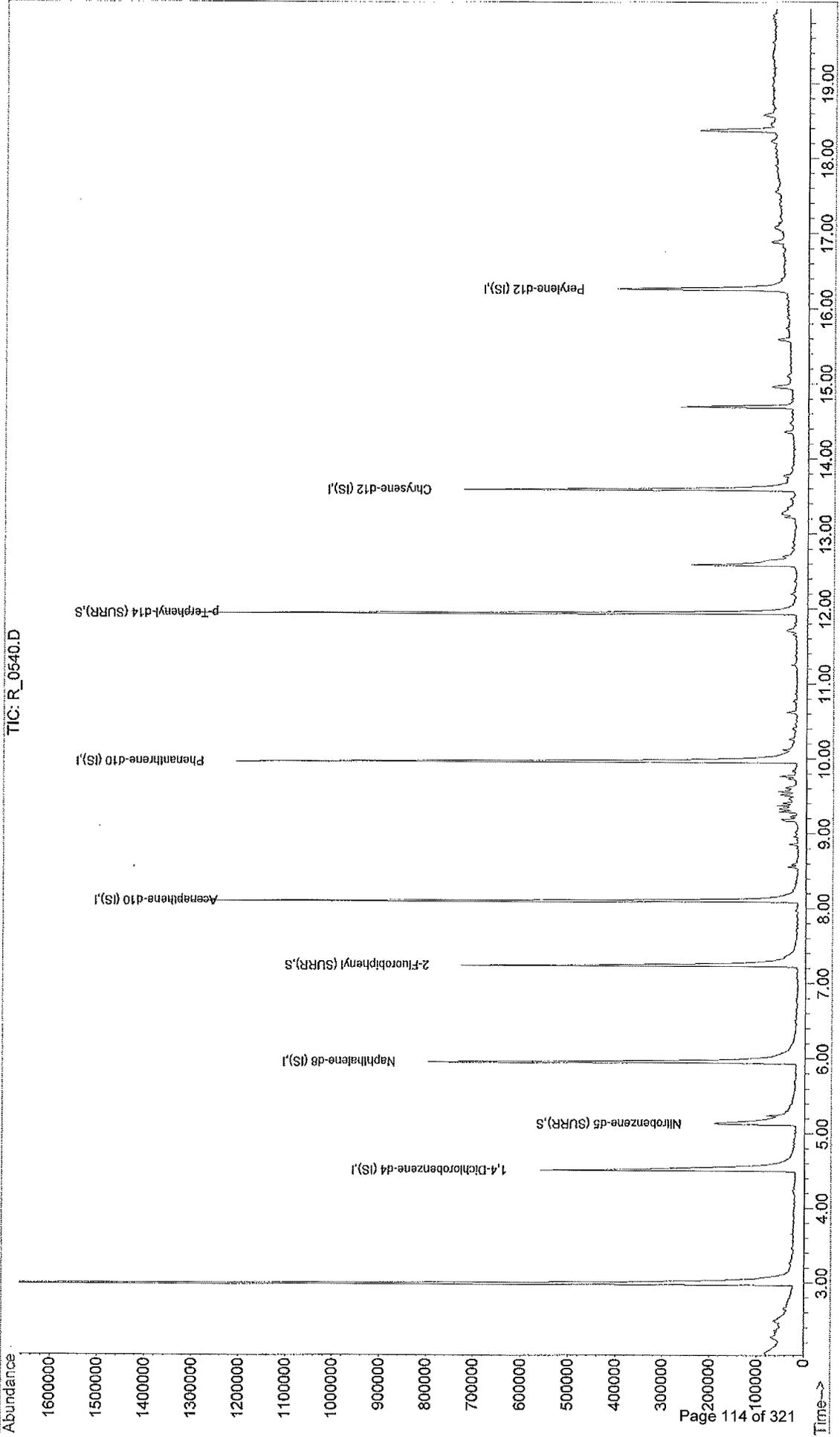
Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0540.D
Acq On : 1 Feb 2015 5:49 pm
Sample : 15-1338 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:19 2015

Vial: 16
Operator: AJG
Inst : 5972R
Multiplier: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0541.D
 Acq On : 1 Feb 2015 6:15 pm
 Sample : 15-1339 D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:19 2015

Vial: 17
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	186882	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	742699	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.10	164	434311	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	659086	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.60	240	446666	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.28	264	327451	40.00	ug/mL	-0.01

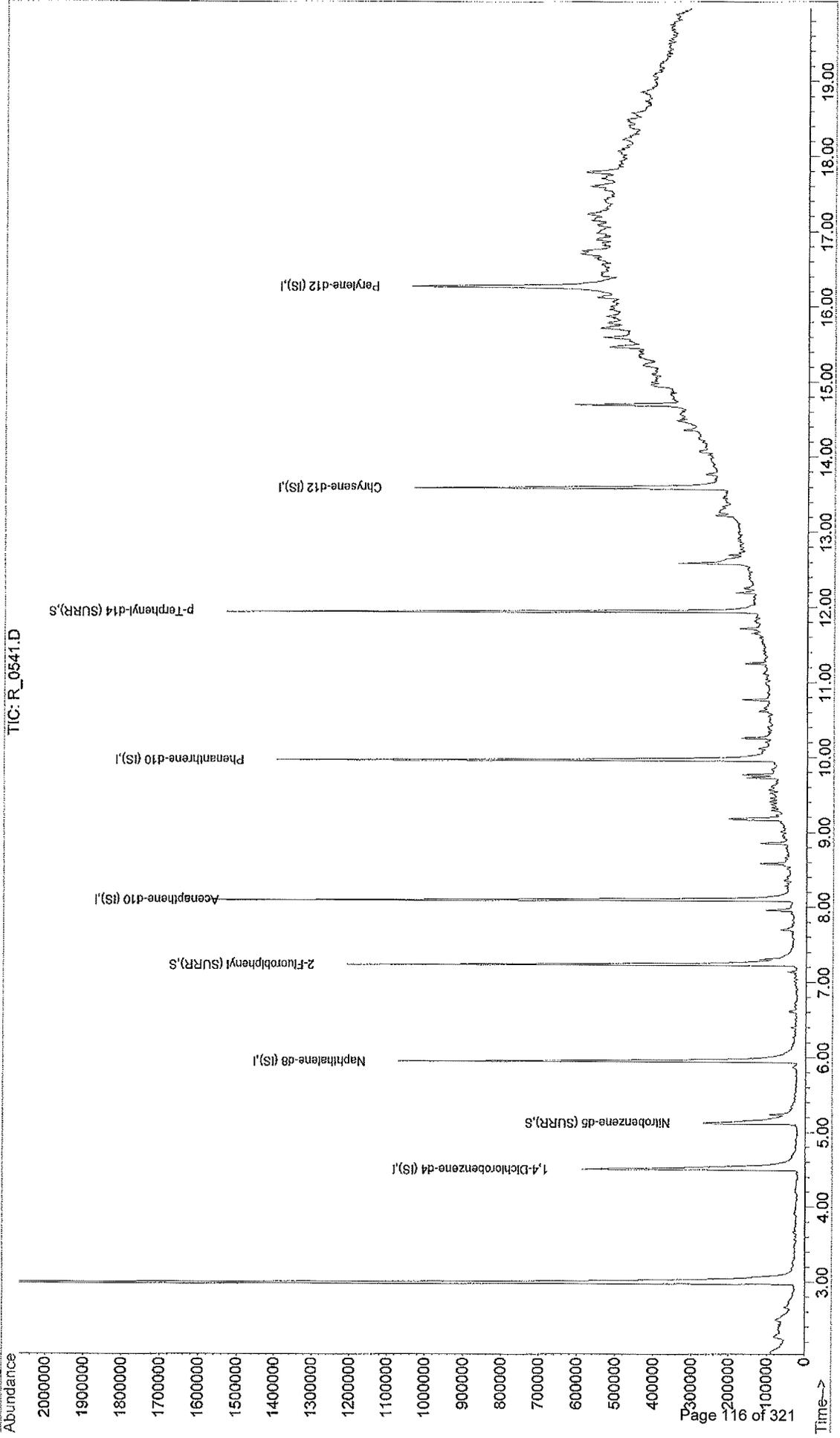
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	245747	32.49	ug/mL	-0.01
Spiked Amount	50.000	Range 11 - 104	Recovery =	64.98%		
8) 2-Fluorobiphenyl (SURR)	7.24	172	486544	34.87	ug/mL	-0.03
Spiked Amount	50.000	Range 11 - 104	Recovery =	69.74%		
18) p-Terphenyl-d14 (SURR)	11.95	244	482515	51.01	ug/mL	-0.04
Spiked Amount	50.000	Range 26 - 136	Recovery =	102.02%		

Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0541.D
Acq On : 1 Feb 2015 6:15 pm
Sample : 15-1339 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:19 2015
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0542.D
 Acq On : 1 Feb 2015 6:41 pm
 Sample : 15-1340 D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:19 2015

Vial: 18
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	152012	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	611253	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	339608	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	555786	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.60	240	370627	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.27	264	245035	40.00	ug/mL	-0.02

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.13	82	205259	32.97	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	65.94%		
8) 2-Fluorobiphenyl (SURR)	7.24	172	389712	35.71	ug/mL	-0.03
Spiked Amount	50.000	Range 11 - 104	Recovery =	71.42%		
18) p-Terphenyl-d14 (SURR)	11.95	244	482624	61.49	ug/mL	-0.03
Spiked Amount	50.000	Range 26 - 136	Recovery =	122.98%		

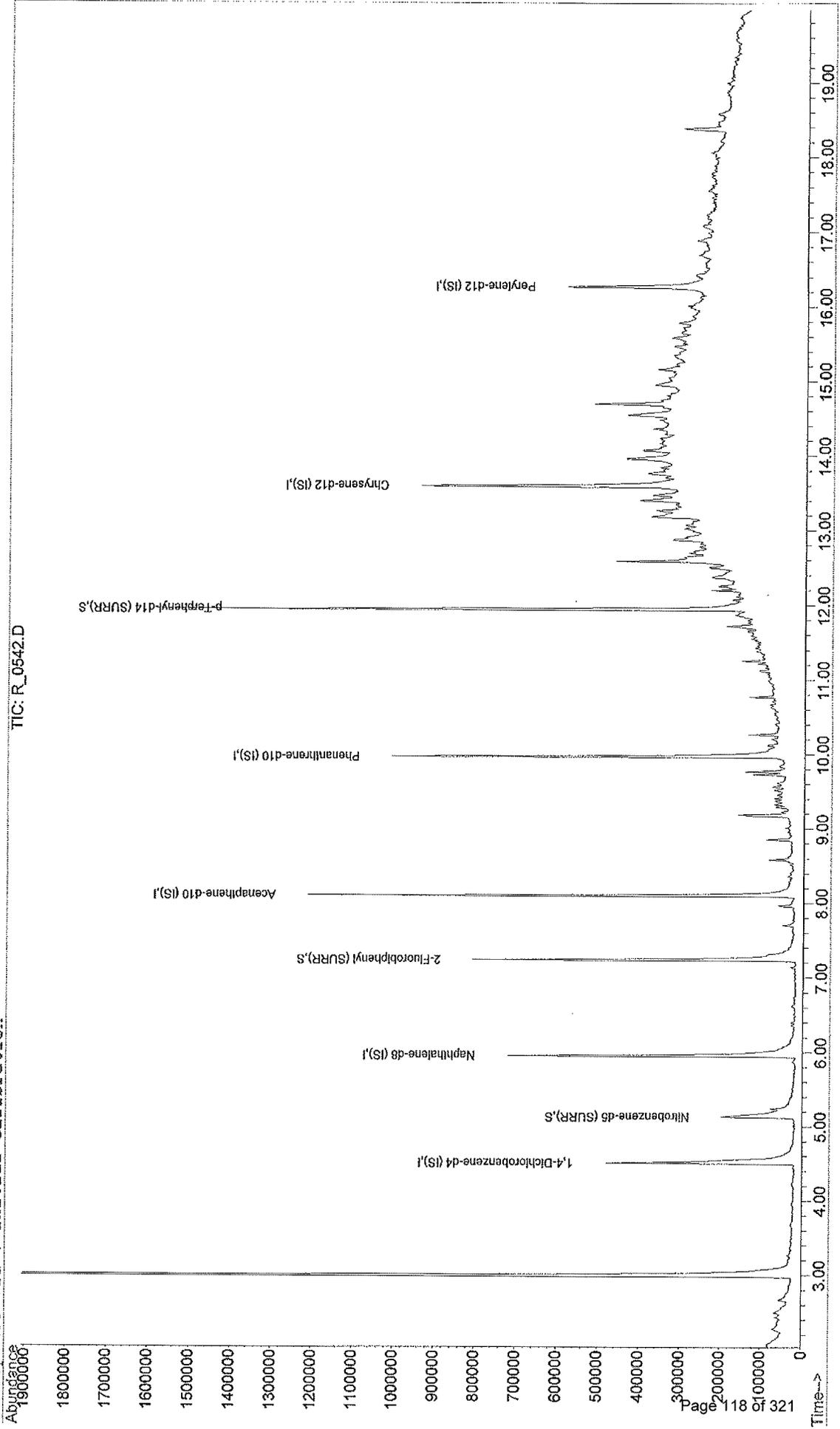
Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0131115\R_0542.D
Acq On : 1 Feb 2015 6:41 pm
Sample : 15-1340 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:19 2015

Vial: 18
Operator: AJG
Inst : 5972R
Multiplr: 1.00
Quant Results File: 010715FN.RES

Method : C:\HPCHEM\1\METHODS\010715FN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0543.D
 Acq On : 1 Feb 2015 7:08 pm
 Sample : 15-1341 D PS3 1-28
 Misc : PB#012815PS3 30G/1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:20 2015

Vial: 19
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	197765	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	804093	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	472166	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	735001	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.61	240	607140	40.00	ug/mL	-0.02
21) Perylene-d12 (IS)	16.29	264	401128	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	240301	29.34	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	58.68%		
8) 2-Fluorobiphenyl (SURR)	7.24	172	491930	32.43	ug/mL	-0.03
Spiked Amount 50.000	Range 11 - 104		Recovery =	64.86%		
18) p-Terphenyl-d14 (SURR)	11.95	244	615449	47.87	ug/mL	-0.04
Spiked Amount 50.000	Range 26 - 136		Recovery =	95.74%		

Target Compounds Qvalue

Quantitation Report

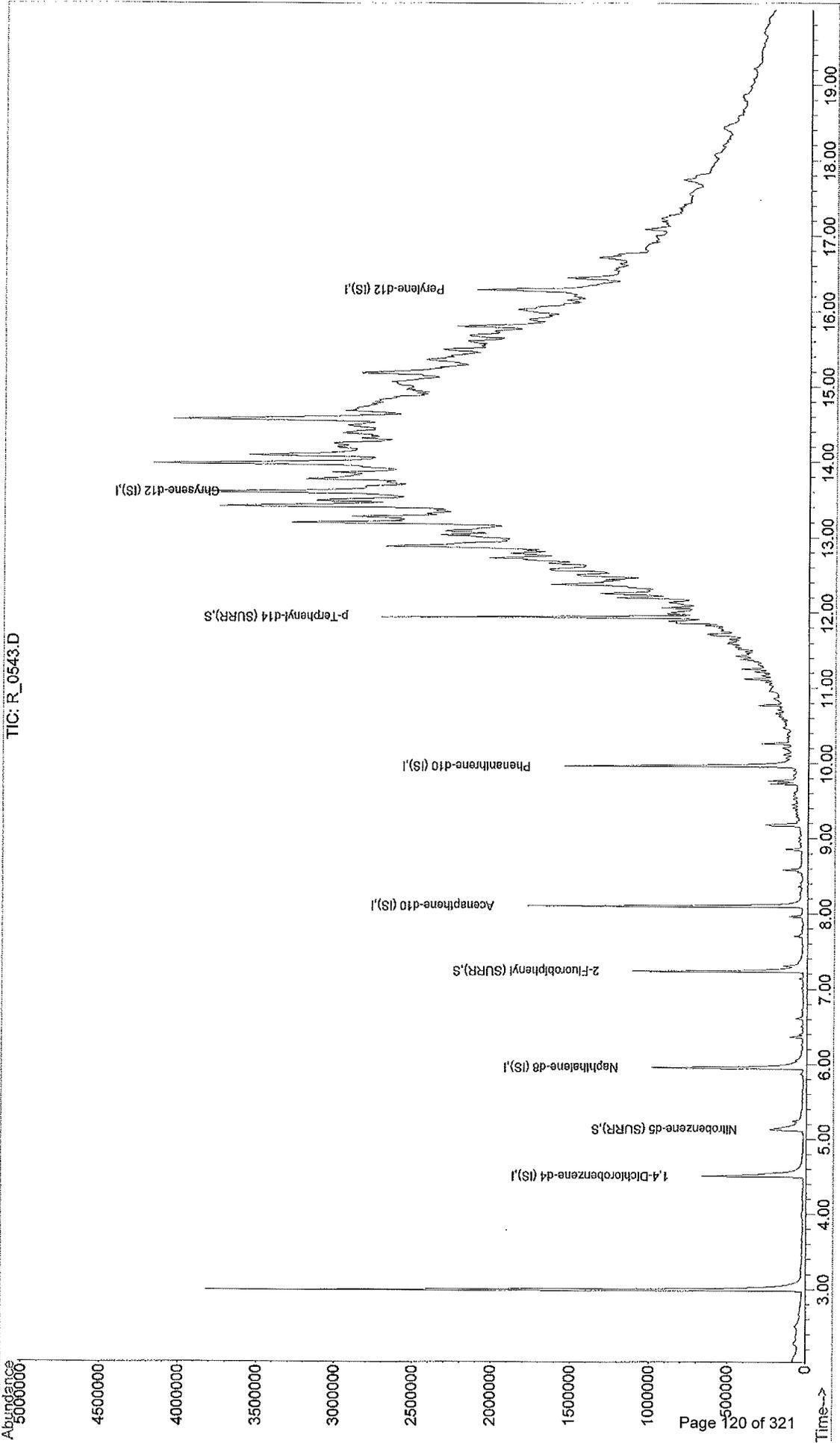
Data File : C:\HPCHEM\1\DATA\013115\R_0543.D
Acq On : 1 Feb 2015 7:08 pm
Sample : 15-1341 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:20 2015

Vial: 19

Operator: AJG
Inst : 5972R
Multiplr: 1.00

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0544.D Vial: 20
 Acq On : 1 Feb 2015 7:34 pm Operator: AJG
 Sample : 15-1342 D PS3 1-28 Inst : 5972R
 Misc : PB#012815PS3 30G/1.0ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:20 2015 Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	196138	40.00	ug/mL	-0.02
2) Naphthalene-d8 (IS)	5.95	136	799951	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.10	164	468580	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	786268	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.60	240	460388	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.27	264	293194	40.00	ug/mL	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)		5.13	82	221047	27.13	ug/mL	-0.01
Spiked Amount	50.000	Range	11 - 104	Recovery	=	54.26%	
8) 2-Fluorobiphenyl (SURR)		7.24	172	471080	31.29	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	62.58%	
18) p-Terphenyl-d14 (SURR)		11.95	244	535371	54.91	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	109.82%	

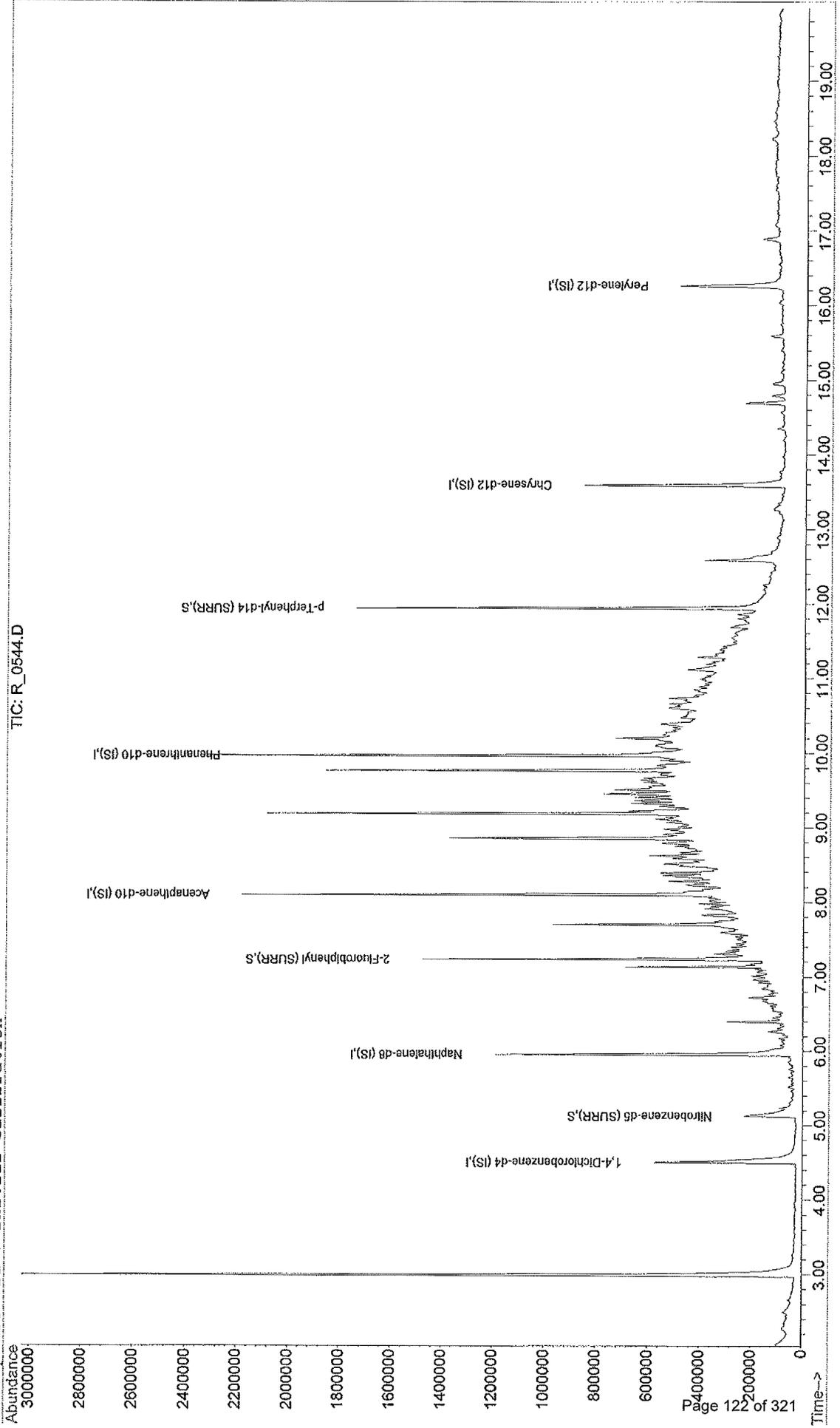
Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0544.D
Acq On : 1 Feb 2015 7:34 pm
Sample : 15-1342 D PS3 1-28
Misc : PB#012815PS3 30G/1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:20 2015

Vial: 20
Operator: AJG
Inst : 5972R
Multiplr: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration





ENVision Laboratories, Inc.
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8260 VOC
Package Review

ENVision Project#: 2015-186

- Sequence Log
- 8260 Soil / Water Limits

Initial Calibration Data

Calibration Curve: 013015 RC VOC 1 ✓
0116 15 RC GCMS #2 ✓

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Raw Sample Data (if applicable – Level IV)

The contents of this Level QA/QC package have been reviewed for completeness and compliance with method requirements.

QA Manager Signature of approval:



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8260 VOC

- Sequence Log
- 8260 Soil / Water Limits

Injection Log

Directory: C:\HPCHEM\1\DATA\013015C

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
30	30	3001030.D	1.	1120	010715 VOC1 curve, 8260 ical	31 Jan 2015 00:06
31	31	3101031.D	1.	BFB/CCV 50ppb	010715 VOC1 curve, 8260 ical	31 Jan 2015 00:25
32	32	3201032.D	1.	LCS 50ppb	010715 VOC1 curve, 8260 ical	31 Jan 2015 00:43
33	33	3301033.D	1.	MB	010715 VOC1 curve, 8260 ical	31 Jan 2015 01:02
34	34	3401034.D	1.	1189	010715 VOC1 curve, 8260 ical	31 Jan 2015 01:20
35	35	3501035.D	1.	1190	010715 VOC1 curve, 8260 ical	31 Jan 2015 01:39
36	36	3601036.D	1.	1191	010715 VOC1 curve, 8260 ical	31 Jan 2015 01:58
37	37	3701037.D	1.	1191ms	010715 VOC1 curve, 8260 ical	31 Jan 2015 02:16
38	38	3801038.D	1.	1191msd	010715 VOC1 curve, 8260 ical	31 Jan 2015 02:35
39	39	3901039.D	1.	1192	010715 VOC1 curve, 8260 ical	31 Jan 2015 02:53
40	40	4001040.D	1.	1193	010715 VOC1 curve, 8260 ical	31 Jan 2015 03:12
41	41	4101041.D	1.	1333 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 03:31
42	42	4201042.D	1.	1333ms ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 03:49
43	43	4301043.D	1.	1333msd ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 04:08
44	44	4401044.D	1.	1334 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 04:26
45	45	4501045.D	1.	1335 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 04:45
46	46	4601046.D	1.	1336 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 05:04
47	47	4701047.D	1.	1336:50 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 05:22
48	48	4801048.D	1.	1337 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 05:41
49	49	4901049.D	1.	1338 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 06:00
50	50	5001050.D	1.	1339 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 06:18
51	51	5101051.D	1.	1340 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 06:37
52	52	5201052.D	1.	1341 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 06:55
53	53	5301053.D	1.	1342 ✓	010715 VOC1 curve, 8260 ical	31 Jan 2015 07:14

Injection Log

Directory: C:\HPCHEM1\DATA\013015C

VOC
 Soils
 "RCG"

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	1ppb 8260 ical	121514 VOC1 curve, 8260 ical	30 Jan 2015 14:53
2	2	0201002.D	1.	5ppb 8260 ical	121514 VOC1 curve, 8260 ical	30 Jan 2015 15:22
3	3	0301003.D	1.	10ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 15:41
4	4	0401004.D	1.	20ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:00
5	5	0501005.D	1.	50ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:19
6	6	0601006.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:37
7	7	0701007.D	1.	100ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:56
8	8	0801008.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:15
9	9	0901009.D	1.	200ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:33
10	10	1001010.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:52
11	11	1101011.D	1.	50ppb 8260 ical verification	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:11
12	12	1201012.D	1.	MB	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:30
13	13	1301013.D	1.	1105	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:48
14	14	1401014.D	1.	1106	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:07
15	15	1501015.D	1.	1107	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:26
16	16	1601016.D	1.	1108	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:44
17	17	1701017.D	1.	1109	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:03
18	18	1801018.D	1.	1110	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:22
19	19	1901019.D	1.	1111	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:40
20	20	2001020.D	1.	1112	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:59
21	21	2101021.D	1.	1113	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:18
22	22	2201022.D	1.	1114	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:37
23	23	2301023.D	1.	1114ms	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:55
24	24	2401024.D	1.	1114msd	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:14
25	25	2501025.D	1.	1115	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:32
26	26	2601026.D	1.	1116	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:51
27	27	2701027.D	1.	1117	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:10
28	28	2801028.D	1.	1118	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:29
29	29	2901029.D	1.	1119	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:47

Injection Log

Directory: C:\HPCHEM\1\DATA\012915

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	bfb/ccv 50ppb	qc	29 Jan 2015 11:30
2	2	0201002.D	1.	lcs 50ppb	qc	29 Jan 2015 11:50
3	3	0301003.D	1.	lcsd 50ppb	qc	29 Jan 2015 12:11
4	4	0401004.D	1.	mb	qc	29 Jan 2015 12:31
5	5	0501005.D	1.	15-852	a	29 Jan 2015 12:52
6	6	0601006.D	1.	15-853	a	29 Jan 2015 13:12
7	7	0701007.D	1.	15-1188:50	a	29 Jan 2015 13:33
8	8	0801008.D	1.	15-1041	a	29 Jan 2015 13:53
9	9	0901009.D	1.	15-1042	a	29 Jan 2015 14:14
10	10	1001010.D	1.	15-1043	a	29 Jan 2015 14:34
11	11	1101011.D	1.	15-1044 tb	a	29 Jan 2015 14:55
12	12	1201012.D	1.	15-1235	a	29 Jan 2015 15:15
13	13	1301013.D	1.	15-1238 dup	a	29 Jan 2015 15:36
14	14	1401014.D	1.	15-1022	a	29 Jan 2015 15:56
15	15	1501015.D	1.	15-1023	a	29 Jan 2015 16:17
16	16	1601016.D	1.	15-1064:10	a	29 Jan 2015 16:37
17	17	1701017.D	1.	15-1024	a	29 Jan 2015 16:57
18	18	1801018.D	1.	15-835 confirmation pce cr	a	29 Jan 2015 17:18
19	19	1901019.D	1.	15-1025	a	29 Jan 2015 17:38
20	20	2001020.D	1.	15-1026 dup	a	29 Jan 2015 17:59
21	21	2101021.D	1.	15-1027 tb	a	29 Jan 2015 18:19
22	22	2201022.D	1.	15-1257	a	29 Jan 2015 18:39
23	23	2301023.D	1.	15-1258	a	29 Jan 2015 19:00
24	24	2401024.D	1.	15-1268	a	29 Jan 2015 19:20
25	25	2501025.D	1.	15-1269	a	29 Jan 2015 19:41
26	26	2601026.D	1.	15-1270:50	a	29 Jan 2015 20:01
27	27	2701027.D	1.	15-1271	a	29 Jan 2015 20:22
28	28	2801028.D	1.	15-1272 tb	a	29 Jan 2015 20:42
29	29	2901029.D	1.	15-1273 tb	a	29 Jan 2015 21:02
30	30	3001030.D	1.	15-1274	a	29 Jan 2015 21:23
31	31	3101031.D	1.	15-1275	a	29 Jan 2015 21:44
32	32	3201032.D	1.	15-1276	a	29 Jan 2015 22:04
33	33	3301033.D	1.	15-1277	a	29 Jan 2015 22:24
34	34	3401034.D	1.	15-1278	a	29 Jan 2015 22:45
35	35	3501035.D	1.	15-1279	a	29 Jan 2015 23:05
36	36	3601036.D	1.	bfb/ccv 50ppb	qc	29 Jan 2015 23:25
37	37	3701037.D	1.	lcs 50ppb	qc	29 Jan 2015 23:46
38	38	3801038.D	1.	lcsd 50ppb	qc	30 Jan 2015 00:06
39	39	3901039.D	1.	mb	qc	30 Jan 2015 00:27
40	40	4001040.D	1.	15-1280	a	30 Jan 2015 00:47
41	41	4101041.D	1.	15-1281	a	30 Jan 2015 01:08
42	42	4201042.D	1.	15-1282	a	30 Jan 2015 01:28
43	43	4301043.D	1.	15-1283	a	30 Jan 2015 01:48
44	44	4401044.D	1.	15-1283ms	b	30 Jan 2015 02:09
45	45	4501045.D	1.	15-1283msd	c	30 Jan 2015 02:29
46	46	4601046.D	1.	15-1284	a	30 Jan 2015 02:50
47	47	4701047.D	1.	15-1285	a	30 Jan 2015 03:10
48	48	4801048.D	1.	15-1286	a	30 Jan 2015 03:30
49	49	4901049.D	1.	15-1287	a	30 Jan 2015 03:51
50	50	5001050.D	1.	15-1288	a	30 Jan 2015 04:11
51	51	5101051.D	1.	15-1289	a	30 Jan 2015 04:31
52	52	5201052.D	1.	15-1290	a	30 Jan 2015 04:52
53	53	5301053.D	1.	15-1343 tb ✓	a	30 Jan 2015 05:12
54	54	5401054.D	1.	15-1359	a	30 Jan 2015 05:32
55	55	5501055.D	1.	15-1360	a	30 Jan 2015 05:53

Injection Log

Directory: C:\HPCHEM\1\DATA\012915

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
56	56	5601056.D	1.	15-1361	a	30 Jan 2015 06:13
57	57	5701057.D	1.	15-1362	a	30 Jan 2015 06:34
58	58	5801058.D	1.	15-1183 confirmation !!!!!thisonederek!	a	30 Jan 2015 06:54
59	59	5901059.D	1.	15-1363:20	a	30 Jan 2015 07:15
60	60	6001060.D	1.	15-1364:50	a	30 Jan 2015 07:35
61	61	6101061.D	1.	15-1365	a	30 Jan 2015 07:55
62	62	6201062.D	1.	15-1366	a	30 Jan 2015 08:15
63	63	6301063.D	1.	15-1367	a	30 Jan 2015 08:36
64	64	6401064.D	1.	15-1368	a	30 Jan 2015 08:56
65	65	6501065.D	1.	15-1369	a	30 Jan 2015 09:17
66	66	6601066.D	1.	15-1370:50	a	30 Jan 2015 09:37
67	67	6701067.D	1.	15-1371	a	30 Jan 2015 09:57
68	68	6801068.D	1.	15-1372:50	a	30 Jan 2015 10:17
69	69	6901069.D	1.	15-1373	a	30 Jan 2015 10:38
70	70	7001070.D	1.	15-1374:10	a	30 Jan 2015 10:58
71	71	7101071.D	1.	15-1375	a	30 Jan 2015 11:18
72	72	7201072.D	1.	15-1374	a	30 Jan 2015 11:38
73	73	7301073.D	1.	bfb/ccv 50ppb	qc	30 Jan 2015 11:59
74	74	7401074.D	1.	lcs 50ppb	qc	30 Jan 2015 12:19
75	75	7501075.D	1.	lcsd 50ppb	qc	30 Jan 2015 12:39
76	76	7601076.D	1.	mb	qc	30 Jan 2015 13:00
77	77	7701077.D	1.	15-1401	a	30 Jan 2015 13:20
78	78	7801078.D	1.	15-1402	a	30 Jan 2015 13:40
79	79	7901079.D	1.	15-1402:10	a	30 Jan 2015 14:00
80	80	8001080.D	1.	15-1403	a	30 Jan 2015 14:21
81		8101081.D	1.			

8260 Volatiles Statistical Control Limits - Effective 01-15-14

Surrogate	Water Limits % Rec	Soil Limits % Rec.
Dibromofluoromethane (surrogate)	76-128	75-126
1,2-Dichloroethane-d4 (surrogate)	65-129	73-131
Toluene-d8 (surrogate)	66-123	69-123
4-bromofluorobenzene (surrogate)	77-127	74-124

LCS	Water Limits % Rec	Soil Limits % Rec.
Vinyl Chloride	71-121	76-130
1,1-Dichloroethene	79-126	80-136
trans-1,2-Dichloroethene	79-124	80-129
Methyl-tert-butyl-ether	67-127	79-126
1,1-Dichloroethane	80-125	79-125
cis-1,2-Dichloroethene	79-125	80-126
Chloroform	79-120	77-120
1,1,1-Trichloroethane	79-125	80-126
Benzene	78-124	79-127
Trichloroethene	80-125	78-125
Toluene	79-127	79-131
1,1,1,2-Tetrachloroethane	79-125	79-121
Chlorobenzene	78-129	79-130
Ethylbenzene	79-130	78-131
o-Xylene	78-129	79-122
N-propylbenzene	77-130	75-130

MS/MSD	Water Limits % Rec	Soil Limits % Rec.
Vinyl Chloride	67-123	75-120
1,1-Dichloroethene	71-134	72-120
trans-1,2-Dichloroethene	74-128	72-122
Methyl-tert-butyl-ether	61-135	68-121
1,1-Dichloroethane	71-136	72-117
cis-1,2-Dichloroethene	66-140	67-124
Chloroform	72-124	61-123
1,1,1-Trichloroethane	65-135	74-126
Benzene	71-123	70-122
Trichloroethene	55-147	66-130
Toluene	71-126	58-149
1,1,1,2-Tetrachloroethane	81-117	74-121
Chlorobenzene	78-119	72-121
Ethylbenzene	73-122	66-122
o-Xylene	76-119	74-121
N-propylbenzene	60-127	69-120

LCS	Water Limits % Rec	Soil Limits % Rec.
Methyl-tert-butyl-ether	70-134	79-121
Benzene	80-130	79-128
Toluene	80-128	76-128
Ethylbenzene	79-132	79-125
Xylene, M&P	77-133	75-129
Xylene, Ortho	75-134	78-121
Naphthalene	75-131	79-120

MS/MSD	Water Limits % Rec	Soil Limits % Rec.
Methyl-tert-butyl-ether	75-124	77-128
Benzene	74-125	72-127
Toluene	80-127	61-125
Ethylbenzene	73-141	73-140
Xylene, M&P	76-138	71-145
Xylene, Ortho	77-132	73-128
Naphthalene	70-130	60-120



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8260 VOC Initial Calibration Data

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

Injection Log

Directory: C:\HPCHEM\1\DATA\013015C

013015C - VOC1 8260 Curve

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	1ppb 8260 ical	121514 VOC1 curve, 8260 ical	30 Jan 2015 14:53
2	2	0201002.D	1.	5ppb 8260 ical	121514 VOC1 curve, 8260 ical	30 Jan 2015 15:22
3	3	0301003.D	1.	10ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 15:41
4	4	0401004.D	1.	20ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:00
5	5	0501005.D	1.	50ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:19
6	6	0601006.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:37
7	7	0701007.D	1.	100ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:56
8	8	0801008.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:15
9	9	0901009.D	1.	200ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:33
10	10	1001010.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:52
11	11	1101011.D	1.	50ppb 8260 ical verification	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:11
12	12	1201012.D	1.	MB	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:30
13	13	1301013.D	1.	1105	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:48
14	14	1401014.D	1.	1106	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:07
15	15	1501015.D	1.	1107	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:26
16	16	1601016.D	1.	1108	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:44
17	17	1701017.D	1.	1109	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:03
18	18	1801018.D	1.	1110	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:22
19	19	1901019.D	1.	1111	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:40
20	20	2001020.D	1.	1112	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:59
21	21	2101021.D	1.	1113	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:18
22	22	2201022.D	1.	1114	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:37
23	23	2301023.D	1.	1114ms	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:55
24	24	2401024.D	1.	1114msd	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:14
25	25	2501025.D	1.	1115	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:32
26	26	2601026.D	1.	1116	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:51
27	27	2701027.D	1.	1117	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:10
28	28	2801028.D	1.	1118	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:29
29	29	2901029.D	1.	1119	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:47

BFB

Data File : C:\HPCHEM\1\DATA\013015C\0101001.D

Acq On : 30 Jan 2015 2:53 pm

Sample : 1ppb 8260 ical

Misc : 121514 VOC1 curve, 8260 ical

MS Integration Params: rteint.p

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)

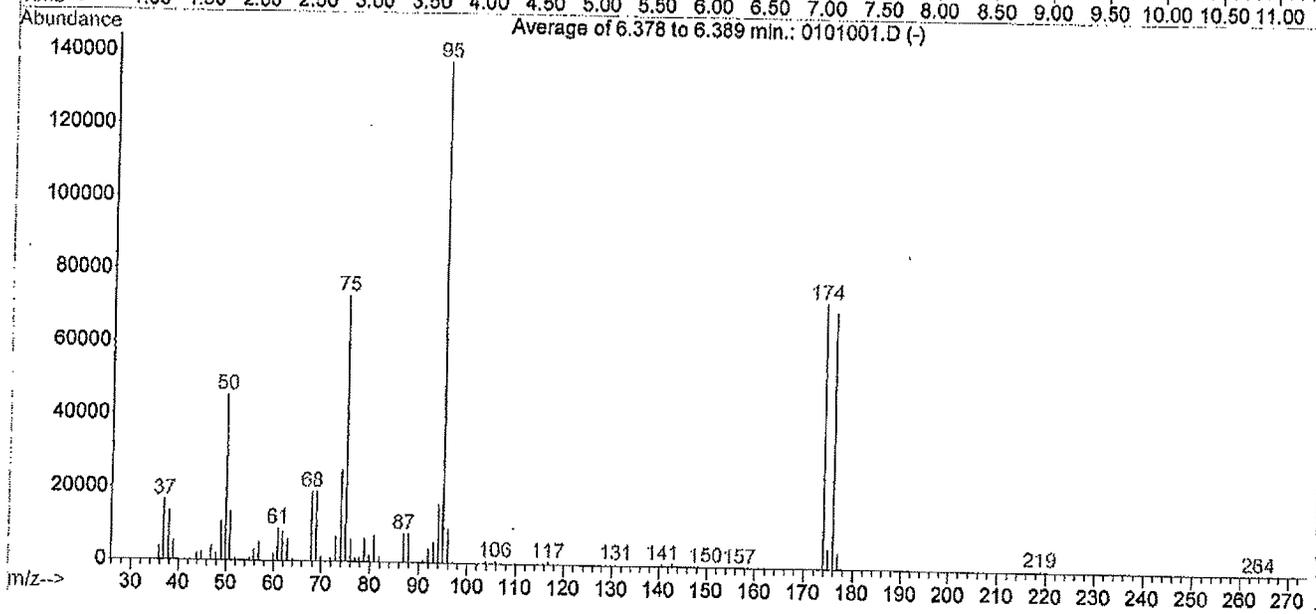
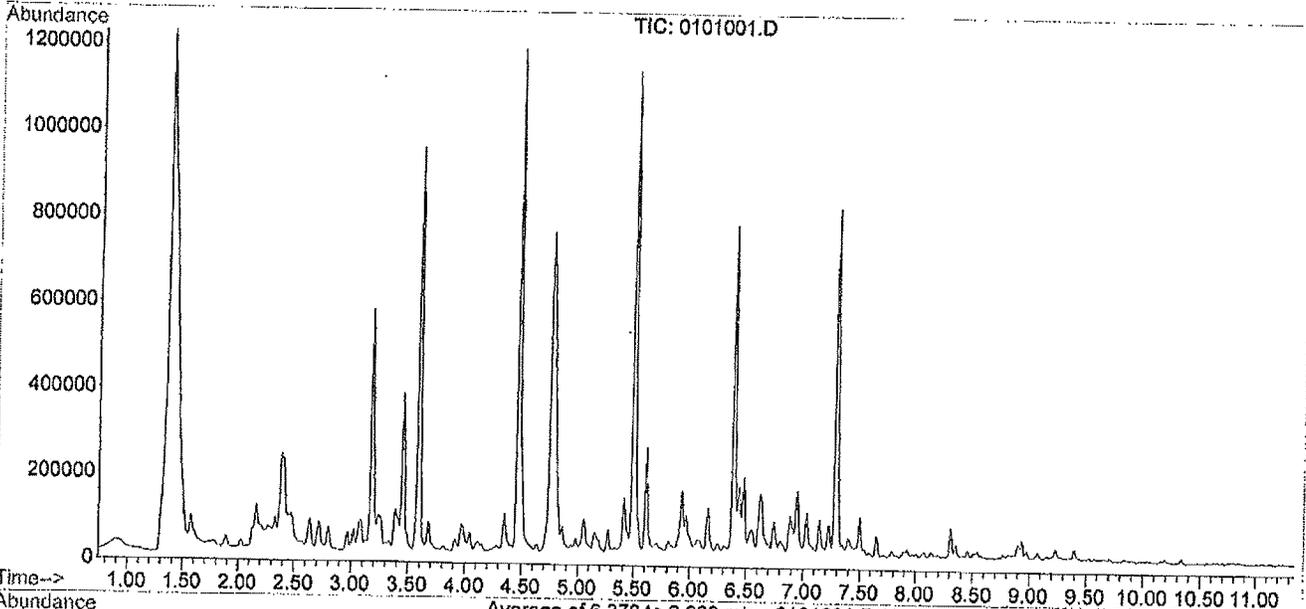
Title : 8260 Volatile Soil Calibration

Vial: 1

Operator: gjd

Inst : VOC 1

Multiplr: 1.00



Spectrum Information: Average of 6.378 to 6.389 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.9	45307	PASS
75	95	30	60	53.0	72963	PASS
95	95	100	100	100.0	137646	PASS
96	95	5	9	6.7	9270	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	52.9	72872	PASS
175	174	5	9	7.6	5514	PASS
176	174	95	100	96.5	70317	PASS
177	176	5	9	6.4	4472	PASS

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration

Calibration Files
 20 =0401004.D 50 =0501005.D 100 =0701007.D
 200 =0901009.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
1) Fluorobenzene (IS)	-----ISTD-----							
2) Dichlorodifluoromet	1.044	0.975	1.085	1.100	0.787	0.751	0.957	15.92
3) Chloromethane	1.103	1.022	1.121	1.119	0.822	0.791	0.997	15.23
4) m Vinyl Chloride*	0.897	0.835	0.909	0.937	0.661	0.630	0.812	16.42
5) Bromomethane	0.424	0.328	0.291	0.205	0.382	0.371	0.333	23.34
6) Chloroethane	0.343	0.286	0.268	0.186	0.288	0.273	0.274	18.57
7) Acrolein	0.740	0.661	0.667	0.613	0.580	0.547	0.635	10.91
8) Trichlorofluorometh	1.102	0.904	0.800	0.568	0.842	0.840	0.843	20.42
9) Acetone	0.235	0.164	0.178	0.167	0.284	0.162	0.198	25.37
10) m 1,1-Dichloroethene*	1.324	1.176	1.215	1.065	0.982	0.931	1.116	13.41
11) Acrylonitrile	2.485	1.797	1.905	1.533	1.530	1.704	1.826	19.44
12) Iodomethane	0.657	0.666	0.747	0.732	0.457	0.464	0.621	20.75
13) Methylene Chloride	0.761	0.614	0.623	0.596	1.066	0.724	0.731	24.26
14) Carbon Disulfide	1.875	1.678	1.753	1.539	1.444	1.316	1.601	12.92
15) m trans-1,2-Dichloroe	0.602	0.543	0.563	0.515	0.471	0.443	0.523	11.26
16) m Methyl-tert-butyl e	1.637	1.413	1.477	1.378	1.355	1.196	1.409	10.33
17) m 1,1-Dichloroethane*	2.351	1.961	2.045	1.678	1.790	1.716	1.923	13.16
18) Vinyl Acetate	0.748	0.658	0.711	0.609	0.660	0.528	0.652	11.89
19) N-Hexane	1.519	1.320	1.302	1.186	1.179	1.086	1.265	11.98
20) N-Butanol	0.960	0.852	0.899	0.762	0.779	0.761	0.836	9.88
21) 2-Butanone (MEK)	0.528	0.441	0.469	0.382	0.453	0.340	0.435	15.25
22) m cis-1,2-Dichloroeth	1.800	1.592	1.622	1.492	1.345	1.362	1.536	11.25
23) Bromochloromethane	0.420	0.375	0.402	0.350	0.297	0.290	0.356	15.11
24) m Chloroform*	2.035	1.772	1.771	1.507	1.568	1.568	1.703	11.58
25) 2-2-Dichloropropane	1.694	1.524	1.596	1.430	1.250	1.191	1.448	13.60
26) s Dibromofluoromethan	0.308	0.288	0.294	0.256	0.299	0.292	0.290	6.12
27) s 1,2-Dichloroethane-	0.374	0.380	0.345	0.361	0.344	0.303	0.351	7.92
28) 1,2-Dichloroethane	1.446	1.298	1.361	1.225	1.145	1.043	1.253	11.70
29) m 1,1,1-Trichloroetha	1.526	1.370	1.403	1.187	1.154	1.132	1.296	12.39
30) 1,1-Dichloropropene	1.506	1.374	1.386	1.121	1.139	1.090	1.269	13.73
31) Carbon Tetrachlorid	1.396	1.280	1.344	1.162	0.984	0.973	1.190	15.24
32) m Benzene*	4.179	3.665	3.624	2.909	3.289	3.158	3.471	12.94
33) Dibromomethane	0.724	0.639	0.683	0.606	0.542	0.475	0.612	14.96
34) 1,2-Dichloropropane	1.302	1.168	1.177	0.943	1.033	0.991	1.102	12.33
35) m Trichloroethene*	1.123	0.988	1.005	0.867	0.882	0.828	0.949	11.62
36) Bromodichloromethan	1.585	1.416	1.426	1.218	1.232	1.129	1.335	12.72
37) 2-Chloroethyl-vinyl	0.023	0.015	0.013	0.014	0.014	0.022	0.017	27.12
38) cis-1,3-Dichloropro	1.853	1.668	1.782	1.560	1.391	1.320	1.596	13.29
39) 4-Methyl-2-Pentanon	1.385	1.153	1.247	1.035	1.108	0.873	1.134	15.49
40) trans-1,3-Dichlorop	1.568	1.335	1.340	1.042	1.196	1.101	1.264	15.18
41) 1,1,2-Trichloroetha	0.812	0.718	0.732	0.621	0.626	0.572	0.680	13.08
42) s Toluene-d8 (SURR)	0.894	0.986	0.873	1.062	0.728	0.710	0.875	15.85
43) m Toluene*	4.385	3.772	3.864	3.332	3.399	3.281	3.672	11.54
44) Ethyl Methacrylate	1.051	0.940	1.002	0.858	0.812	0.680	0.890	15.22
45) 1,3-Dichloropropane	1.563	1.356	1.452	1.229	1.170	1.031	1.300	14.97
46) 2-Hexanone	1.008	0.858	0.981	0.861	0.786	0.626	0.853	16.29
47) Chlorobenzene-d5 (IS)	-----ISTD-----							
48) Dibromochloromethan	1.303	1.226	1.326	1.221	0.952	0.917	1.158	15.39
49) 1,2-Dibromoethane (	1.230	1.094	1.226	1.113	0.934	0.838	1.073	14.72
50) Tetrachloroethene	1.267	1.163	1.218	1.049	1.012	0.961	1.111	10.98
51) m 1,1,1,2-Tetrachloro	1.103	1.007	1.016	0.916	0.820	0.848	0.952	11.46
52) m Chlorobenzene*	3.608	3.258	3.089	2.488	2.739	2.820	3.000	13.39
53) m Ethyl Benzene*	7.445	6.227	5.779	4.556	5.788	5.835	5.938	15.65
54) m,p-Xylene	5.448	4.700	4.282	3.119	4.333	4.485	4.394	17.20
55) Bromoform	0.668	0.625	0.701	0.637	0.469	0.431	0.589	18.86
56) Styrene	3.928	3.536	3.698	2.966	2.807	3.004	3.323	13.78
57) 1,1,2,2-Tetrachloro	1.137	0.997	1.040	0.885	0.877	0.771	0.951	13.86
58) m o-Xylene*	2.306	2.121	2.159	1.874	1.708	1.801	1.995	11.74
59) trans-1,4-Dichloro-	0.541	0.464	0.504	0.421	0.395	0.366	0.449	14.93

(#) = Out of Range

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration

Calibration Files
 20 =0401004.D 50 =0501005.D 100 =0701007.D
 200 =0901009.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
60) 1,2,3-Trichloroprop	1.731	1.649	1.715	1.337	1.466	1.294	1.532	12.59
61) Isopropylbenzene	6.219	5.618	5.412	4.574	4.415	4.563	5.134	14.17
62) s 4-Bromofluorobenzen	0.545	0.596	0.561	0.579	0.404	0.464	0.525	14.29
63) Bromobenzene	1.193	1.144	1.189	0.947	0.843	0.871	1.031	15.75
64) m N-Propylbenzene*	9.007	7.797	7.264	5.224	6.599	6.880	7.129	17.70
65) 2-Chlorotoluene	5.608	4.040	4.668	3.468	4.018	4.286	4.348	16.81
66) 4-Chlorotoluene	1.209	1.105	1.138	0.968	0.862	0.906	1.031	13.48
67) 1,4-Dichlorobenzene (	-----ISTD-----							
68) 1,3,5-Trimethylbenz	1.233	1.115	1.045	0.858	0.951	0.983	1.031	E1 12.80
69) tert-butylbenzene	1.141	1.071	1.062	0.916	0.872	0.891	0.992	E1 11.36
70) 1,2,4-Trimethylbenz	1.144	1.084	1.025	0.874	0.915	0.938	0.997	E1 10.54
71) sec-Butylbenzene	1.709	1.621	1.447	1.232	1.325	1.325	1.443	E1 12.95
72) 1,3-Dichlorobenzene	5.202	4.993	4.947	4.468	4.034	4.057	4.617	10.91
73) 1,4-Dichlorobenzene	3.342	3.151	3.165	2.898	2.593	2.612	2.960	10.51
74) p-Isopropyltoluene	1.149	1.076	1.043	0.906	0.861	0.885	0.987	E1 12.02
75) 1,2-Dichlorobenzene	4.674	4.703	4.941	4.776	3.578	3.546	4.370	14.48
76) N-Butylbenzene	1.524	1.472	1.388	1.190	1.093	1.129	1.299	E1 14.26
77) 1,2-Dibromo-3-chlor	0.280	0.292	0.343	0.403	0.200	0.166	0.281	31.30
78) 1,2,4-Trichlorobenz	1.861	2.331	2.916	3.271	1.075	1.196	2.108	42.51
79) Naphthalene	3.034	3.542	4.465	5.407	1.666	1.768	3.314	44.64
80) Hexachloro-1,3-buta	1.326	1.635	2.130	2.572	0.898	0.895	1.576	42.92
81) 1,2,3-Trichlorobenz	1.453	1.864	2.429	2.990	0.850	0.913	1.750	48.56
82) 1-Methylnaphthalene	0.681	0.757	0.851	0.870	0.665	0.645	0.745	13.06
83) 2-Methylnaphthalene	1.007	0.930	0.995	0.976	0.938	1.004	0.975	3.44

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0201002.D
 Acq On : 30 Jan 2015 3:22 pm
 Sample : 5ppb 8260 ical
 Misc : 121514 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 2
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:08 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	559957	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.43	117	378581	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.22	152	132545	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.13	113	167405	51.62	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	103.24%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	192758	49.01	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.02%
42) Toluene-d8 (SURR)	4.41	98	547817	48.72	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	97.44%
62) 4-Bromofluorobenzene (SURR)	6.33	95	222862	22.31	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	44.62%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	44060	4.11	ppb	99
3) Chloromethane	1.54	50	46018	4.12	ppb	# 98
4) Vinyl Chloride*	1.57	62	37021	4.07	ppb	95
5) Bromomethane	1.73	94	21371	5.08	ppb	# 94
6) Chloroethane	1.79	64	16150	5.26	ppb	95
7) Acrolein	2.43	56	32482	4.57	ppb	96
8) Trichlorofluoromethane	1.86	101	47171	5.00	ppb	98
9) Acetone	2.36	43	39801	17.92	ppb	# 92
10) 1,1-Dichloroethene*	2.09	61	54972	4.40	ppb	97
11) Acrylonitrile	2.66	53	85676	4.19	ppb	99
12) Iodomethane	2.16	142	25613	3.69	ppb	100
13) Methylene Chloride	2.34	84	59701	7.30	ppb	# 69
14) Carbon Disulfide	2.11	76	80854	4.51	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	26397	4.51	ppb	98
16) Methyl-tert-butyl ether* (	2.44	73	75851	4.81	ppb	95
17) 1,1-Dichloroethane*	2.68	63	100214	4.65	ppb	99
18) Vinyl Acetate	2.77	43	36936	5.06	ppb	# 100
19) N-Hexane	2.43	57	66005	4.66	ppb	98
20) N-Butanol	2.75	57	43608	4.66	ppb	# 100
21) 2-Butanone (MEK)	3.19	43	63469	13.02	ppb	98
22) cis-1,2-Dichloroethene*	2.92	61	75320	4.38	ppb	97
23) Bromochloromethane	3.02	128	16613	4.17	ppb	86
24) Chloroform*	3.04	83	87778	4.60	ppb	100
25) 2,2-Dichloropropane	2.98	77	69998	4.32	ppb	98
28) 1,2-Dichloroethane	3.44	62	64109	4.57	ppb	100
29) 1,1,1-Trichloroethane*	3.15	97	64641	4.46	ppb	99
30) 1,1-Dichloropropene	3.21	75	63769	4.49	ppb	98
31) Carbon Tetrachloride	3.12	117	55095	4.13	ppb	100
32) Benzene*	3.34	78	184176	4.74	ppb	99
33) Dibromomethane	3.86	93	30372	4.43	ppb	97
34) 1,2-Dichloropropane	3.91	63	57817	4.68	ppb	99
35) Trichloroethene*	3.63	95	49379	4.65	ppb	96
36) Bromodichloromethane	3.93	83	68997	4.62	ppb	99
37) 2-Chloroethyl-vinyl ether	4.24	63	3054	16.42	ppb	# 84
38) cis-1,3-Dichloropropene	4.30	75	77889	4.36	ppb	93
39) 4-Methyl-2-Pentanone (MIBK)	4.66	43	155116	12.22	ppb	# 96
40) trans-1,3-Dichloropropene	4.69	75	66978	4.73	ppb	# 70
41) 1,1,2-Trichloroethane	4.80	83	35067	4.60	ppb	99
43) Toluene*	4.44	91	190341	4.63	ppb	99
44) Ethyl Methacrylate	4.77	69	45477	4.56	ppb	# 95
45) 1,3-Dichloropropane	4.99	76	65520	4.50	ppb	99
46) 2-Hexanone	5.21	43	109996	11.51	ppb	100
48) Dibromochloromethane	4.92	129	36023	2.06	ppb	98
49) 1,2-Dibromoethane (EDB)	5.09	107	35350	2.19	ppb	98

(#) = qualifier out of range (m) = manual integration
 0201002.D 013015RC.M Thu Feb 05 23:32:36 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0201002.D
 Acq On : 30 Jan 2015 3:22 pm
 Sample : 5ppb 8260 ical
 Misc : 121514 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 2
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:08 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	38294	2.20	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.48	131	31054	2.06	ppb	97
52) Chlorobenzene*	5.44	112	103689	2.13	ppb	91
53) Ethyl Benzene*	5.45	91	219120	2.22	ppb	93
54) m,p-Xylene	5.55	91	328086	4.42	ppb	96
55) Bromoform	5.94	173	17765	2.05	ppb	# 99
56) Styrene	5.91	104	106250	2.00	ppb	96
57) 1,1,2,2-Tetrachloroethane	6.47	85	33193	2.27	ppb	99
58) o-Xylene*	5.87	106	64679	2.04	ppb	95
59) trans-1,4-Dichloro-2-buten	6.61	53	14954	2.16	ppb	96
60) 1,2,3-Trichloropropane	6.58	75	55489m	20.46	ppb	
61) Isopropylbenzene	6.10	105	167154	2.04	ppb	98
63) Bromobenzene	6.41	156	31924	1.99	ppb	74
64) N-Propylbenzene*	6.42	91	249839	2.12	ppb	98
65) 2-Chlorotoluene	6.55	91	152100	2.09	ppb	98
66) 4-Chlorotoluene	6.68	126	32633	2.00	ppb	91
68) 1,3,5-Trimethylbenzene	6.57	105	125996	4.61	ppb	97
69) tert-butylbenzene	6.83	119	115616	4.40	ppb	95
70) 1,2,4-Trimethylbenzene	6.89	105	121318	4.59	ppb	98
71) sec-Butylbenzene	6.97	105	175666	4.59	ppb	99
72) 1,3-Dichlorobenzene	7.23	146	53471	4.37	ppb	96
73) 1,4-Dichlorobenzene	7.24	148	34365	4.38	ppb	96
74) p-Isopropyltoluene	7.08	119	114063	4.36	ppb	96
75) 1,2-Dichlorobenzene	7.59	146	47425	4.09	ppb	98
76) N-Butylbenzene	7.43	91	144926	4.21	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.27	155	2651	3.56	ppb	87
78) 1,2,4-Trichlorobenzene	8.87	180	14252	2.55	ppb	99
79) Naphthalene	9.17	128	22084	2.51	ppb	98
80) Hexachloro-1,3-butadiene	8.84	225	11907	2.85	ppb	99
81) 1,2,3-Trichlorobenzene	9.33	180	11271	2.43	ppb	98
83) 2-Methylnaphthalene	10.12	142	2427m	1.29	ppb	

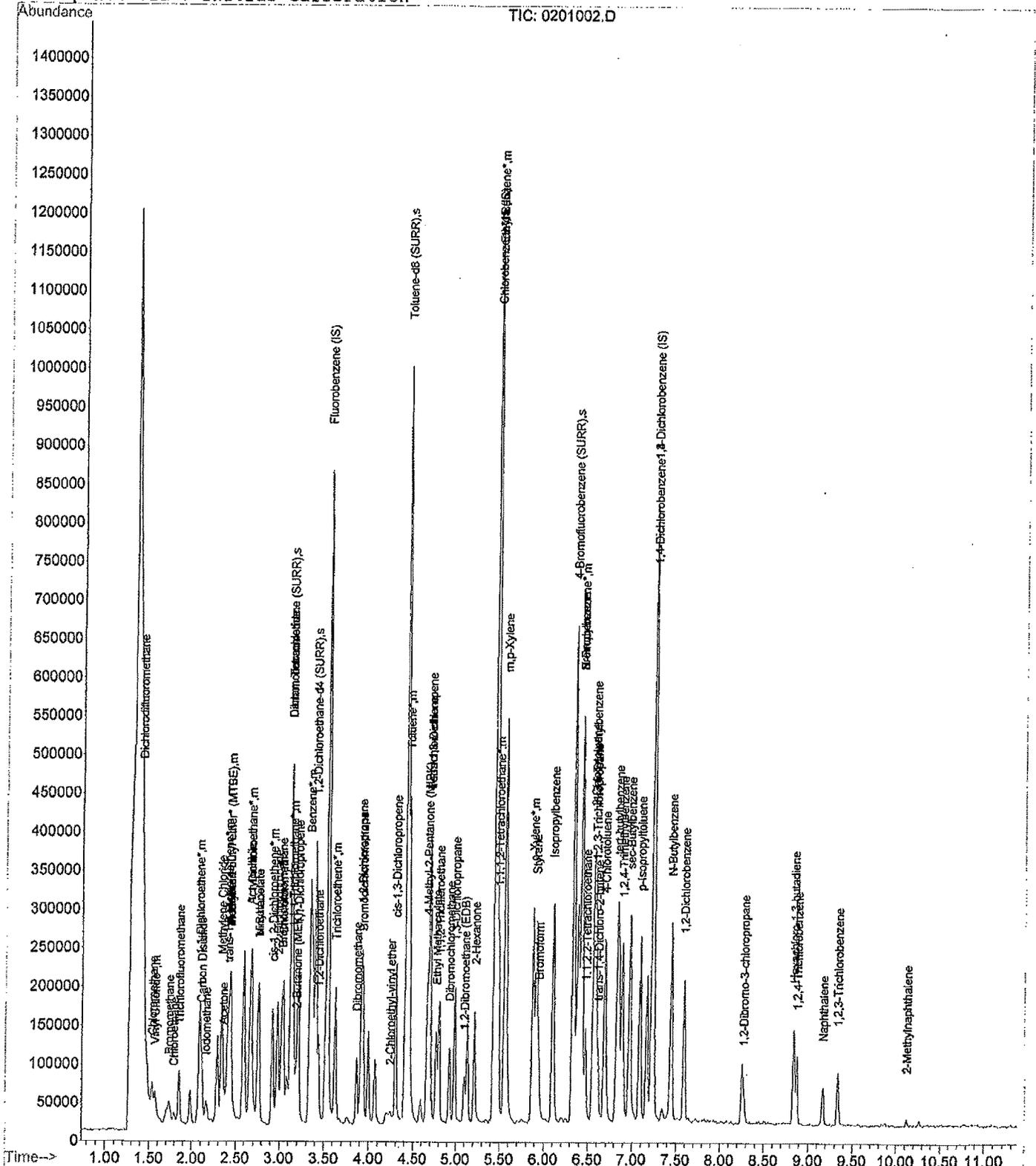
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\0201002.D
Acq On : 30 Jan 2015 3:22 pm
Sample : 5ppb 8260 ical
Misc : 121514 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 3 19:35 2015

Vial: 2
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEC\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Tue Feb 03 19:53:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0301003.D
 Acq On : 30 Jan 2015 3:41 pm
 Sample : 10ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 3
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:26 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.53	96	542866	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.43	117	349389	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.22	152	126298	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.13	113	158506	50.42	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	100.84%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	164447	43.13	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	86.26%
42) Toluene-d8 (SURR)	4.41	98	535219	49.10	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	98.20%
62) 4-Bromofluorobenzene (SURR)	6.32	95	212182	23.01	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	46.02%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	81510	7.85	ppb	100
3) Chloromethane	1.54	50	85926	7.94	ppb	# 96
4) Vinyl Chloride*	1.57	62	68384	7.76	ppb	98
5) Bromomethane	1.74	94	40241	9.98	ppb	# 97
6) Chloroethane	1.79	64	29591	9.95	ppb	97
7) Acrolein	2.43	56	59386	8.62	ppb	98
8) Trichlorofluoromethane	1.86	101	91179	9.96	ppb	98
9) Acetone	2.36	43	44003	20.44	ppb	97
10) 1,1-Dichloroethene*	2.08	61	101035	8.34	ppb	97
11) Acrylonitrile	2.66	53	184979	9.33	ppb	92
12) Iodomethane	2.16	142	50398	7.48	ppb	98
13) Methylene Chloride	2.34	84	78632	9.91	ppb	94
14) Carbon Disulfide	2.11	76	142865	8.22	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	48066	8.47	ppb	98
16) Methyl-tert-butyl ether* (	2.44	73	129832	8.49	ppb	98
17) 1,1-Dichloroethane*	2.68	63	186306	8.92	ppb	100
18) Vinyl Acetate	2.76	43	57274	8.09	ppb	# 100
19) N-Hexane	2.43	57	117890	8.58	ppb	100
20) N-Butanol	2.75	57	82666	9.11	ppb	# 98
21) 2-Butanone (MEK)	3.19	43	92199	19.50	ppb	99
22) cis-1,2-Dichloroethene*	2.92	61	147839	8.87	ppb	97
23) Bromochloromethane	3.02	128	31509	8.16	ppb	87
24) Chloroform*	3.04	83	170234	9.20	ppb	100
25) 2-2-Dichloropropane	2.98	77	129352	8.23	ppb	99
28) 1,2-Dichloroethane	3.43	62	113228	8.32	ppb	99
29) 1,1,1-Trichloroethane*	3.15	97	122870	8.74	ppb	99
30) 1,1-Dichloropropene	3.21	75	118307	8.58	ppb	99
31) Carbon Tetrachloride	3.12	117	105686	8.18	ppb	99
32) Benzene*	3.34	78	342821	9.10	ppb	99
33) Dibromomethane	3.86	93	51598	7.77	ppb	97
34) 1,2-Dichloropropane	3.91	63	107571	8.99	ppb	98
35) Trichloroethene*	3.63	95	89929	8.73	ppb	97
36) Bromodichloromethane	3.93	83	122590	8.46	ppb	98
37) 2-Chloroethyl-vinyl ether	4.23	63	9521	52.80	ppb	93
38) cis-1,3-Dichloropropene	4.29	75	143320	8.27	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.66	43	237094	19.26	ppb	100
40) trans-1,3-Dichloropropene	4.69	75	119489	8.71	ppb	# 73
41) 1,1,2-Trichloroethane	4.80	83	62097	8.41	ppb	99
43) Toluene*	4.44	91	356230	8.93	ppb	100
44) Ethyl Methacrylate	4.77	69	73849	7.64	ppb	99
45) 1,3-Dichloropropane	4.98	76	111964	7.93	ppb	99
46) 2-Hexanone	5.21	43	169835	18.34	ppb	99
48) Dibromochloromethane	4.92	129	64079	3.97	ppb	98
49) 1,2-Dibromoethane (EDB)	5.09	107	58587	3.93	ppb	100

(#) = qualifier out of range (m) = manual integration
 0301003.D 013015RC.M Thu Feb 05 23:32:42 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0301003.D
 Acq On : 30 Jan 2015 3:41 pm
 Sample : 10ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 3
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:26 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	67185	4.19	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.48	131	59253	4.26	ppb	97
52) Chlorobenzene*	5.44	112	197081	4.38	ppb	94
53) Ethyl Benzene*	5.45	91	407735	4.47	ppb	95
54) m,p-Xylene	5.55	91	626833	9.16	ppb	97
55) Bromoform	5.93	173	30136	3.77	ppb	# 99
56) Styrene	5.91	104	209910	4.29	ppb	98
57) 1,1,2,2-Tetrachloroethane	6.47	85	53857	4.00	ppb	99
58) o-Xylene*	5.87	106	125831	4.29	ppb	95
59) trans-1,4-Dichloro-2-buten	6.61	53	25544	4.01	ppb	92
60) 1,2,3-Trichloropropane	6.58	75	90394m	36.12	ppb	
61) Isopropylbenzene	6.10	105	318825	4.23	ppb	97
63) Bromobenzene	6.41	156	60873	4.12	ppb	77
64) N-Propylbenzene*	6.41	91	480766	4.42	ppb	98
65) 2-Chlorotoluene	6.55	91	299496	4.46	ppb	97
66) 4-Chlorotoluene	6.68	126	63334	4.22	ppb	90
68) 1,3,5-Trimethylbenzene	6.57	105	248290	9.54	ppb	98
69) tert-butylbenzene	6.82	119	225021	8.98	ppb	95
70) 1,2,4-Trimethylbenzene	6.88	105	236963	9.41	ppb	98
71) sec-Butylbenzene	6.97	105	334665	9.18	ppb	100
72) 1,3-Dichlorobenzene	7.23	146	102473	8.79	ppb	97
73) 1,4-Dichlorobenzene	7.23	148	65981	8.82	ppb	97
74) p-Isopropyltoluene	7.08	119	223620	8.97	ppb	97
75) 1,2-Dichlorobenzene	7.59	146	89567	8.11	ppb	98
76) N-Butylbenzene	7.43	91	285057	8.69	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.27	155	4200	5.92	ppb	85
78) 1,2,4-Trichlorobenzene	8.87	180	30202	5.67	ppb	99
79) Naphthalene	9.16	128	44661	5.34	ppb	99
80) Hexachloro-1,3-butadiene	8.83	225	22604	5.68	ppb	99
81) 1,2,3-Trichlorobenzene	9.33	180	23053	5.22	ppb	99
82) 1-Methylnaphthalene	10.26	142	4292m	1.52	ppb	
83) 2-Methylnaphthalene	10.12	142	6351m	3.54	ppb	

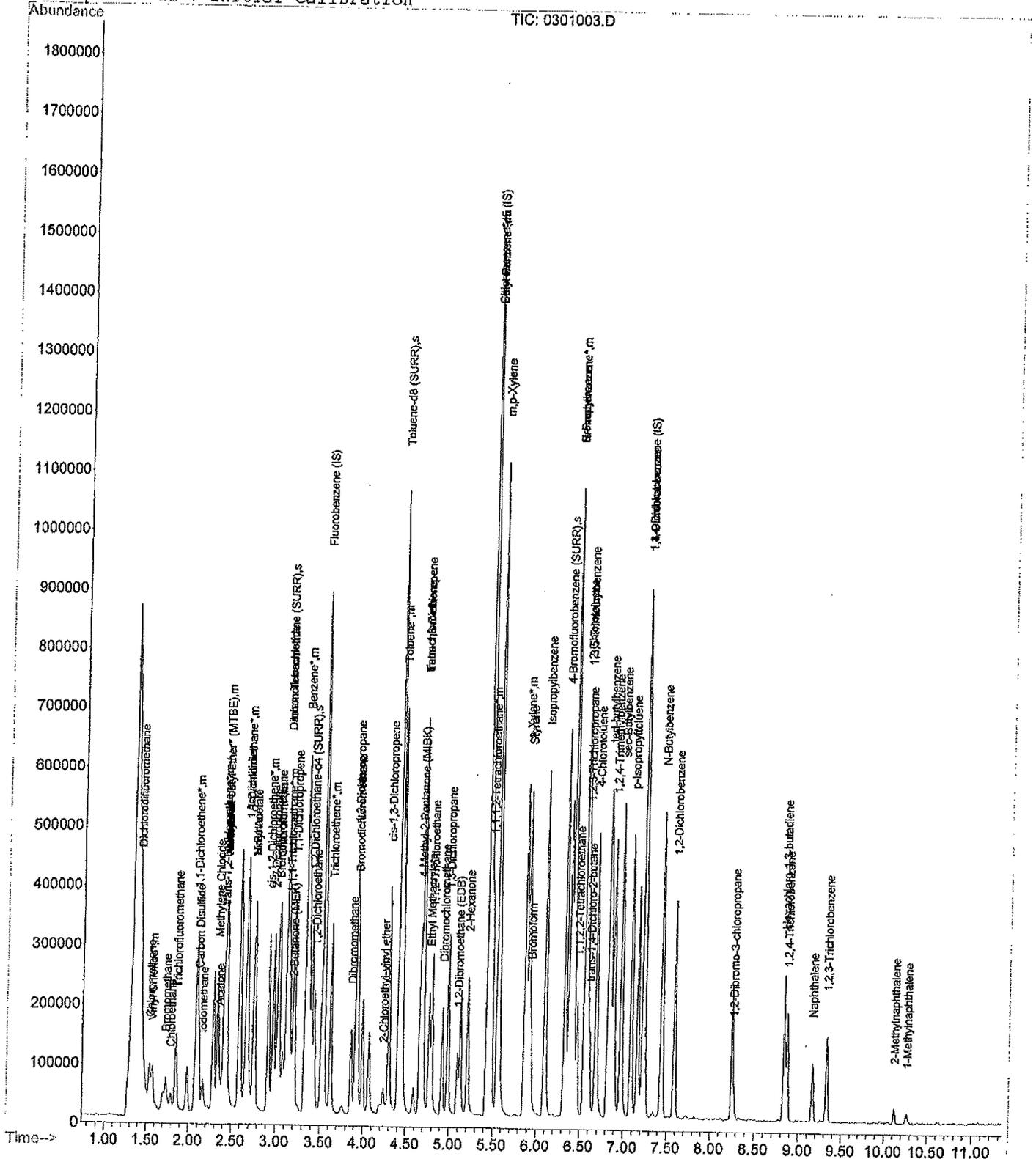
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\0301003.D
 Acq On : 30 Jan 2015 3:41 pm
 Sample : 10ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 3
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0401004.D
 Acq On : 30 Jan 2015 4:00 pm
 Sample : 20ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 4
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:46 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	443286	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.43	117	297519	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.22	152	113921	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.13	113	136608	53.21	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	106.42%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	165678	53.21	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	106.42%
42) Toluene-d8 (SURR)	4.41	98	436342	49.02	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	98.04%
62) 4-Bromofluorobenzene (SURR)	6.32	95	182062	39.74	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	79.48%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	185136	21.82	ppb	100
3) Chloromethane	1.54	50	195597	22.14	ppb	# 96
4) Vinyl Chloride*	1.57	62	158988	22.10	ppb	100
5) Bromomethane	1.74	94	75130	23.57	ppb	# 98
6) Chloroethane	1.80	64	60814	25.04	ppb	100
7) Acrolein	2.43	56	131226	23.32	ppb	99
8) Trichlorofluoromethane	1.85	101	195436	26.16	ppb	100
9) Acetone	2.36	43	104168	59.25	ppb	# 95
10) 1,1-Dichloroethene*	2.09	61	234829	23.74	ppb	99
11) Acrylonitrile	2.67	53	440580	27.22	ppb	92
12) Iodomethane	2.16	142	116530	21.18	ppb	99
13) Methylene Chloride	2.34	84	134850	20.82	ppb	98
14) Carbon Disulfide	2.11	76	332498	23.43	ppb	# 100
15) trans-1,2-Dichloroethene*	2.40	96	106664	23.01	ppb	97
16) Methyl-tert-butyl ether* (	2.44	73	290232	23.23	ppb	99
17) 1,1-Dichloroethane*	2.68	63	416898	24.45	ppb	100
18) Vinyl Acetate	2.76	43	132628	22.94	ppb	# 100
19) N-Hexane	2.43	57	269419	24.02	ppb	98
20) N-Butanol	2.76	57	170291	22.99	ppb	# 99
21) 2-Butanone (MEK)	3.18	43	234135	60.65	ppb	99
22) cis-1,2-Dichloroethene*	2.93	61	319234	23.45	ppb	98
23) Bromochloromethane	3.02	128	74501	23.63	ppb	94
24) Chloroform*	3.04	83	360820	23.89	ppb	100
25) 2-2-Dichloropropane	2.98	77	300431	23.41	ppb	98
28) 1,2-Dichloroethane	3.44	62	256354	23.08	ppb	95
29) 1,1,1-Trichloroethane*	3.16	97	270570	23.56	ppb	99
30) 1,1-Dichloropropene	3.21	75	267056	23.73	ppb	100
31) Carbon Tetrachloride	3.12	117	247487	23.46	ppb	100
32) Benzene*	3.33	78	740914	24.08	ppb	99
33) Dibromomethane	3.86	93	128361	23.67	ppb	98
34) 1,2-Dichloropropane	3.92	63	230803	23.62	ppb	99
35) Trichloroethene*	3.62	95	199171	23.67	ppb	98
36) Bromodichloromethane	3.94	83	281126	23.76	ppb	100
37) 2-Chloroethyl-vinyl ether	4.24	63	16159	109.74	ppb	98
38) cis-1,3-Dichloropropene	4.30	75	328484	23.22	ppb	98
39) 4-Methyl-2-Pentanone (MIBK	4.66	43	613863	61.08	ppb	100
40) trans-1,3-Dichloropropene	4.69	75	278037	24.82	ppb	# 73
41) 1,1,2-Trichloroethane	4.80	83	144013	23.88	ppb	99
43) Toluene*	4.44	91	777585	23.88	ppb	99
44) Ethyl Methacrylate	4.76	69	186282	23.60	ppb	99
45) 1,3-Dichloropropane	4.99	76	277153	24.04	ppb	100
46) 2-Hexanone	5.21	43	446673	59.05	ppb	99
48) Dibromochloromethane	4.92	129	155060	17.62	ppb	100
49) 1,2-Dibromoethane (EDB)	5.10	107	146408	17.88	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0401004.D
 Acq On : 30 Jan 2015 4:00 pm
 Sample : 20ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 4
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:46 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	150725	17.79	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.48	131	131315	18.03	ppb	99
52) Chlorobenzene*	5.45	112	429325	18.55	ppb	96
53) Ethyl Benzene*	5.45	91	885955	19.15	ppb	97
54) m,p-Xylene	5.55	91	1296675	37.98	ppb	98
55) Bromoform	5.94	173	79532	17.74	ppb	# 100
56) Styrene	5.91	104	467499	18.31	ppb	99
57) 1,1,2,2-Tetrachloroethane	6.47	85	135254	18.46	ppb	100
58) o-Xylene*	5.87	106	274480	17.99	ppb	97
59) trans-1,4-Dichloro-2-buten	6.61	53	64381	18.59	ppb	100
60) 1,2,3-Trichloropropane	6.58	75	235995m	184.29	ppb	
61) Isopropylbenzene	6.10	105	740129	18.66	ppb	99
63) Bromobenzene	6.41	156	141983	18.00	ppb	86
64) N-Propylbenzene*	6.42	91	1071897	19.27	ppb	98
65) 2-Chlorotoluene	6.55	91	667343	19.57	ppb	97
66) 4-Chlorotoluene	6.68	126	143913	18.19	ppb	95
68) 1,3,5-Trimethylbenzene	6.57	105	561959	23.93	ppb	98
69) tert-butylbenzene	6.83	119	519838	23.00	ppb	96
70) 1,2,4-Trimethylbenzene	6.88	105	521126	22.95	ppb	99
71) sec-Butylbenzene	6.97	105	778718	23.68	ppb	100
72) 1,3-Dichlorobenzene	7.23	146	237032	22.53	ppb	98
73) 1,4-Dichlorobenzene	7.23	148	152291	22.58	ppb	98
74) p-Isopropyltoluene	7.08	119	523645	23.29	ppb	98
75) 1,2-Dichlorobenzene	7.59	146	212988	21.39	ppb	99
76) N-Butylbenzene	7.44	91	694527	23.46	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.27	155	12766	19.95	ppb	90
78) 1,2,4-Trichlorobenzene	8.87	180	84808	17.65	ppb	100
79) Naphthalene	9.16	128	138266	18.31	ppb	99
80) Hexachloro-1,3-butadiene	8.84	225	60428	16.83	ppb	100
81) 1,2,3-Trichlorobenzene	9.33	180	66193	16.60	ppb	99
82) 1-Methylnaphthalene	10.26	142	22035m	8.63	ppb	
83) 2-Methylnaphthalene	10.12	142	26875m	16.62	ppb	

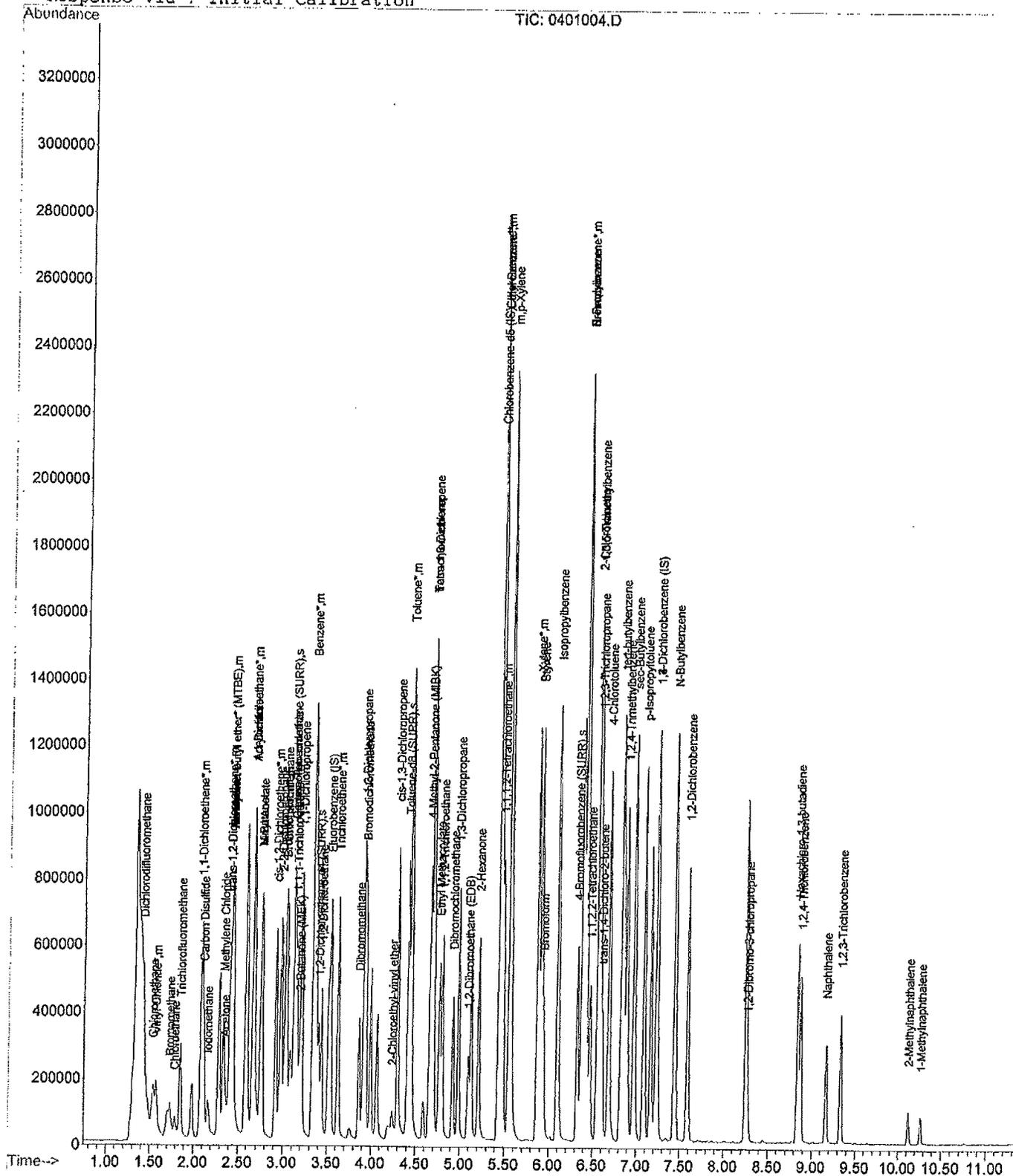
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\0401004.D
 Acq On : 30 Jan 2015 4:00 pm
 Sample : 20ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 4
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0501005.D
 Acq On : 30 Jan 2015 4:19 pm
 Sample : 50ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015

Vial: 5
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Wed Jan 28 11:36:22 2015
 Response via : Initial Calibration
 DataAcq Meth : VQA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	510861	50.00	ppb	-0.04
47) Chlorobenzene-d5 (IS)	5.43	117	342132m	50.00	ppb	-0.07
67) 1,4-Dichlorobenzene (IS)	7.23	152	128742	50.00	ppb	-0.09

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.13	113	147367	51.68	ppb	-0.04
Spiked Amount	50.000	Range	54 - 140	Recovery	=	103.36%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	194320	60.97	ppb	-0.04
Spiked Amount	50.000	Range	54 - 138	Recovery	=	121.94%
42) Toluene-d8 (SURR)	4.41	98	503455	51.34	ppb	-0.06
Spiked Amount	50.000	Range	61 - 127	Recovery	=	102.68%
62) 4-Bromofluorobenzene (SURR)	6.33	95	204017	51.55	ppb	-0.08
Spiked Amount	50.000	Range	69 - 131	Recovery	=	103.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	498250	36.91	ppb	100
3) Chloromethane	1.54	50	522234	41.59	ppb	# 97
4) Vinyl Chloride*	1.57	62	426481	46.59	ppb	100
5) Bromomethane	1.74	94	167455	44.18	ppb	# 100
6) Chloroethane	1.79	64	146032	45.58	ppb	97
7) Acrolein	2.43	56	337646	48.70	ppb	96
8) Trichlorofluoromethane	1.86	101	461599	43.16	ppb	100
9) Acetone	2.36	43	209148	113.67	ppb	97
10) 1,1-Dichloroethene*	2.08	61	600946	49.28	ppb	99
11) Acrylonitrile	2.66	53	917861	39.35	ppb	98
12) Iodomethane	2.16	142	340020	51.73	ppb	94
13) Methylene Chloride	2.34	84	313458	57.05	ppb	92
14) Carbon Disulfide	2.12	76	857069	50.81	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	277487	50.81	ppb	97
16) Methyl-tert-butyl ether* (	2.44	73	721629	46.44	ppb	96
17) 1,1-Dichloroethane*	2.68	63	1001560	39.74	ppb	99
18) Vinyl Acetate	2.76	43	336212	40.64	ppb	# 100
19) N-Hexane	2.43	57	674219	49.62	ppb	100
20) N-Butanol	2.76	57	435110	37.84	ppb	# 96
21) 2-Butanone (MEK)	3.19	43	562617	98.83	ppb	98
22) cis-1,2-Dichloroethene*	2.92	61	813431	39.69	ppb	99
23) Bromochloromethane	3.02	128	191390	39.46	ppb	96
24) Chloroform*	3.04	83	905263	40.28	ppb	99
25) 2-2-Dichloropropane	2.98	77	778716	40.33	ppb	99
28) 1,2-Dichloroethane	3.44	62	663159	41.67	ppb	98
29) 1,1,1-Trichloroethane*	3.15	97	700037	42.40	ppb	100
30) 1,1-Dichloropropene	3.21	75	702009	41.44	ppb	100
31) Carbon Tetrachloride	3.13	117	654087	41.72	ppb	99
32) Benzene*	3.34	78	1872526	41.16	ppb	100
33) Dibromomethane	3.86	93	326373	41.30	ppb	100
34) 1,2-Dichloropropane	3.92	63	596845	40.61	ppb	98
35) Trichloroethene*	3.63	95	504821	40.64	ppb	97
36) Bromodichloromethane	3.93	83	723413	40.84	ppb	100
37) 2-Chloroethyl-vinyl ether	4.23	63	30180	174.58	ppb	91
38) cis-1,3-Dichloropropene	4.30	75	852135	39.69	ppb	99
39) 4-Methyl-2-Pentanone (MIBK)	4.66	43	1472722	99.80	ppb	100
40) trans-1,3-Dichloropene	4.69	75	681986	42.32	ppb	80
41) 1,1,2-Trichloroethane	4.80	83	366584	41.47	ppb	98
43) Toluene*	4.44	91	1927147	38.79	ppb	100
44) Ethyl Methacrylate	4.77	69	480059	38.69	ppb	95
45) 1,3-Dichloropropane	4.99	76	692681	39.57	ppb	100
46) 2-Hexanone	5.21	43	1095542	93.46	ppb	99
48) Dibromochloromethane	4.92	129	419618	40.92	ppb	99
49) 1,2-Dibromoethane (EDB)	5.10	107	374153	40.58	ppb	100

(#) = qualifier out of range (m) = manual integration
 0501005.D 013015RC.M Thu Feb 05 23:32:52 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0501005.D Vial: 5
 Acq On : 30 Jan 2015 4:19 pm Operator: gjd
 Sample : 50ppb 8260 ical Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015 Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Wed Jan 28 11:36:22 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	397920	41.00	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.48	131	344470	40.38	ppb	99
52) Chlorobenzene*	5.45	112	1114786	44.30	ppb	99
53) Ethyl Benzene*	5.46	91	2130539	43.79	ppb	100
54) m,p-Xylene	5.55	91	3216159	89.25	ppb	99
55) Bromoform	5.94	173	213750	39.78	ppb	# 100
56) Styrene	5.91	104	1209699	42.17	ppb	99
57) 1,1,2,2-Tetrachloroethane	6.47	85	341049	62.36	ppb	# 100
58) o-Xylene*	5.87	106	725651	42.03	ppb	98
59) trans-1,4-Dichloro-2-buten	6.61	53	158854	43.01	ppb	97
60) 1,2,3-Trichloropropane	6.59	75	564308m	59.75	ppb	
61) Isopropylbenzene	6.10	105	1921999	41.39	ppb	98
63) Bromobenzene	6.41	156	391524	44.88	ppb	97
64) N-Propylbenzene*	6.42	91	2667657	46.46	ppb	99
65) 2-Chlorotoluene	6.55	91	1382113	36.20	ppb	96
66) 4-Chlorotoluene	6.69	126	377900	40.75	ppb	92
68) 1,3,5-Trimethylbenzene	6.57	105	1435941	46.39	ppb	98
69) tert-butylbenzene	6.83	119	1378830	44.33	ppb	96
70) 1,2,4-Trimethylbenzene	6.89	105	1395957	43.23	ppb	98
71) sec-Butylbenzene	6.97	105	2086559	44.92	ppb	99
72) 1,3-Dichlorobenzene	7.24	146	642805	42.29	ppb	100
73) 1,4-Dichlorobenzene	7.24	148	405669	42.97	ppb	98
74) p-Isopropyltoluene	7.09	119	1385813	43.48	ppb	99
75) 1,2-Dichlorobenzene	7.59	146	605451	46.63	ppb	100
76) N-Butylbenzene	7.43	91	1894962	46.17	ppb	98
77) 1,2-Dibromo-3-chloropropan	8.27	155	37645	39.64	ppb	94
78) 1,2,4-Trichlorobenzene	8.87	180	300138	40.89	ppb	97
79) Naphthalene	9.17	128	456030	40.82	ppb	100
80) Hexachloro-1,3-butadiene	8.84	225	210430	41.76	ppb	100
81) 1,2,3-Trichlorobenzene	9.33	180	239969	39.29	ppb	99
82) 1-Methylnaphthalene	10.26	142	97450m	27.39	ppb	
83) 2-Methylnaphthalene	10.12	142	119743m	32.05	ppb	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0701007.D
 Acq On : 30 Jan 2015 4:56 pm
 Sample : 100ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015

Vial: 7
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:07:30 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	450781	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.44	117	304204	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.23	152	120847	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.13	113	132331	50.69	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	101.38%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	155602	49.14	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.28%
42) Toluene-d8 (SURR)	4.41	98	463627	51.22	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	102.44%
62) 4-Bromofluorobenzene (SURR)	6.33	95	200806	27.38	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	54.76%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	977902	113.35	ppb	100
3) Chloromethane	1.54	50	1010664	112.49	ppb	# 96
4) Vinyl Chloride*	1.57	62	819938	112.07	ppb	100
5) Bromomethane	1.74	94	262506	99.42	ppb	# 98
6) Chloroethane	1.79	64	241753	97.89	ppb	95
7) Acrolein	2.43	56	601385	105.09	ppb	100
8) Trichlorofluoromethane	1.85	101	721604	94.97	ppb	99
9) Acetone	2.36	43	401492	224.55	ppb	99
10) 1,1-Dichloroethene*	2.08	61	1095520	108.93	ppb	99
11) Acrylonitrile	2.67	53	1717837	104.37	ppb	100
12) Iodomethane	2.17	142	673715	120.41	ppb	100
13) Methylene Chloride	2.34	84	561480	85.25	ppb	98
14) Carbon Disulfide	2.12	76	1580177	109.50	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	507267	107.63	ppb	99
16) Methyl-tert-butyl ether* (	2.45	73	1331948	104.84	ppb	95
17) 1,1-Dichloroethane*	2.68	63	1843835	106.33	ppb	99
18) Vinyl Acetate	2.76	43	640826	108.98	ppb	# 100
19) N-Hexane	2.43	57	1173702	102.89	ppb	98
20) N-Butanol	2.76	57	810946	107.65	ppb	# 98
21) 2-Butanone (MEK)	3.19	43	1056043	269.01	ppb	99
22) cis-1,2-Dichloroethene*	2.92	61	1462509	105.64	ppb	99
23) Bromochloromethane	3.02	128	362240	112.98	ppb	90
24) Chloroform*	3.04	83	1596928	103.98	ppb	100
25) 2-2-Dichloropropane	2.98	77	1438564	110.23	ppb	98
28) 1,2-Dichloroethane	3.44	62	1227164	108.64	ppb	98
29) 1,1,1-Trichloroethane*	3.16	97	1265150	108.32	ppb	99
30) 1,1-Dichloropropene	3.21	75	1249438	109.18	ppb	99
31) Carbon Tetrachloride	3.13	117	1211645	112.95	ppb	99
32) Benzene*	3.34	78	3267315	104.42	ppb	100
33) Dibromomethane	3.87	93	615655	111.65	ppb	98
34) 1,2-Dichloropropane	3.92	63	1061224	106.79	ppb	98
35) Trichloroethene*	3.63	95	906061	105.91	ppb	98
36) Bromodichloromethane	3.94	83	1285780	106.86	ppb	100
37) 2-Chloroethyl-vinyl ether	4.24	63	45945	306.85	ppb	95
38) cis-1,3-Dichloropropene	4.30	75	1606188	111.66	ppb	98
39) 4-Methyl-2-Pentanone (MIBK)	4.67	43	2809758	274.93	ppb	99
40) trans-1,3-Dichloropene	4.70	75	1208006	106.04	ppb	96
41) 1,1,2-Trichloroethane	4.81	83	659946	107.61	ppb	98
43) Toluene*	4.45	91	3483272	105.21	ppb	100
44) Ethyl Methacrylate	4.77	69	903256	112.52	ppb	98
45) 1,3-Dichloropropane	4.99	76	1308963	111.67	ppb	100
46) 2-Hexanone	5.21	43	2210856	287.44	ppb	99
48) Dibromochloromethane	4.92	129	806939	63.51	ppb	100
49) 1,2-Dibromoethane (EDB)	5.10	107	745878	63.43	ppb	100

(#) = qualifier out of range (m) = manual integration
 0701007.D 013015RC.M Thu Feb 05 23:32:59 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0701007.D
 Acq On : 30 Jan 2015 4:56 pm
 Sample : 100ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015

Vial: 7
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:07:30 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	740834	58.00	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.49	131	617989	55.67	ppb	99
52) Chlorobenzene*	5.45	112	1879123	51.75	ppb	96
53) Ethyl Benzene*	5.46	91	3515882	47.45	ppb	98
54) m,p-Xylene	5.55	91	5210017	93.34	ppb	99
55) Bromoform	5.94	173	426490	68.18	ppb	# 99
56) Styrene	5.91	104	2249763	57.39	ppb	98
57) 1,1,2,2-Tetrachloroethane	6.47	85	632547	58.94	ppb	99
58) o-Xylene*	5.87	106	1313336	56.11	ppb	97
59) trans-1,4-Dichloro-2-buten	6.61	53	306892	60.50	ppb	100
60) 1,2,3-Trichloropropane	6.59	75	1043333m	516.24	ppb	
61) Isopropylbenzene	6.10	105	3292697	54.44	ppb	98
63) Bromobenzene	6.42	156	723235	61.52	ppb	87
64) N-Propylbenzene*	6.42	91	4419635	50.00	ppb	98
65) 2-Chlorotoluene	6.55	91	2840018	52.31	ppb	96
66) 4-Chlorotoluene	6.69	126	692516	57.79	ppb	93
68) 1,3,5-Trimethylbenzene	6.57	105	2525180	101.36	ppb	99
69) tert-butylbenzene	6.83	119	2566416	107.02	ppb	96
70) 1,2,4-Trimethylbenzene	6.89	105	2476971	102.82	ppb	99
71) sec-Butylbenzene	6.97	105	3498171	100.29	ppb	99
72) 1,3-Dichlorobenzene	7.24	146	1195654	107.15	ppb	99
73) 1,4-Dichlorobenzene	7.24	148	764909	106.91	ppb	98
74) p-Isopropyltoluene	7.09	119	2520017	105.68	ppb	99
75) 1,2-Dichlorobenzene	7.59	146	1194330	113.08	ppb	99
76) N-Butylbenzene	7.44	91	3354003	106.81	ppb	98
77) 1,2-Dibromo-3-chloropropan	8.28	155	83008	122.27	ppb	99
78) 1,2,4-Trichlorobenzene	8.87	180	704748	138.29	ppb	99
79) Naphthalene	9.17	128	1079059	134.73	ppb	100
80) Hexachloro-1,3-butadiene	8.84	225	514857	135.17	ppb	99
81) 1,2,3-Trichlorobenzene	9.34	180	587039	138.82	ppb	99
82) 1-Methylnaphthalene	10.27	142	265602m	98.09	ppb	
83) 2-Methylnaphthalene	10.13	142	380404m	221.71	ppb	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0901009.D Vial: 9
 Acq On : 30 Jan 2015 5:33 pm Operator: gjd
 Sample : 200ppb 8260 ical Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015 Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:07:54 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	423359	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.44	117	281364	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.23	152	102827	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.14	113	108481	44.25	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	88.50%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	152694	51.35	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.70%
42) Toluene-d8 (SURR)	4.42	98	449441	52.87	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	105.74%
62) 4-Bromofluorobenzene (SURR)	6.33	95	182942	26.03	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	52.06%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.43	85	1862377	229.86	ppb	100
3) Chloromethane	1.54	50	1895690	224.67	ppb #	95
4) Vinyl Chloride*	1.57	62	1587226	230.99	ppb	100
5) Bromomethane	1.73	94	346553	201.64	ppb	99
6) Chloroethane	1.79	64	314490	135.58	ppb	91
7) Acrolein	2.43	56	1038451	193.23	ppb	99
8) Trichlorofluoromethane	1.85	101	962418	134.87	ppb	99
9) Acetone	2.36	43	705323	420.03	ppb #	94
10) 1,1-Dichloroethene*	2.08	61	1803331	190.93	ppb	100
11) Acrylonitrile	2.67	53	2595748	167.93	ppb	99
12) Iodomethane	2.16	142	1239414	235.87	ppb	99
13) Methylene Chloride	2.34	84	1009153	163.15	ppb	80
14) Carbon Disulfide	2.11	76	2605959	192.27	ppb #	100
15) trans-1,2-Dichloroethene*	2.41	96	872384	197.08	ppb	99
16) Methyl-tert-butyl ether* (	2.45	73	2333020	195.54	ppb	93
17) 1,1-Dichloroethane*	2.68	63	2842153	174.51	ppb	99
18) Vinyl Acetate	2.76	43	1032038	186.87	ppb #	100
19) N-Hexane	2.43	57	2008530	187.48	ppb	97
20) N-Butanol	2.76	57	1289995	182.33	ppb #	99
21) 2-Butanone (MEK)	3.19	43	1618510	438.99	ppb	99
22) cis-1,2-Dichloroethene*	2.93	61	2527179	194.36	ppb	99
23) Bromochloromethane	3.02	128	593220	197.00	ppb	81
24) Chloroform*	3.04	83	2552295	176.95	ppb	100
25) 2-2-Dichloropropane	2.98	77	2421133	197.53	ppb	97
28) 1,2-Dichloroethane	3.44	62	2073992	195.50	ppb	94
29) 1,1,1-Trichloroethane*	3.16	97	2010933	183.32	ppb	97
30) 1,1-Dichloropropene	3.22	75	1898642	176.66	ppb	99
31) Carbon Tetrachloride	3.13	117	1967142	195.26	ppb	98
32) Benzene*	3.34	78	4926541	167.65	ppb	98
33) Dibromomethane	3.87	93	1026801	198.28	ppb	95
34) 1,2-Dichloropropane	3.92	63	1597258	171.14	ppb	93
35) Trichloroethene*	3.63	95	1468253	182.74	ppb	96
36) Bromodichloromethane	3.94	83	2063391	182.60	ppb	99
37) 2-Chloroethyl-vinyl ether	4.24	63	93463	664.63	ppb	93
38) cis-1,3-Dichloropropene	4.30	75	2642395	195.59	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.67	43	4383408	456.69	ppb	98
40) trans-1,3-Dichloropene	4.70	75	1764302	164.91	ppb	94
41) 1,1,2-Trichloroethane	4.81	83	1052136	182.68	ppb	96
43) Toluene*	4.45	91	5642755	181.48	ppb	100
44) Ethyl Methacrylate	4.77	69	1453149	192.74	ppb	95
45) 1,3-Dichloropropane	4.99	76	2081303	189.05	ppb	100
46) 2-Hexanone	5.22	43	3645349	504.64	ppb	99
48) Dibromochloromethane	4.93	129	1374261	112.22	ppb	100
49) 1,2-Dibromoethane (EDB)	5.10	107	1253084	110.57	ppb	100

(#) = qualifier out of range (m) = manual integration
 0901009.D 013015RC.M Thu Feb 05 23:33:05 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0901009.D
 Acq On : 30 Jan 2015 5:33 pm
 Sample : 200ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 9
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:07:54 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.70	166	1180059	96.19	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.49	131	1030792	96.83	ppb	97
52) Chlorobenzene*	5.45	112	2799572	80.61	ppb	94
53) Ethyl Benzene*	5.46	91	5128038	72.56	ppb	96
54) m,p-Xylene	5.56	91	7019983	131.90	ppb	98
55) Bromoform	5.94	173	717057	118.58	ppb	100
56) Styrene	5.92	104	3338107	88.69	ppb	98
57) 1,1,2,2-Tetrachloroethane	6.48	85	995538	96.54	ppb	99
58) o-Xylene*	5.88	106	2109307	93.95	ppb	94
59) trans-1,4-Dichloro-2-buten	6.62	53	474059	97.16	ppb	97
60) 1,2,3-Trichloropropane	6.59	75	1505181m	778.79	ppb	
61) Isopropylbenzene	6.11	105	5148290	88.83	ppb	97
63) Bromobenzene	6.42	156	1065879	94.19	ppb	79
64) N-Propylbenzene*	6.43	91	5879917	69.62	ppb	96
65) 2-Chlorotoluene	6.56	91	3902977	75.12	ppb	92
66) 4-Chlorotoluene	6.69	126	1089767	94.71	ppb	85
68) 1,3,5-Trimethylbenzene	6.58	105	3527086	166.39	ppb	98
69) tert-butylbenzene	6.84	119	3768461	184.69	ppb	94
70) 1,2,4-Trimethylbenzene	6.89	105	3595344	175.40	ppb	97
71) sec-Butylbenzene	6.98	105	5067924	170.75	ppb	97
72) 1,3-Dichlorobenzene	7.25	146	1837599	193.54	ppb	97
73) 1,4-Dichlorobenzene	7.25	148	1192161	195.83	ppb	95
74) p-Isopropyltoluene	7.09	119	3725516	183.61	ppb	97
75) 1,2-Dichlorobenzene	7.60	146	1964457	218.60	ppb	98
76) N-Butylbenzene	7.44	91	4893195	183.14	ppb	97
77) 1,2-Dibromo-3-chloropropan	8.28	155	165803	287.02	ppb	94
78) 1,2,4-Trichlorobenzene	8.88	180	1345579	310.32	ppb	98
79) Naphthalene	9.17	128	2223822	326.33	ppb	100
80) Hexachloro-1,3-butadiene	8.84	225	1057721	326.36	ppb	99
81) 1,2,3-Trichlorobenzene	9.34	180	1229678	341.74	ppb	98
82) 1-Methylnaphthalene	10.27	142	627791m	272.48	ppb	
83) 2-Methylnaphthalene	10.13	142	921387m	631.11	ppb	

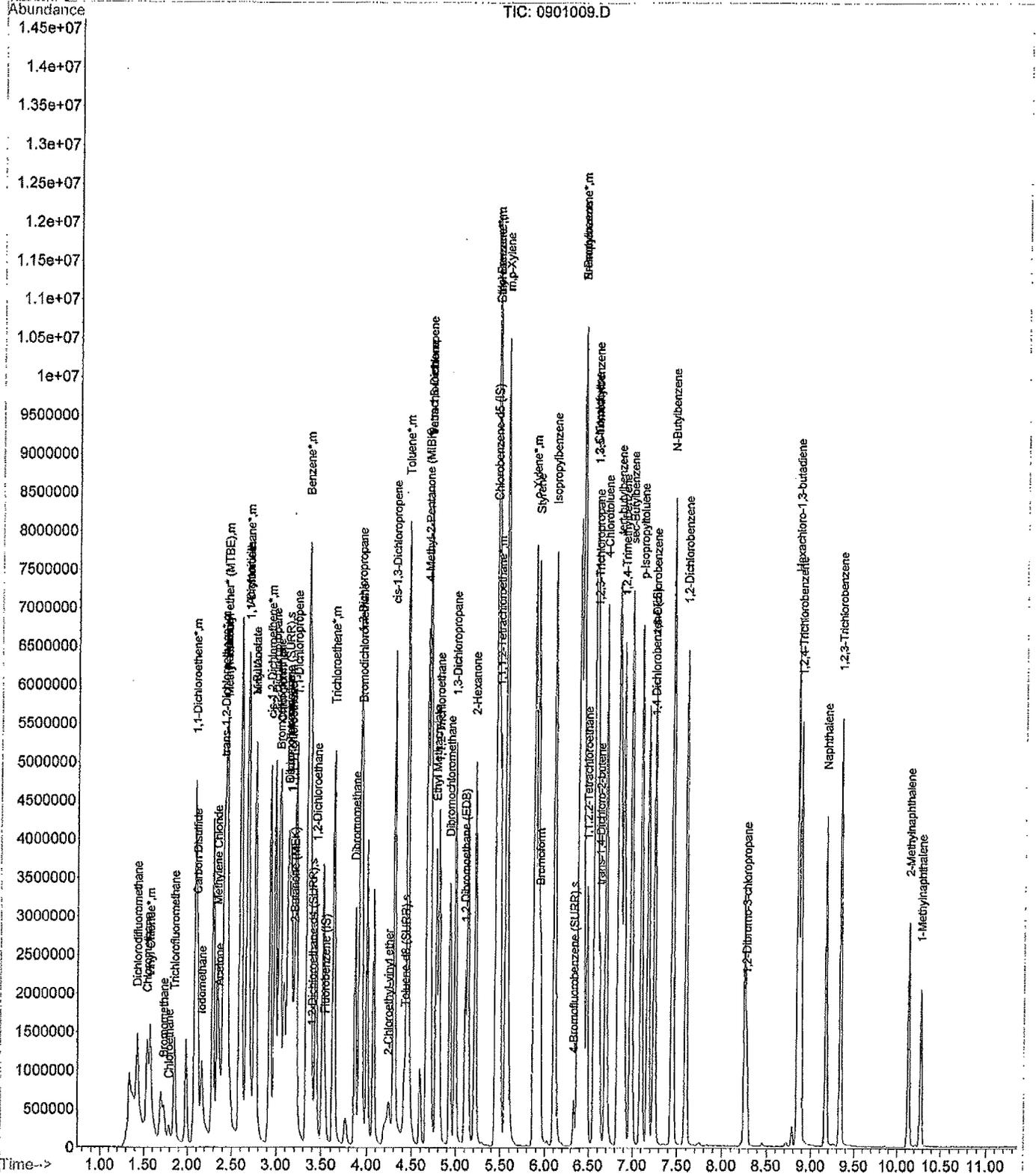
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\0901009.D
 Acq On : 30 Jan 2015 5:33 pm
 Sample : 200ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 9
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

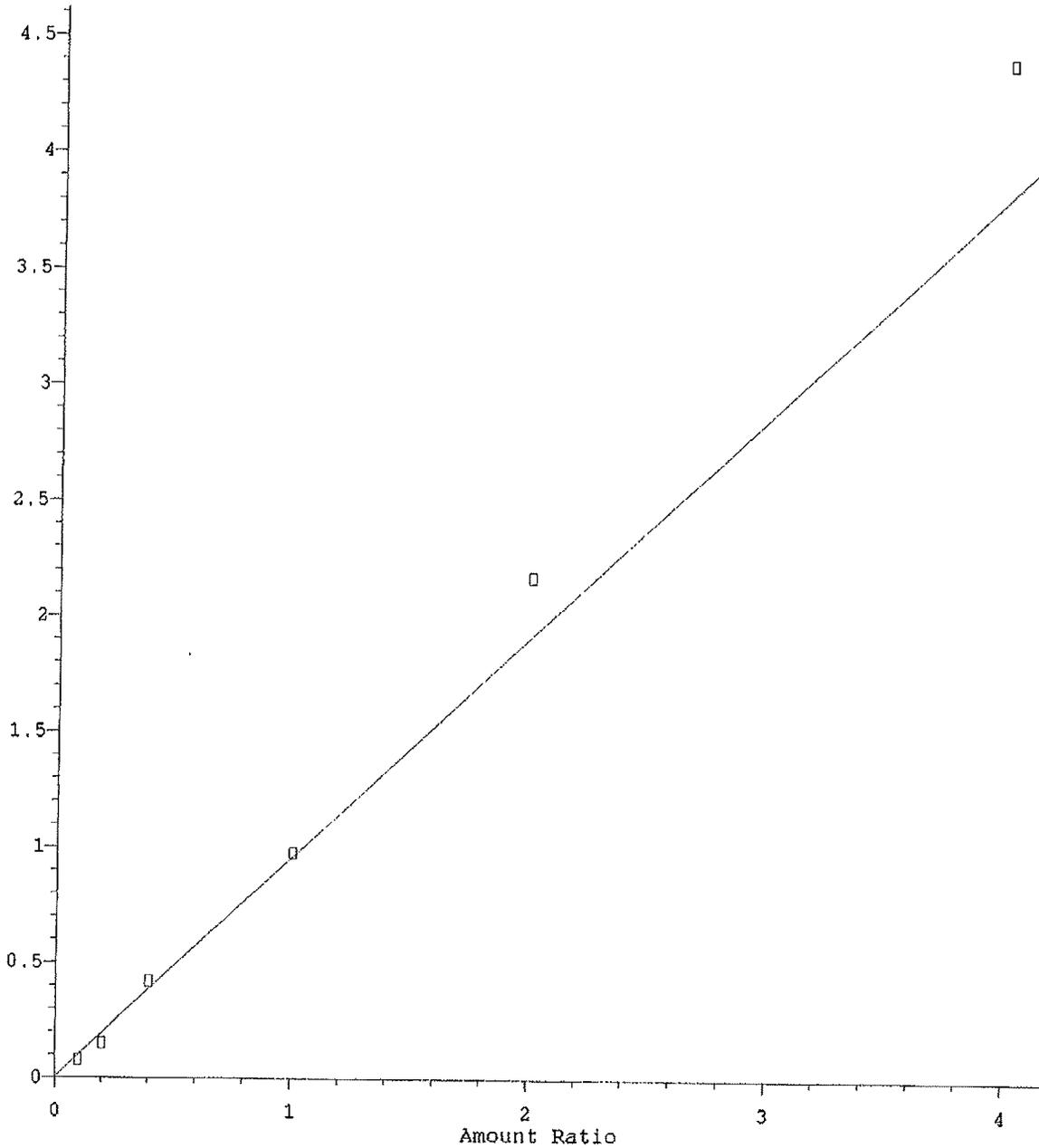
Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



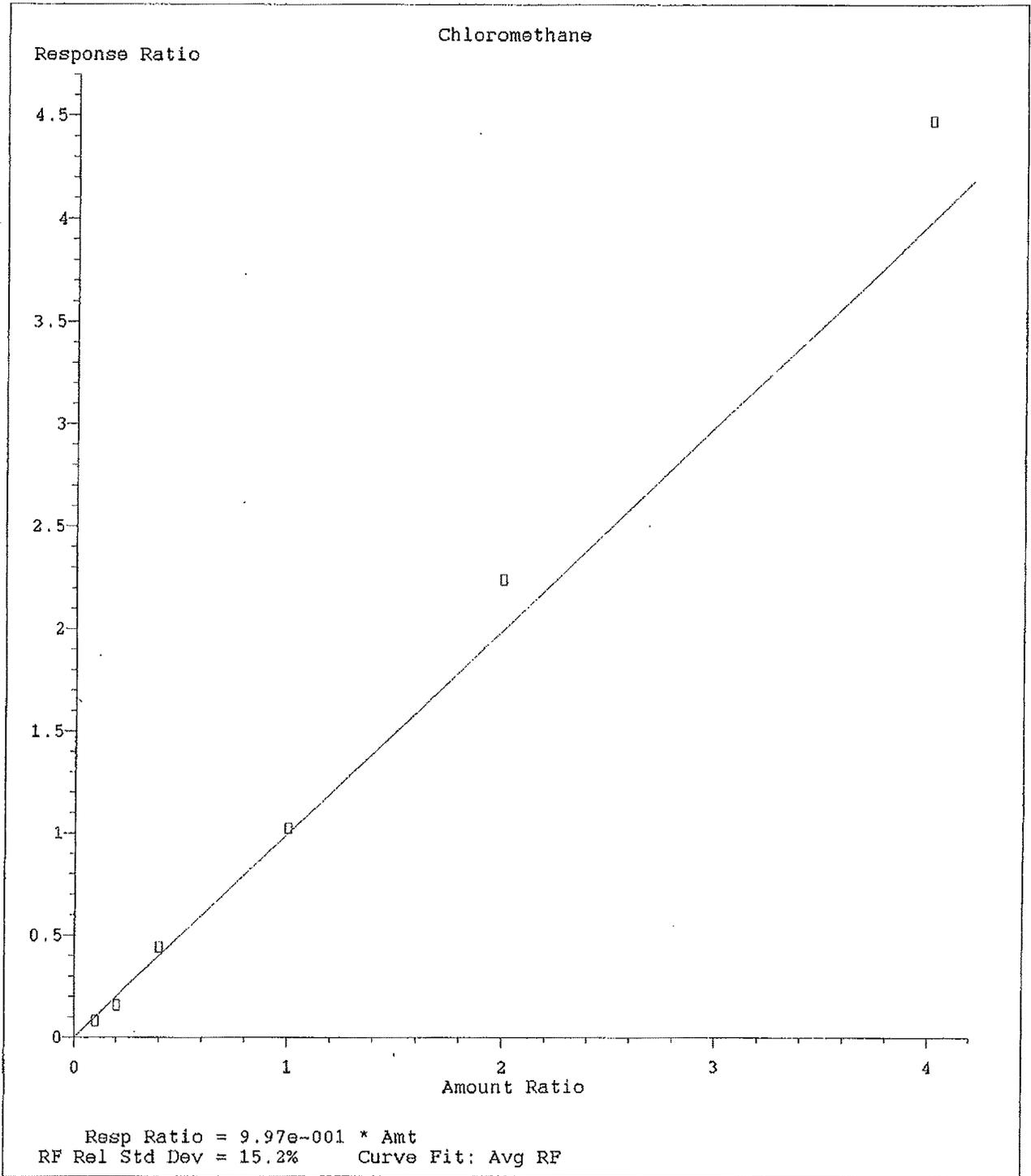
Dichlorodifluoromethane

Response Ratio

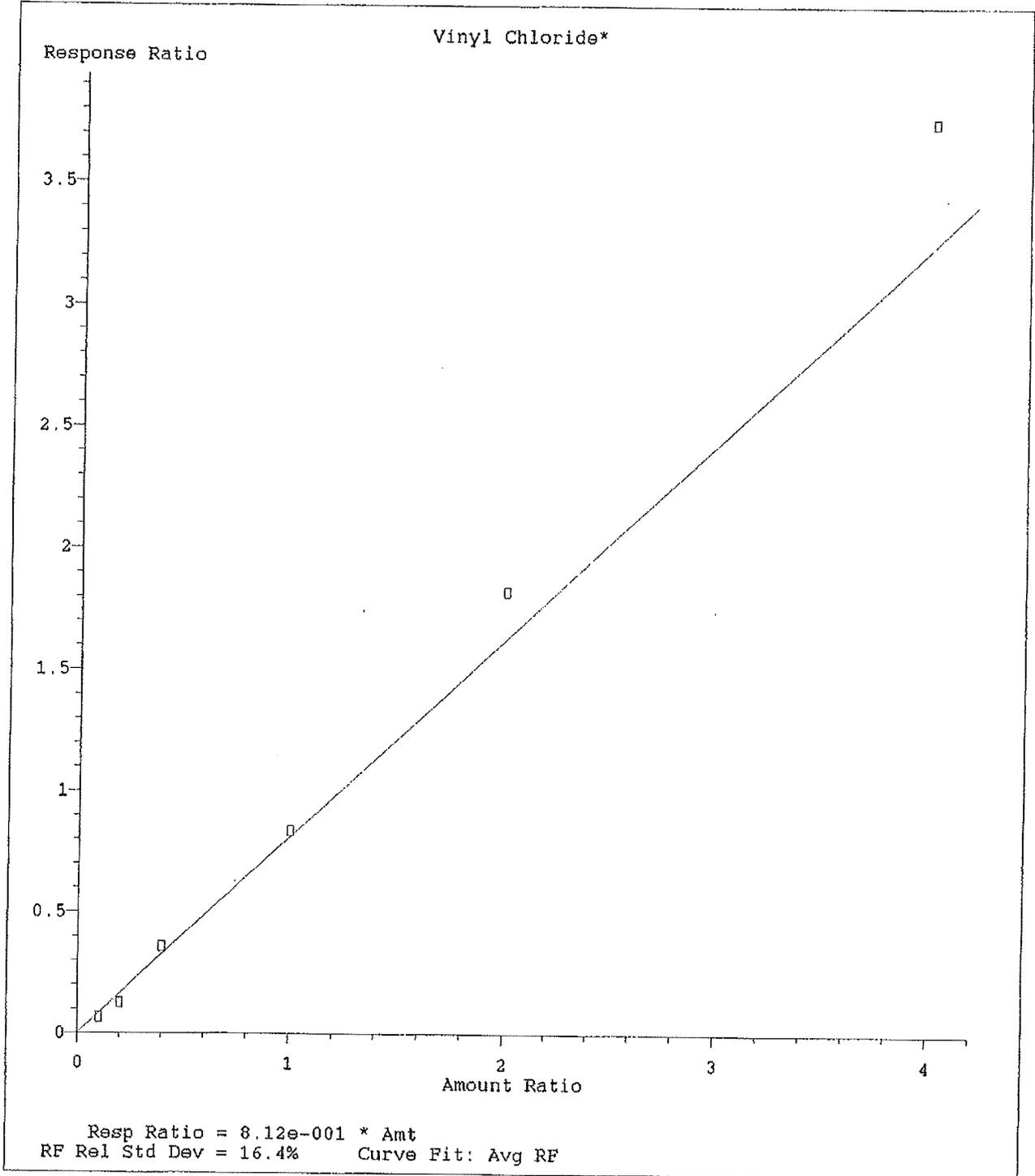


Resp Ratio = 9.57e-001 * Amt
RF Rel Std Dev = 15.9% Curve Fit: Avg RF

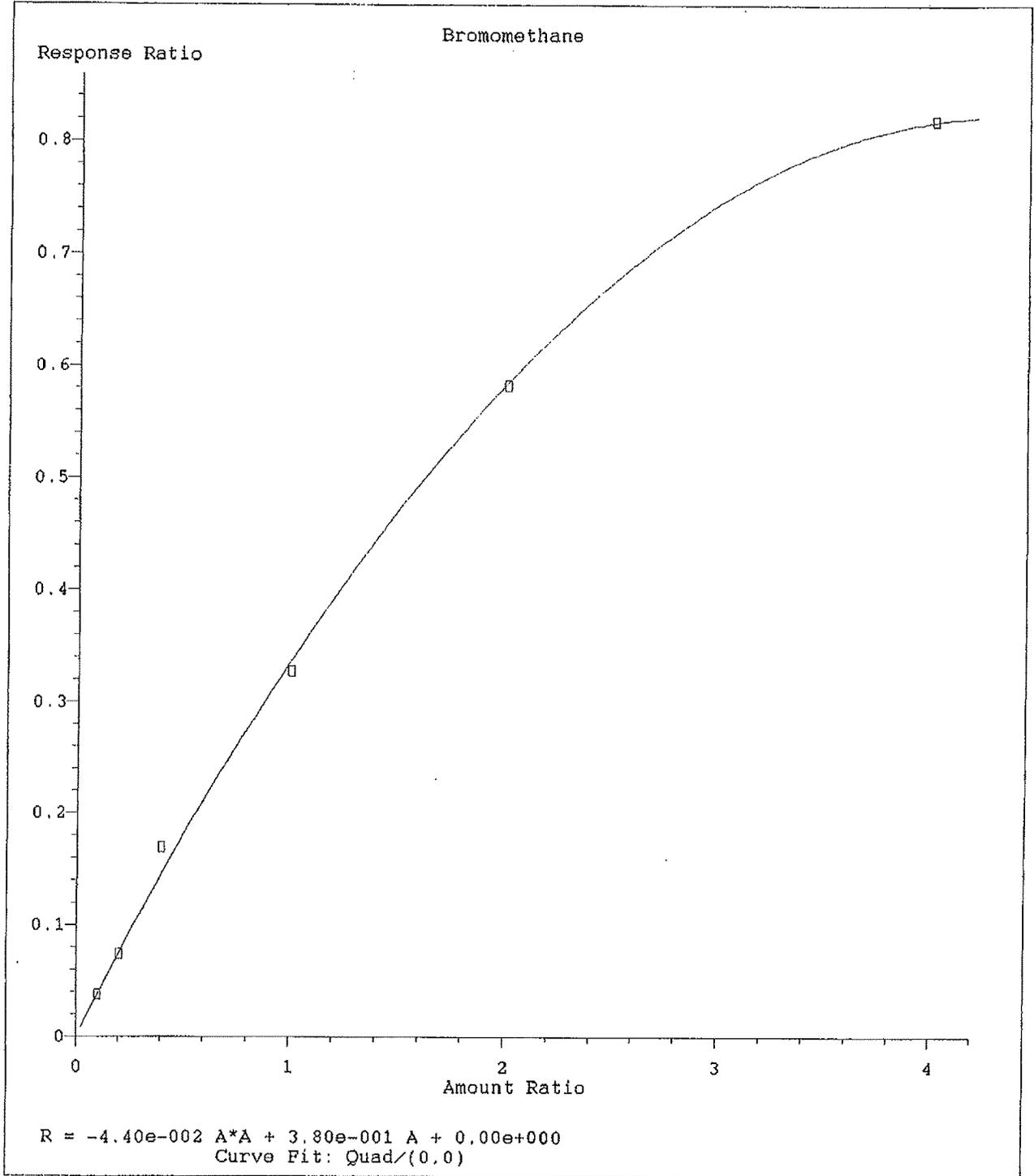
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



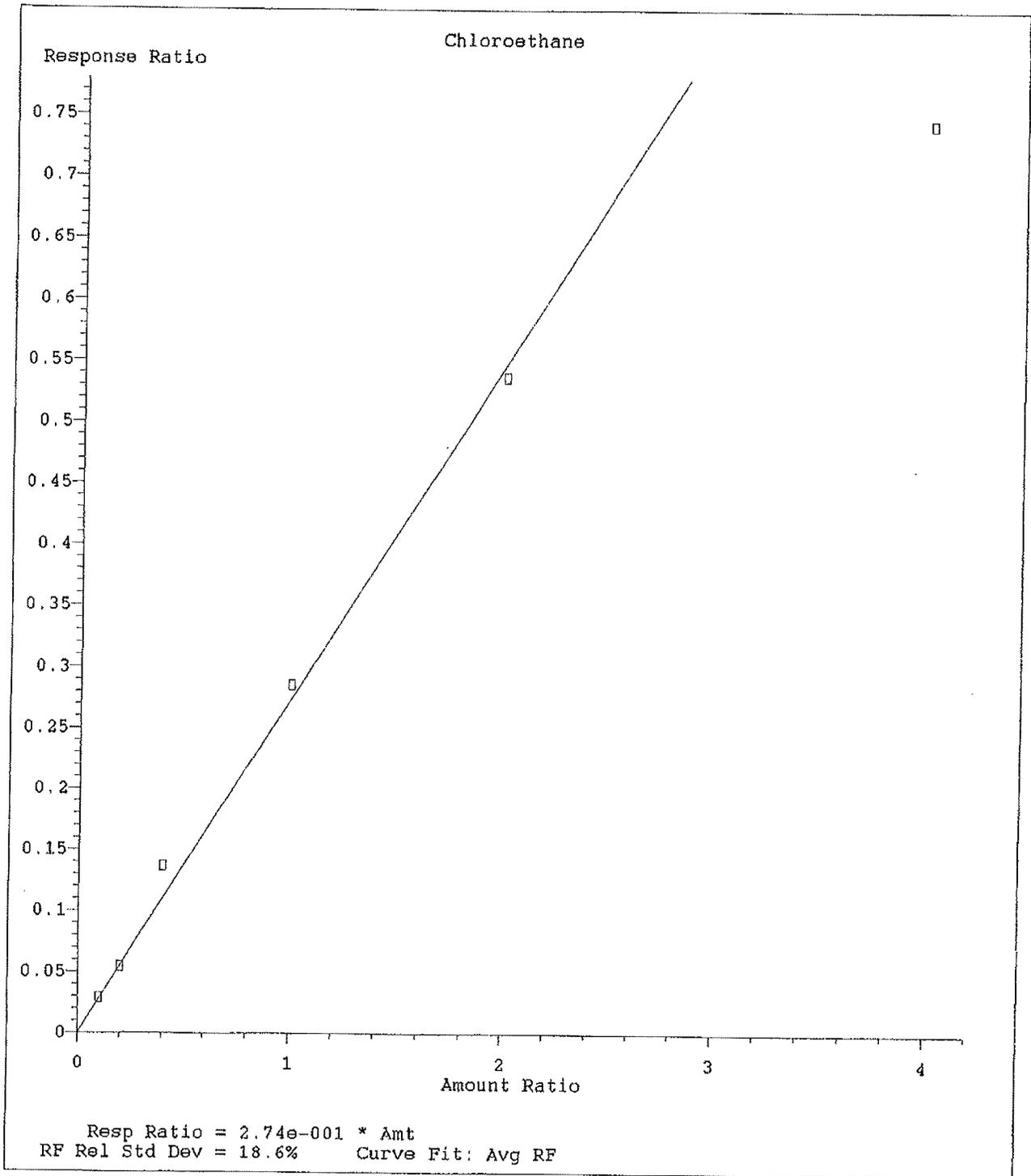
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



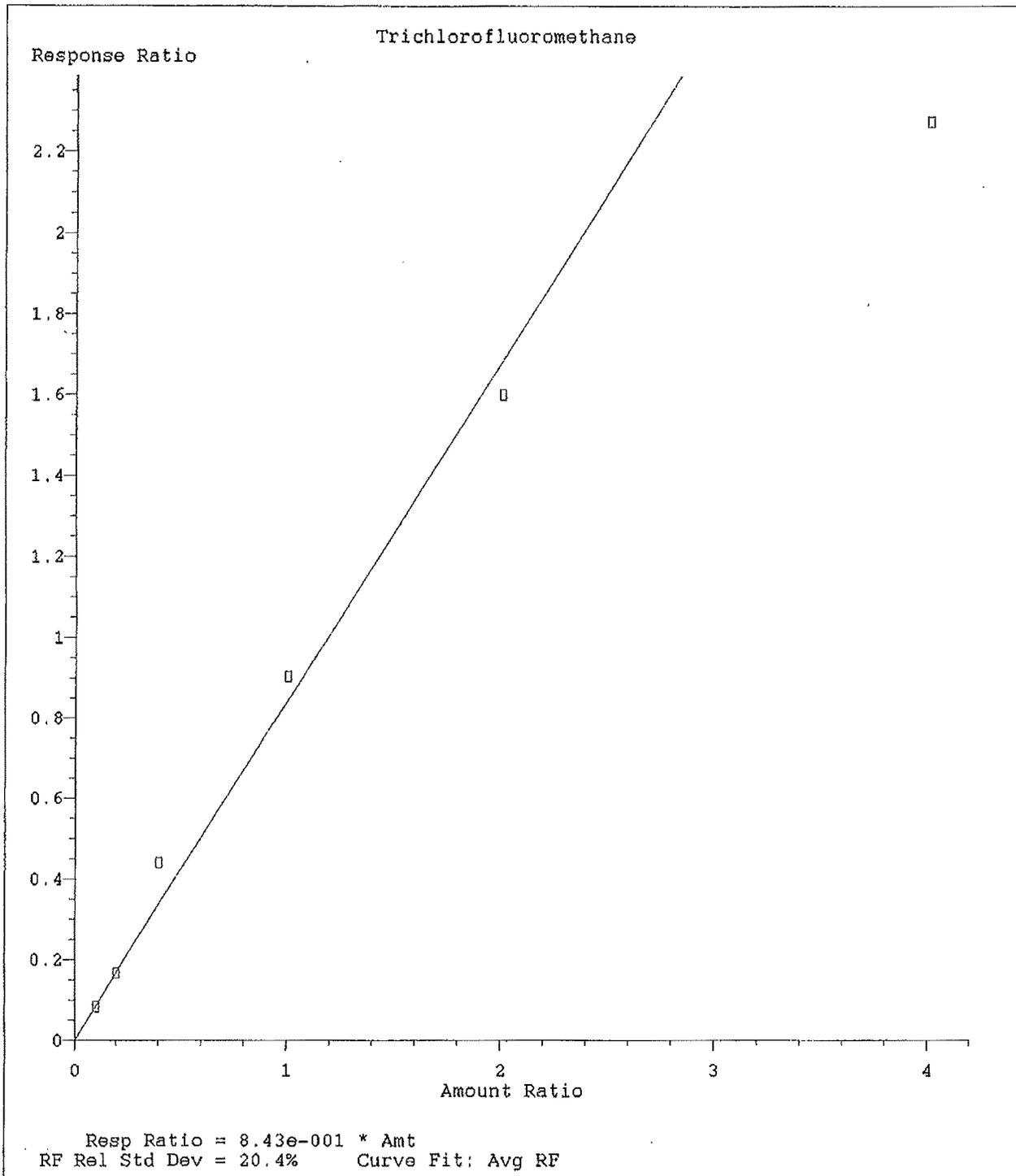
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



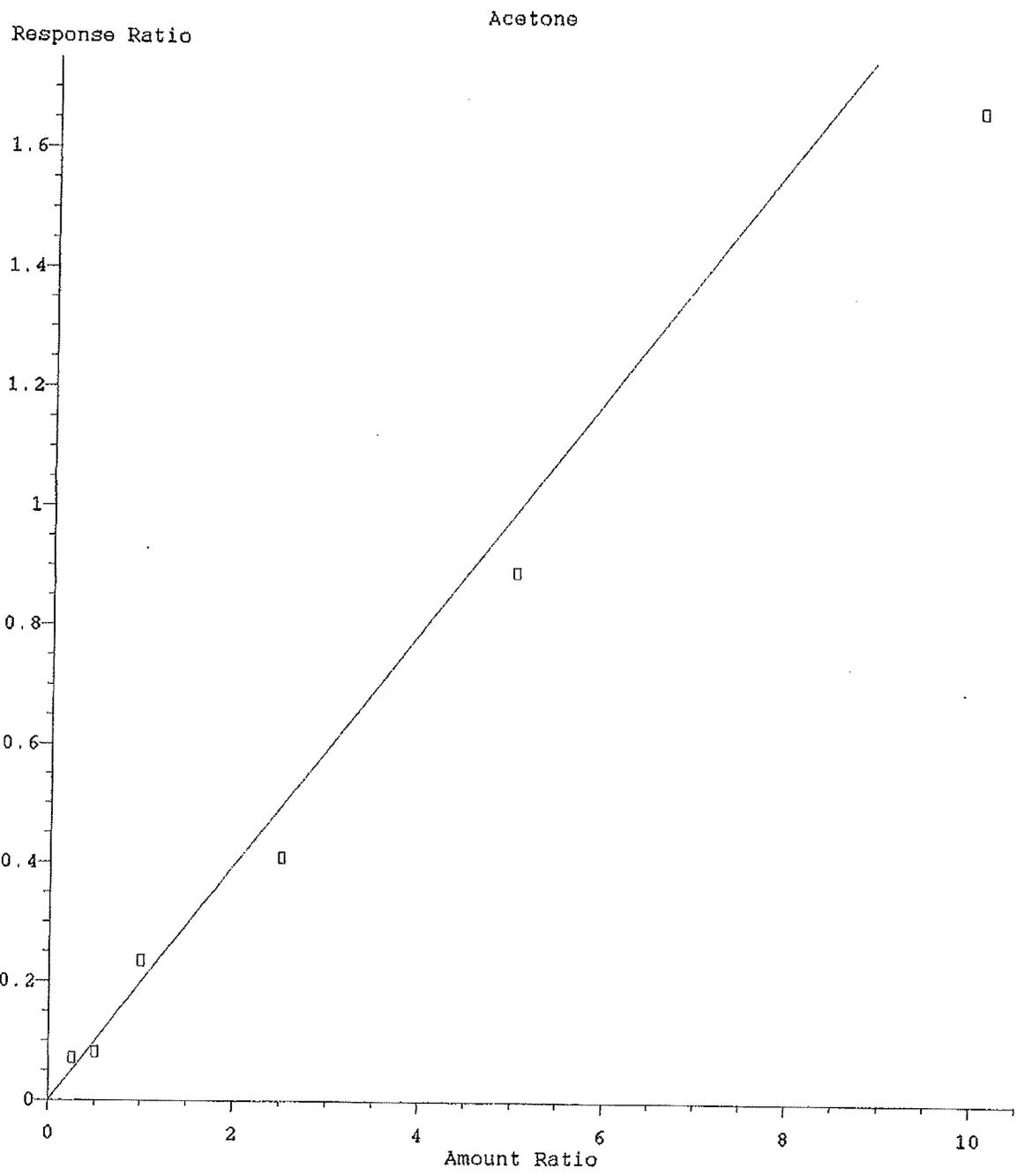
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

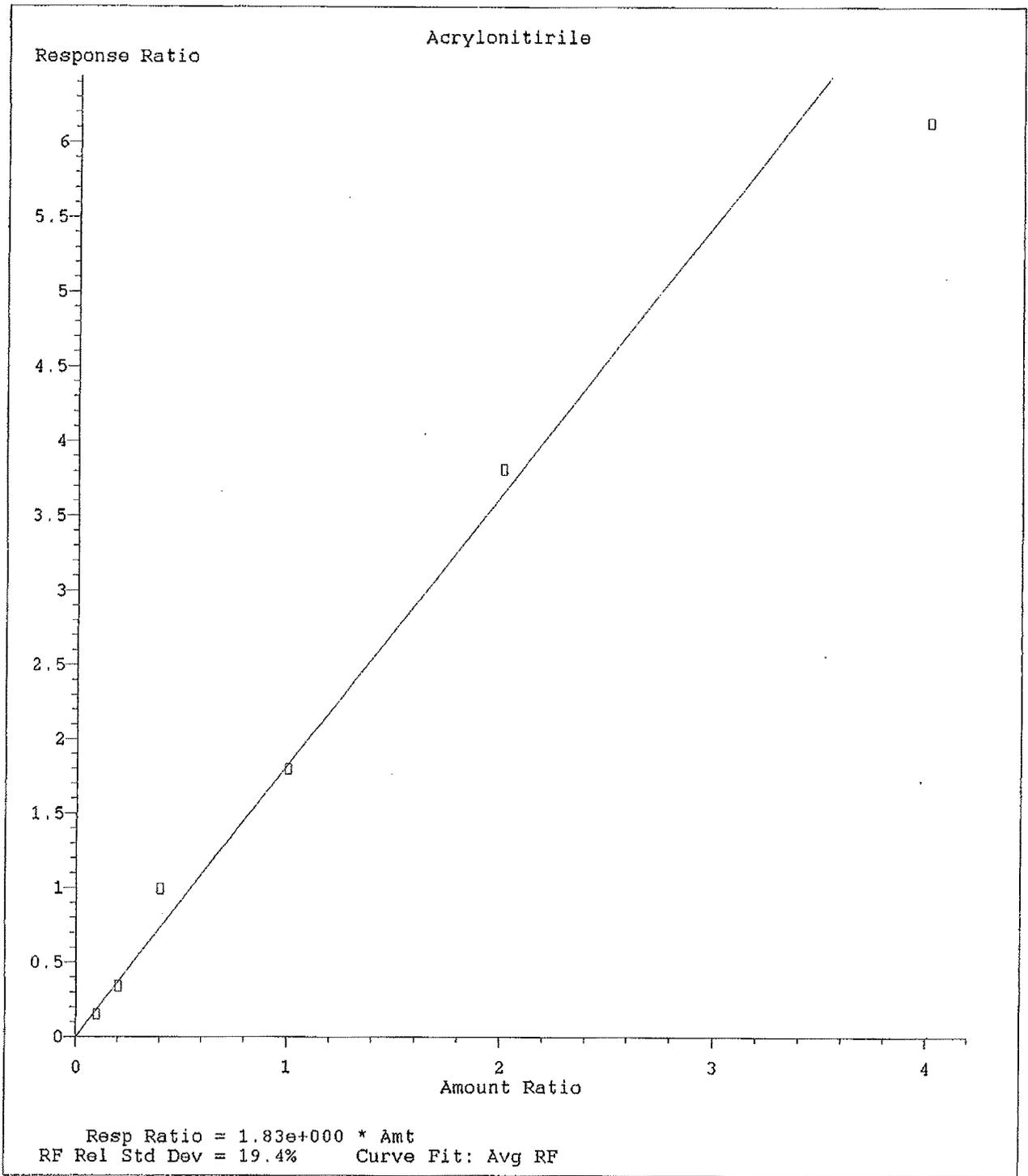


Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

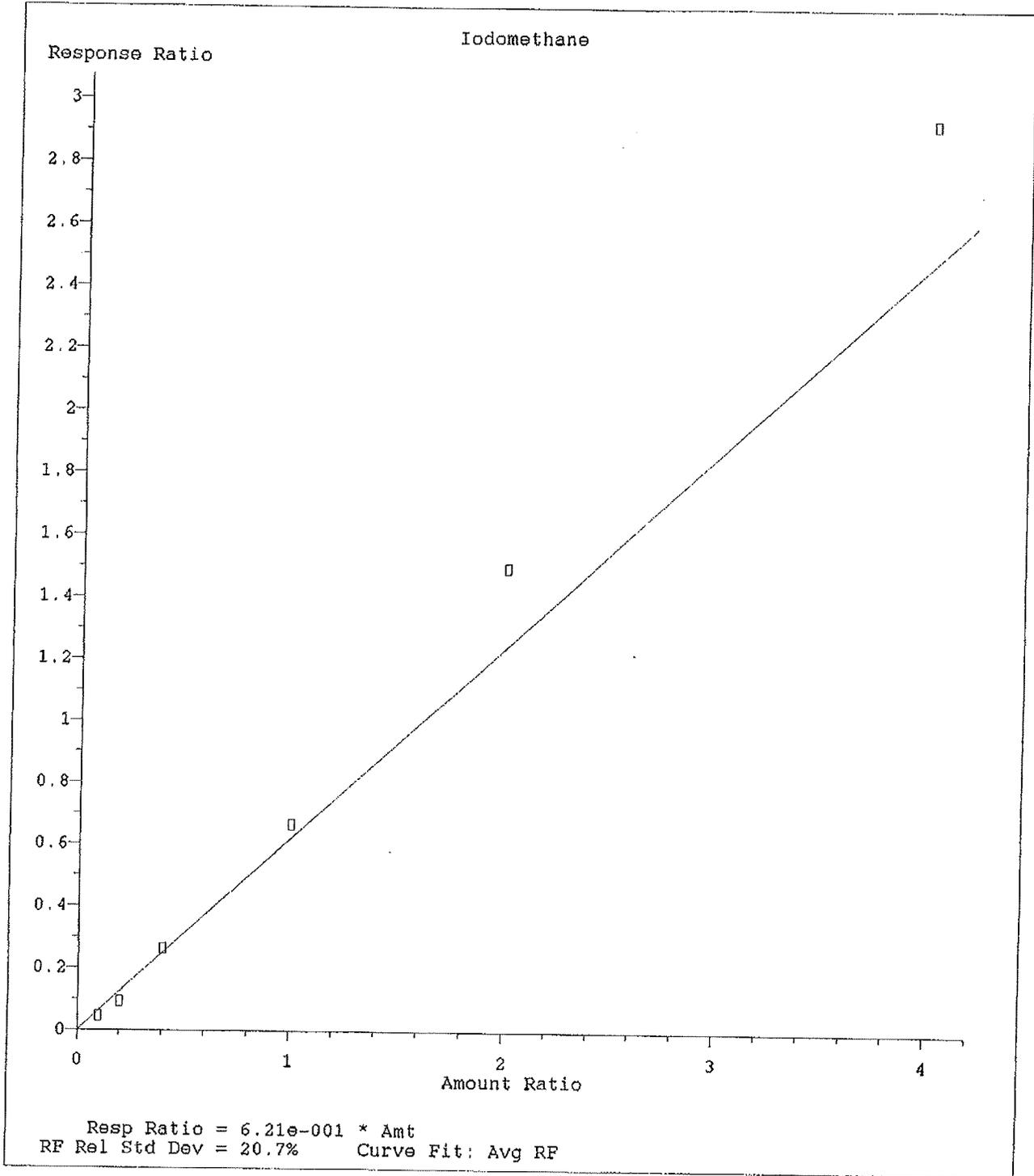


$\text{Resp Ratio} = 1.98\text{e-}001 * \text{Amt}$
 RF Rel Std Dev = 25.4% Curve Fit: Avg RF

Method Name: C:\NHCHEM\MSEXEN\013015RC.M
 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



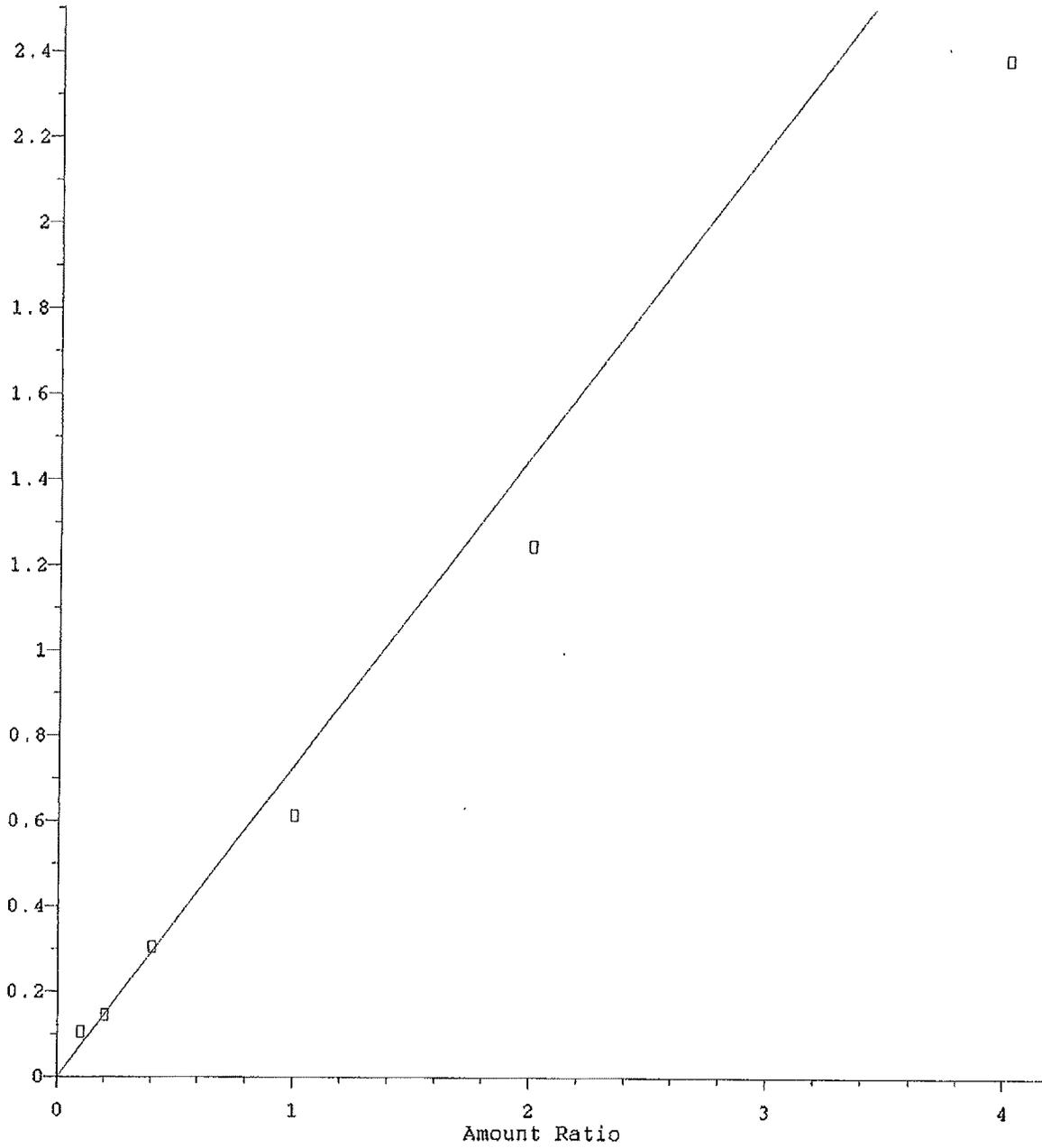
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

Methylene Chloride

Response Ratio

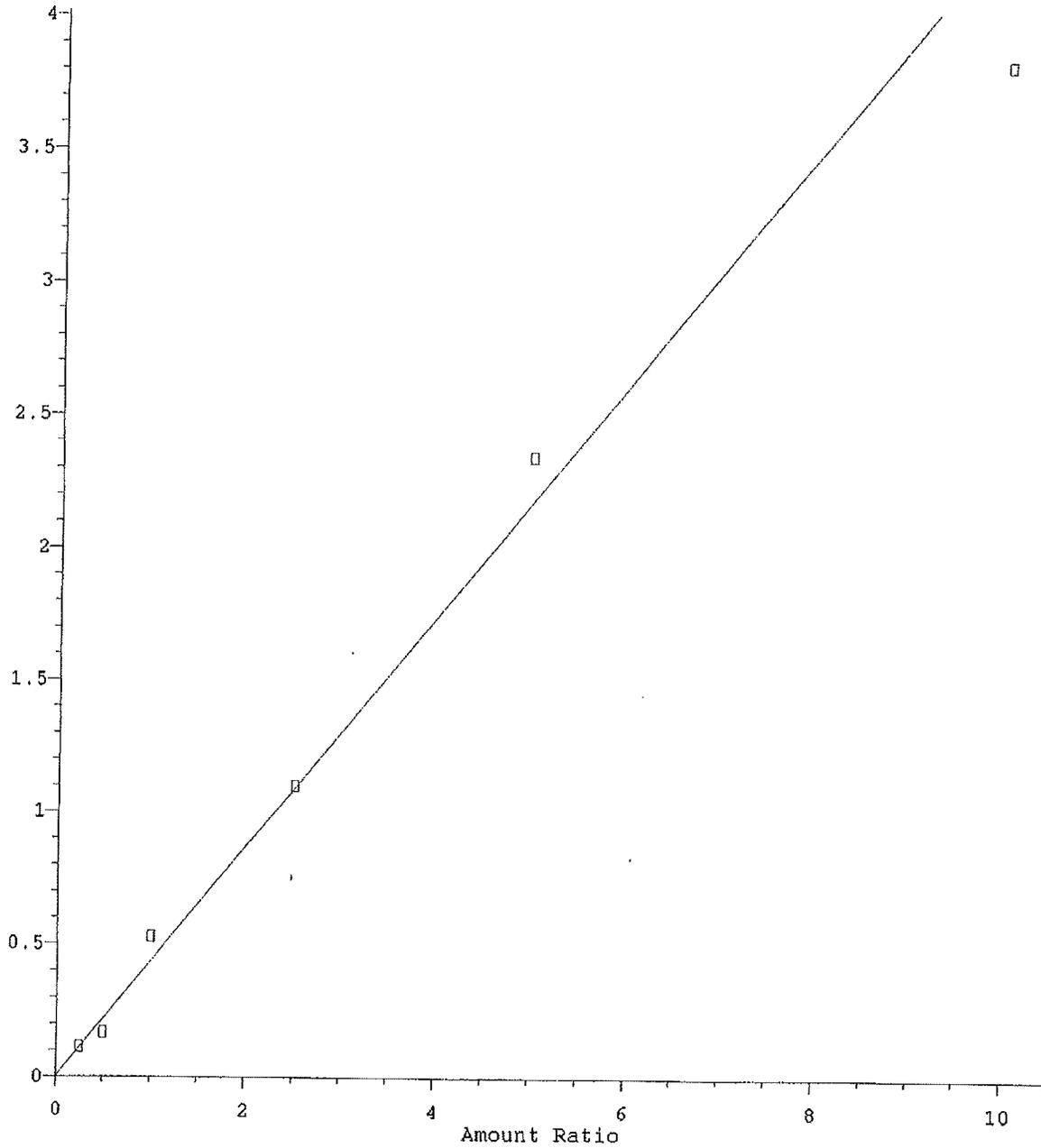


Resp Ratio = 7.31e-001 * Amt
RF Rel Std Dev = 24.3% Curve Fit: Avg RF

Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

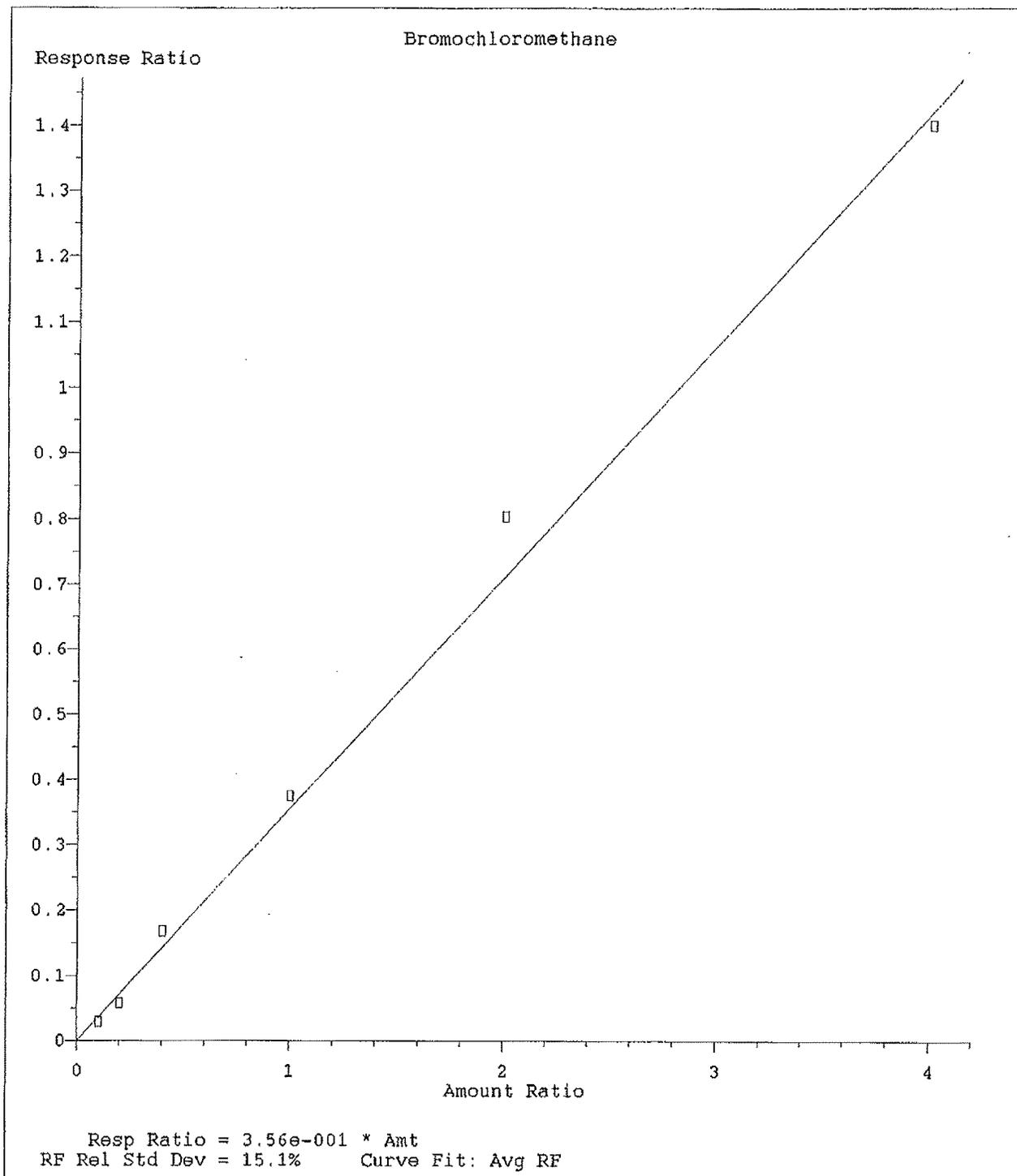
2-Butanone (MEK)

Response Ratio



Resp Ratio = 4.35e-001 * Amt
RF Rel Std Dev = 15.2% Curve Fit: Avg RF

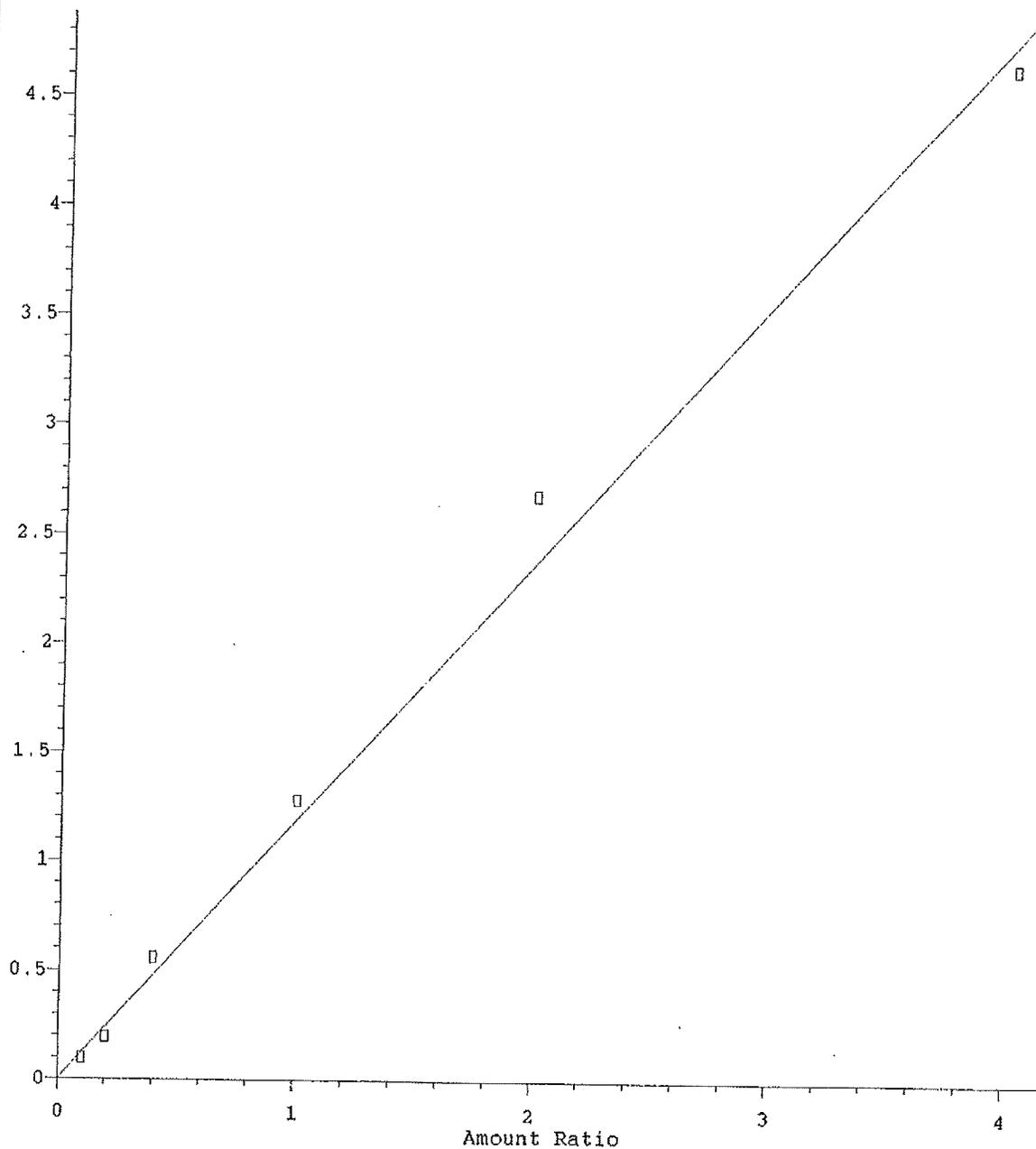
Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

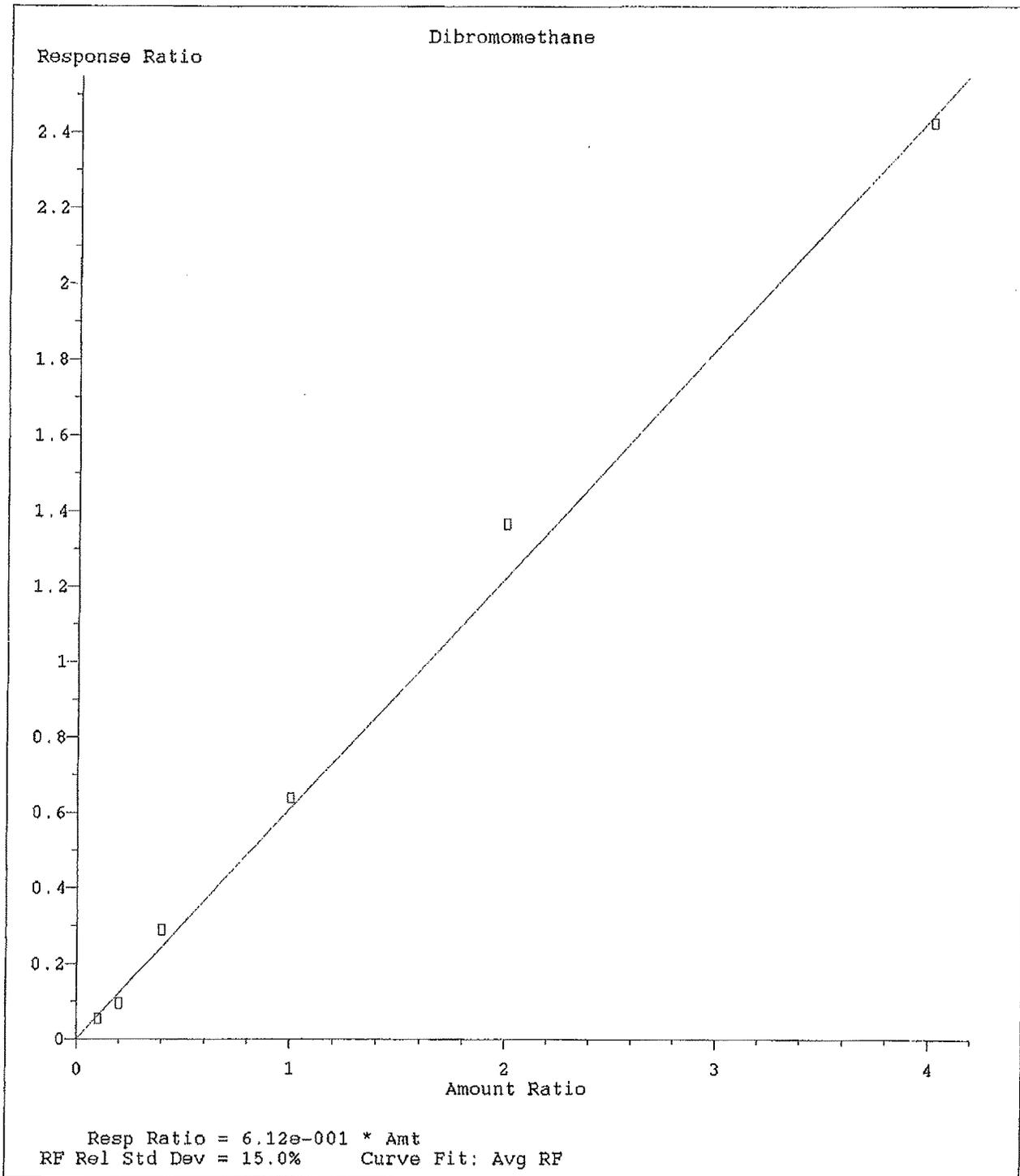
Carbon Tetrachloride

Response Ratio

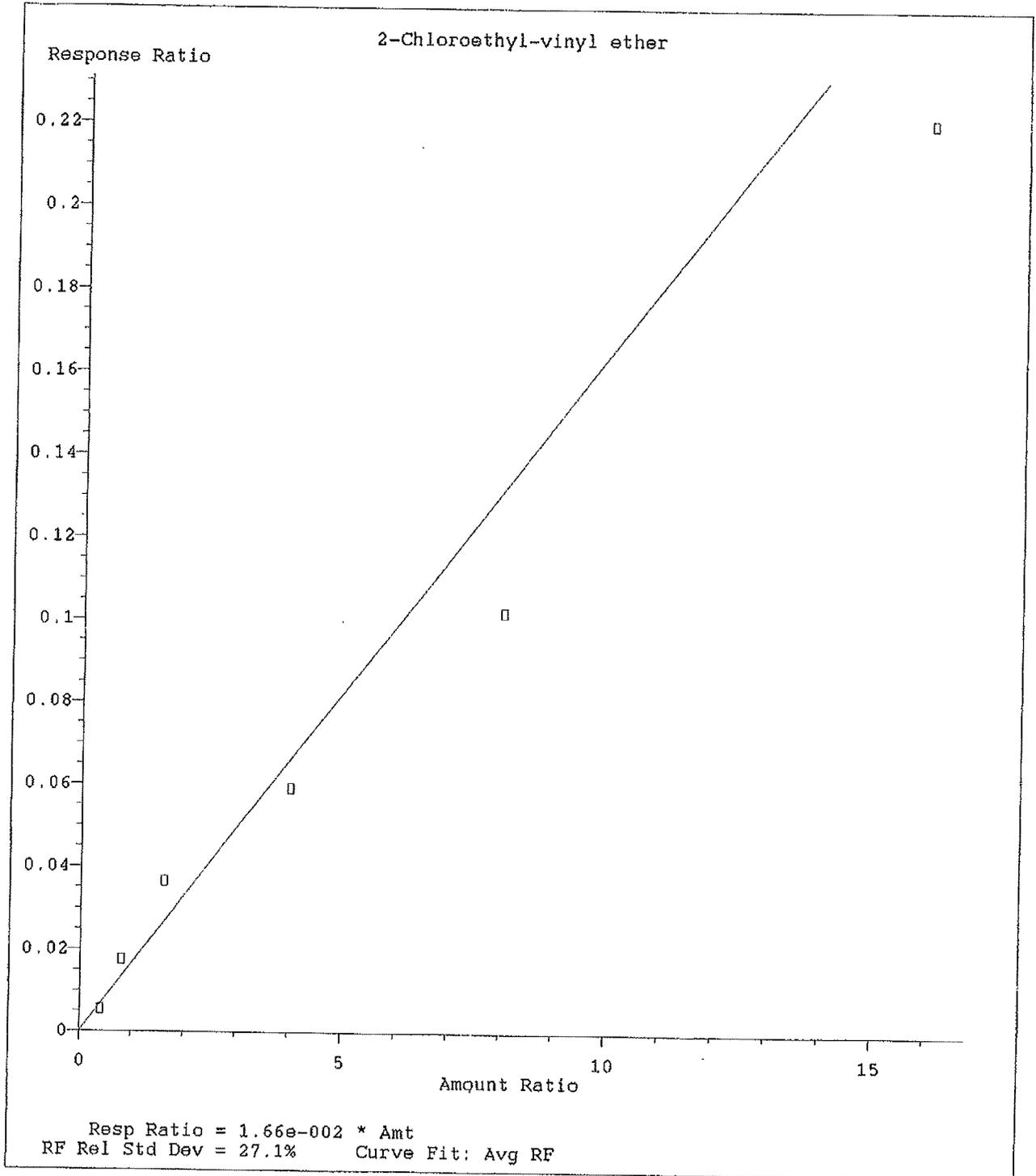


Resp Ratio = 1.19e+000 * Amt
RF Rel Std Dev = 15.2% Curve Fit: Avg RF

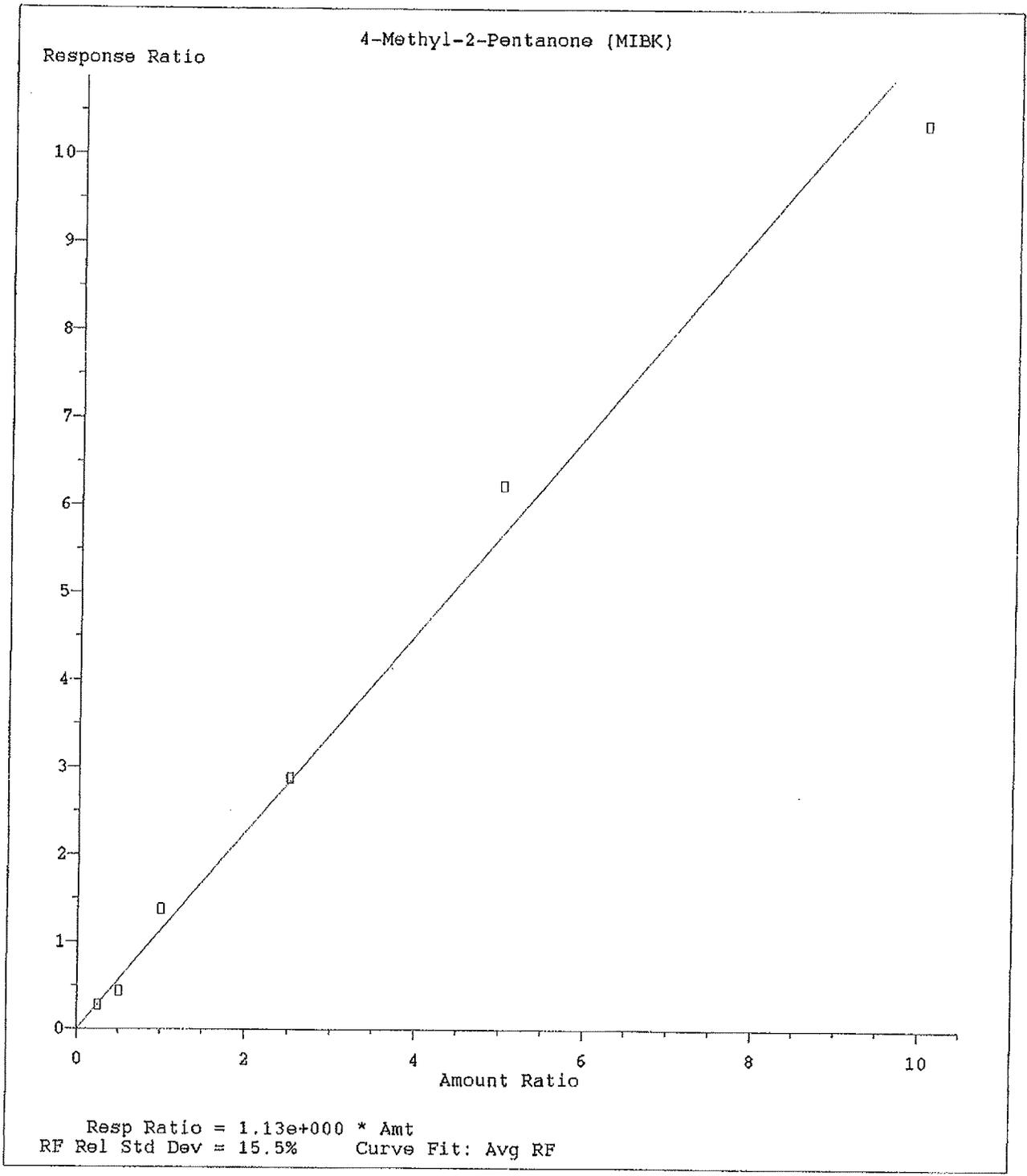
Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



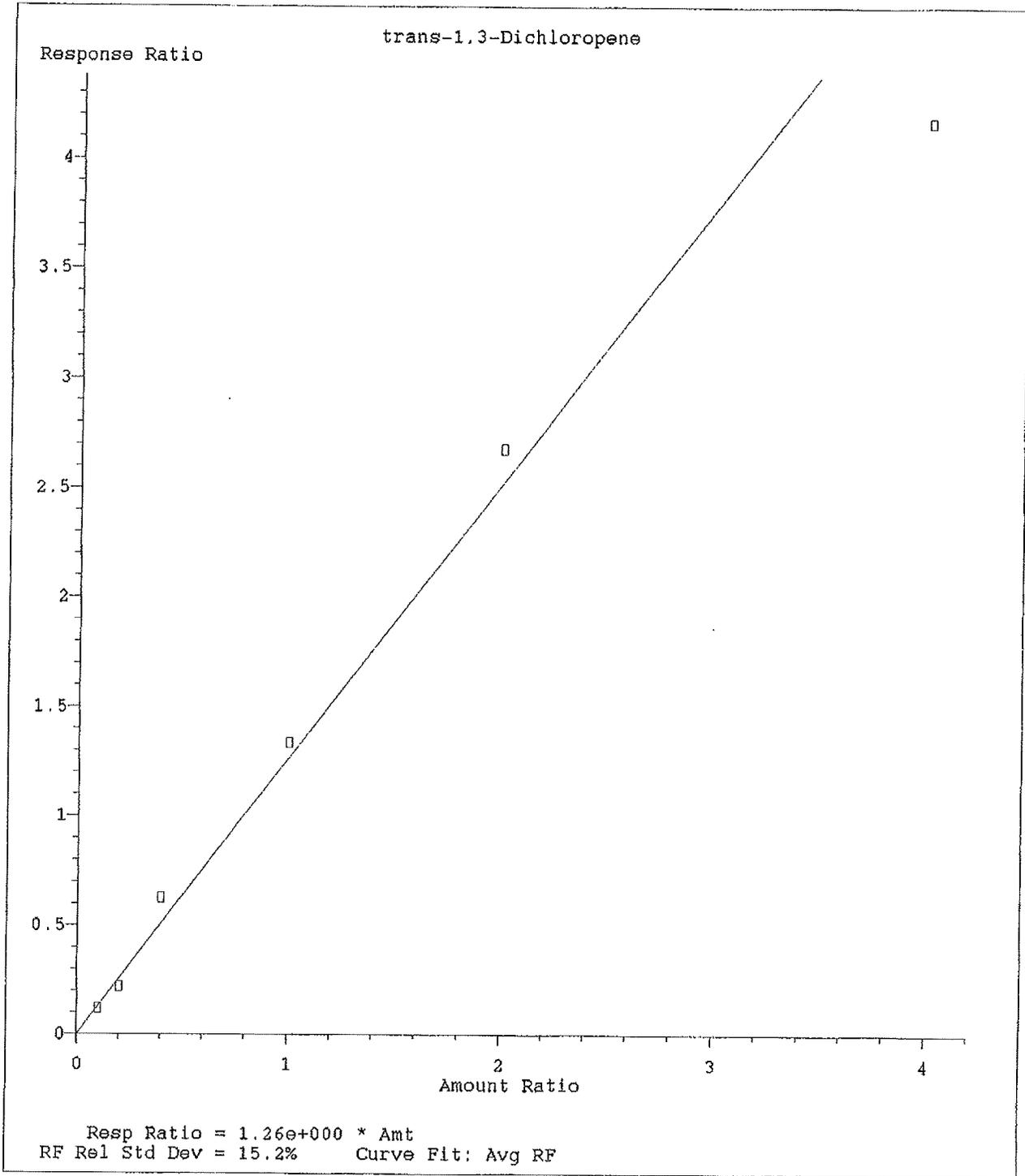
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



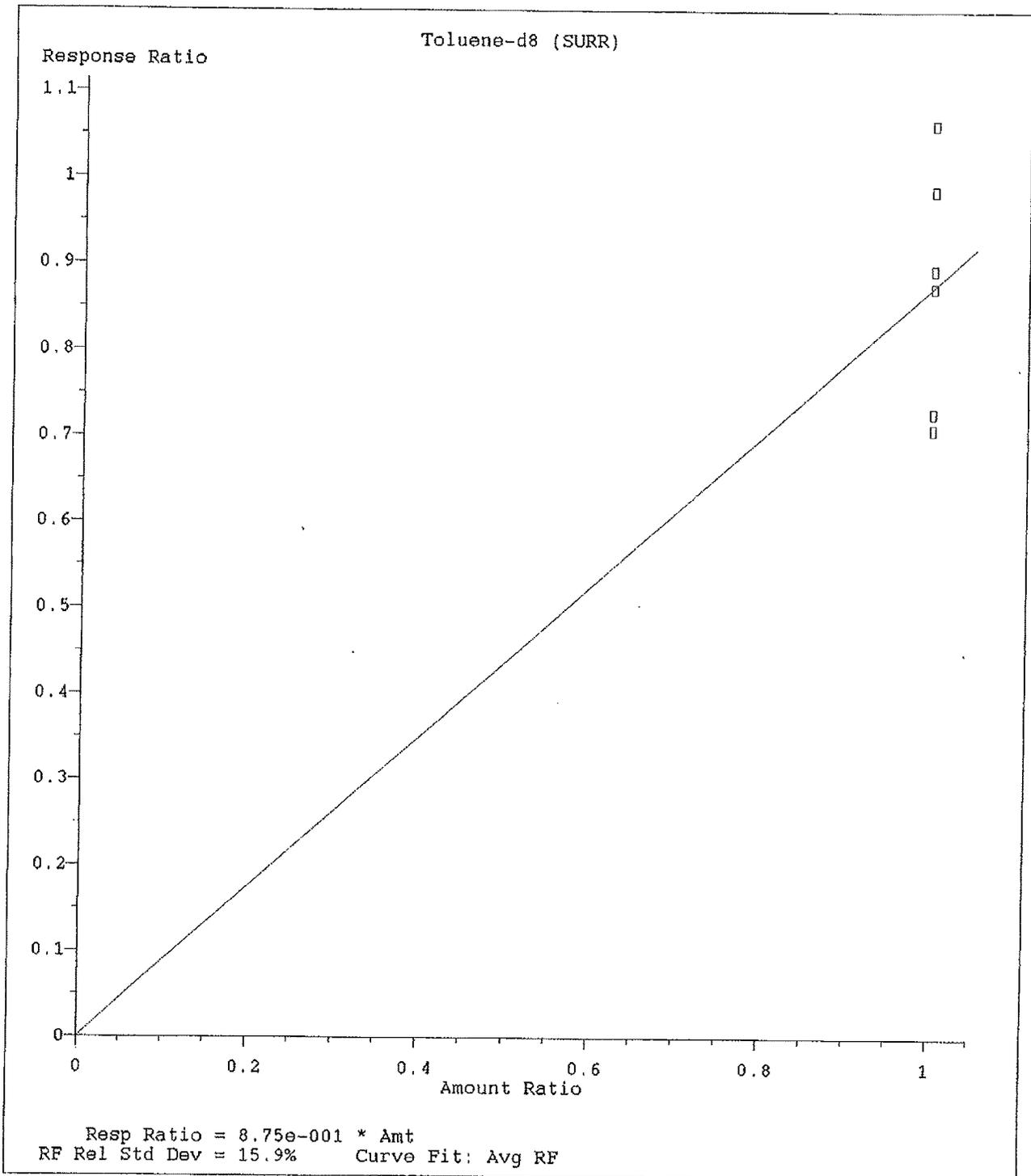
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



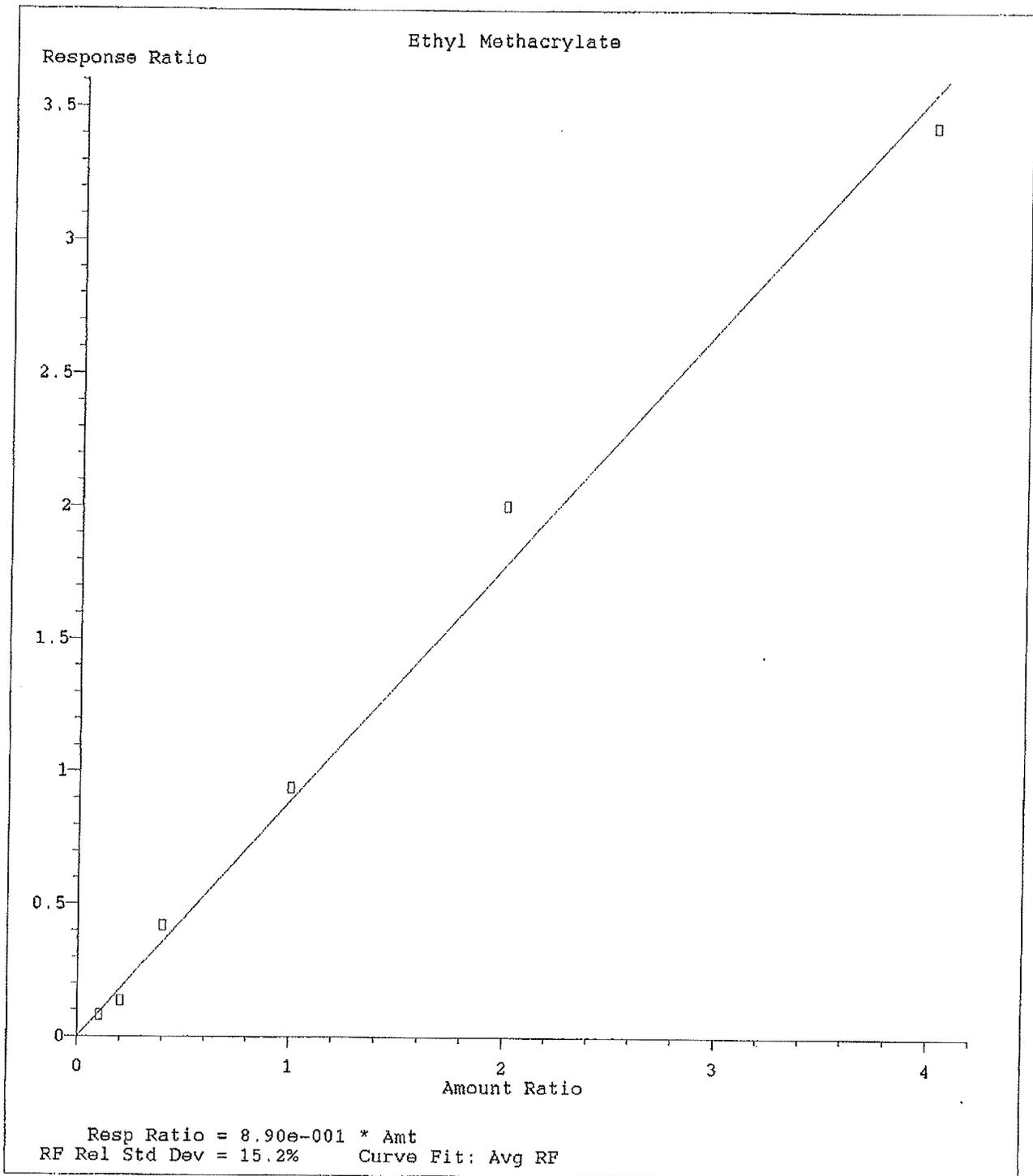
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



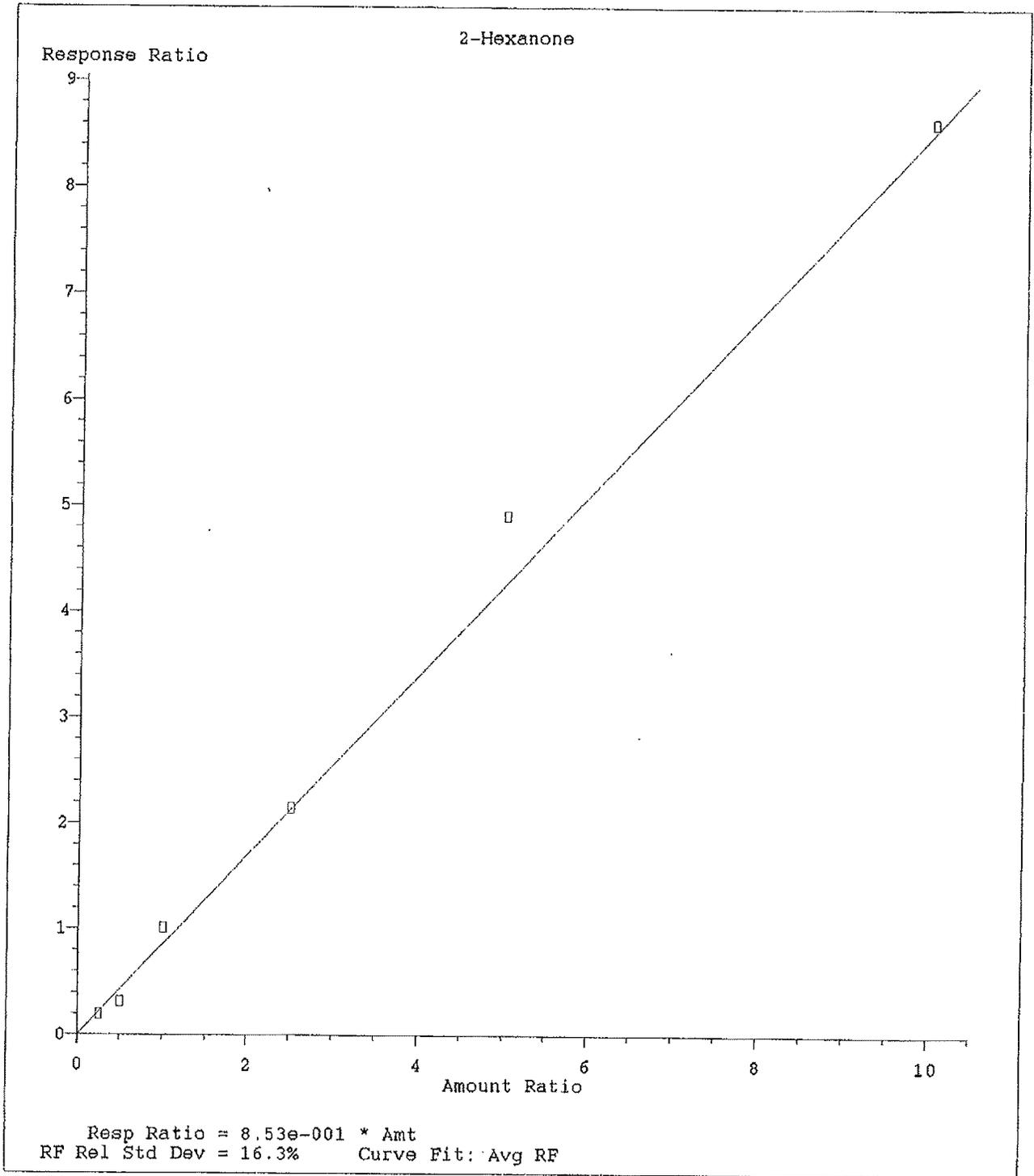
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



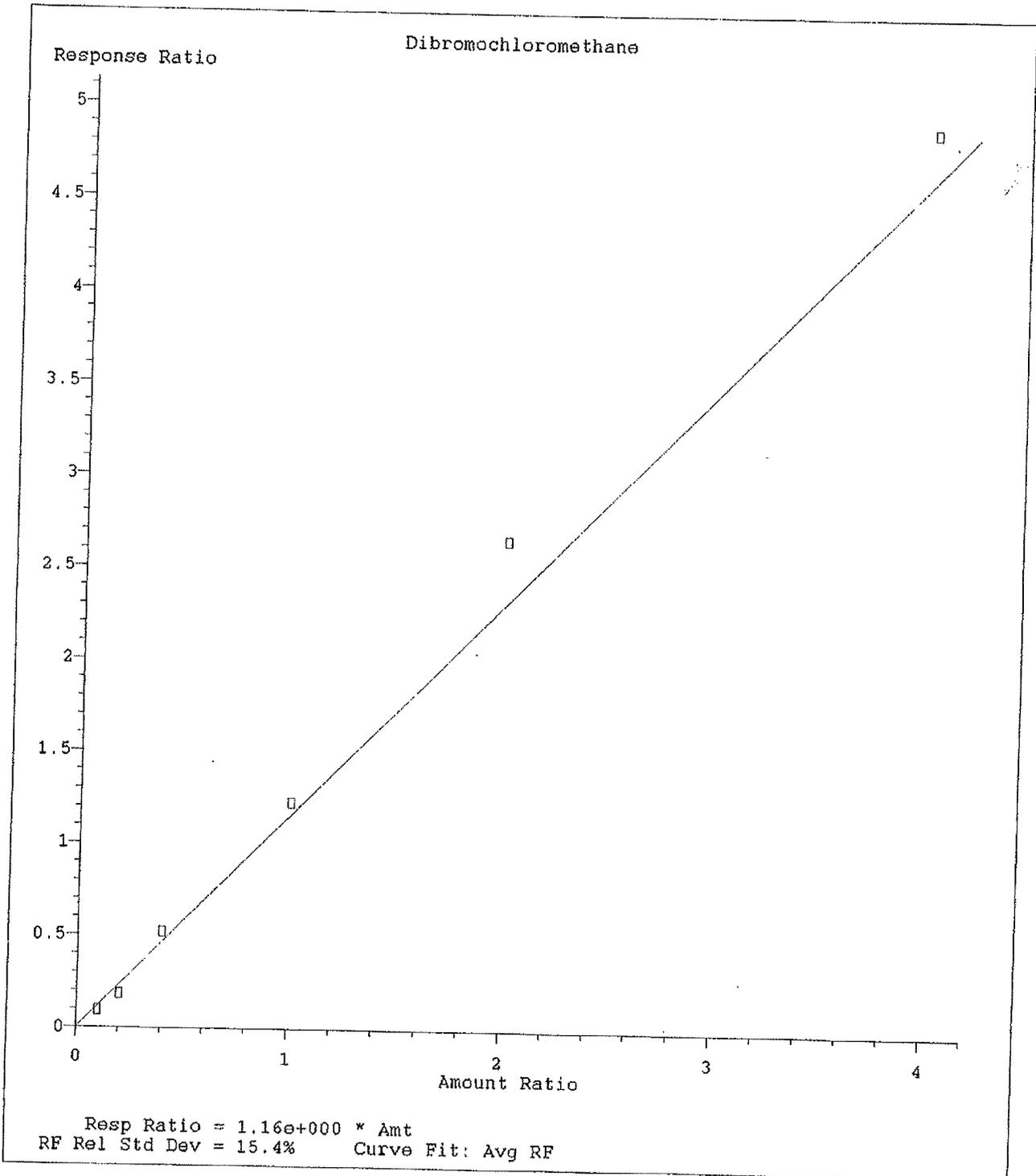
Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



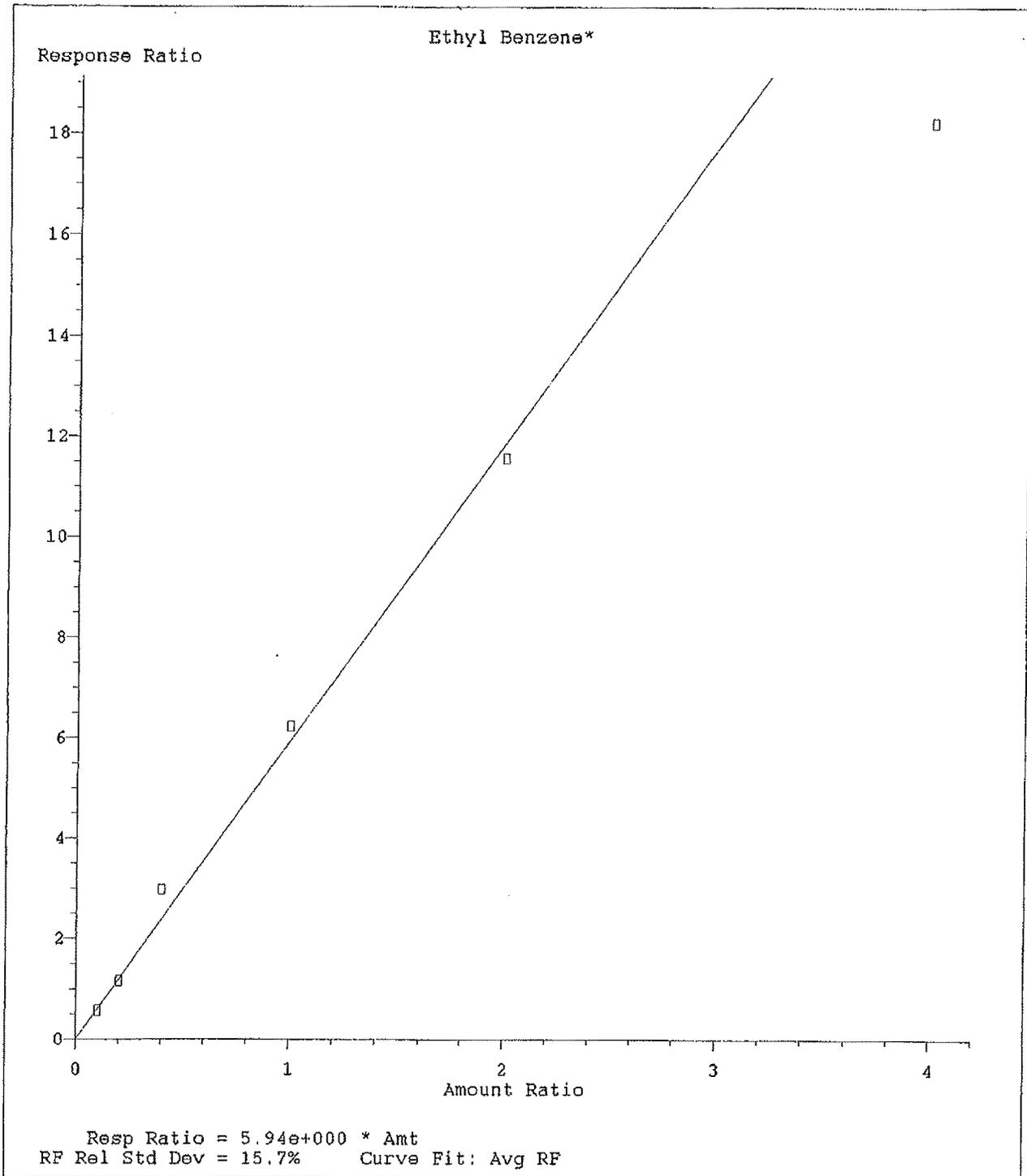
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



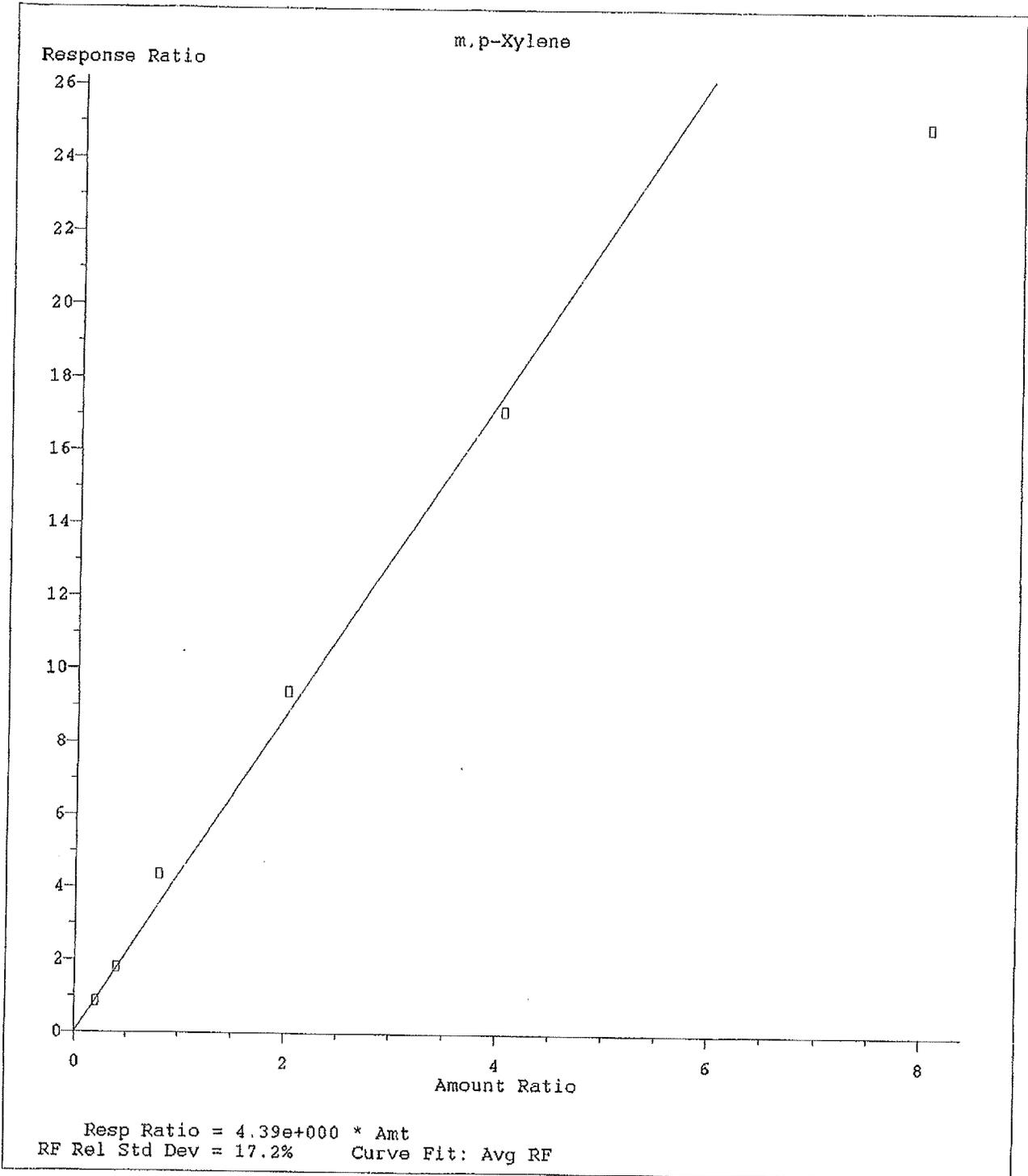
Method Name: C:\NHPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



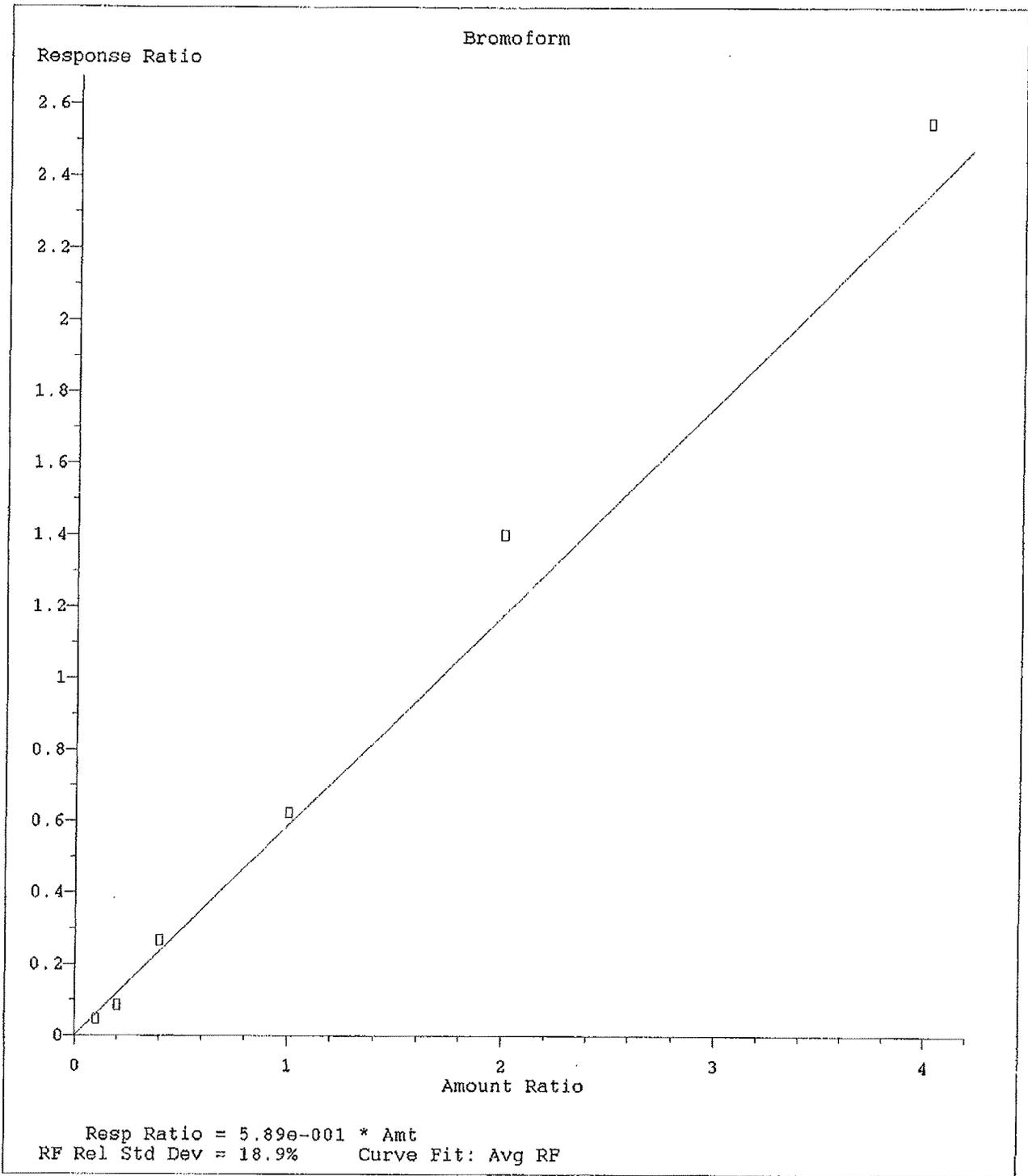
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



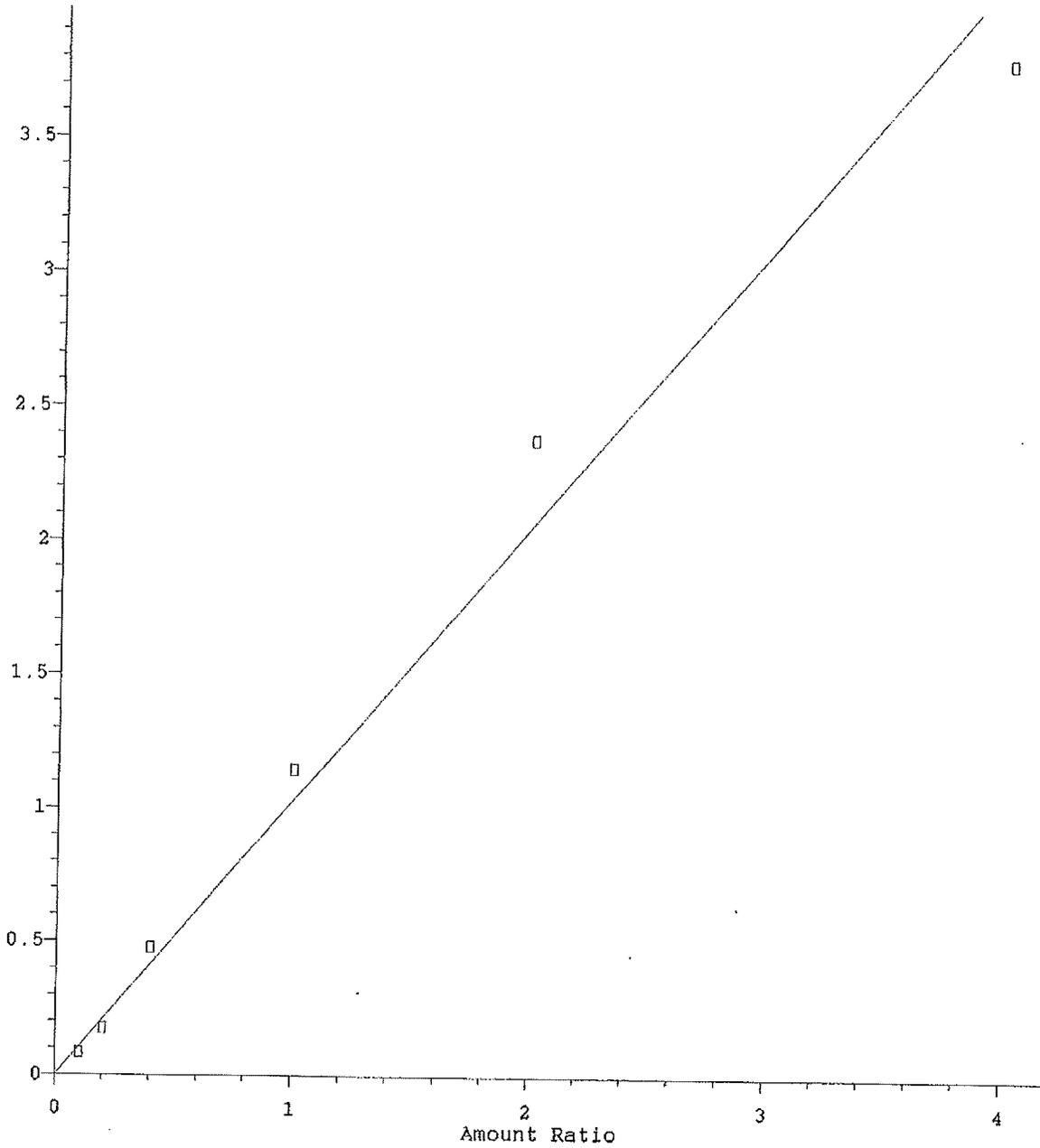
Method Name: C:\NHPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

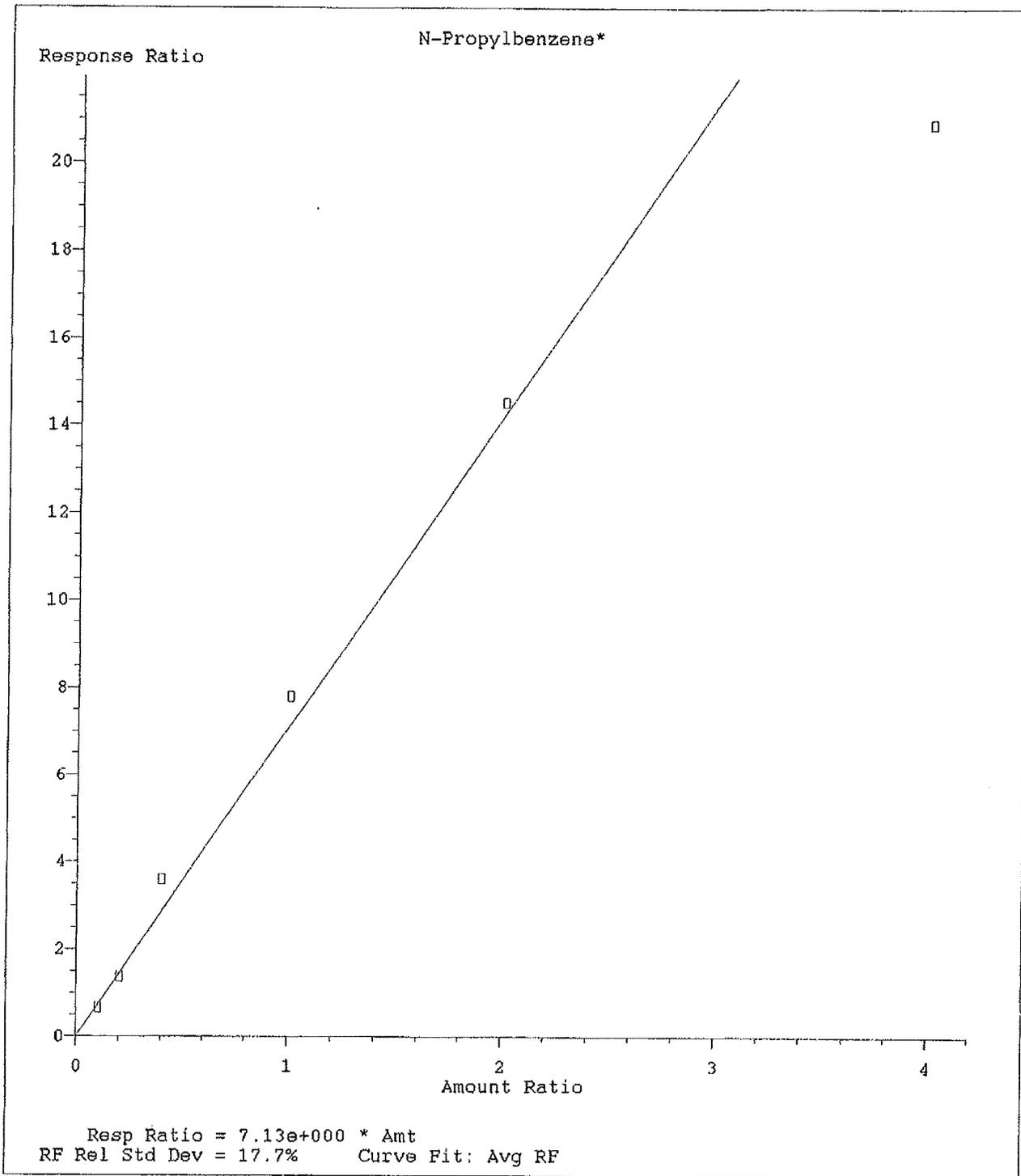
Bromobenzene

Response Ratio

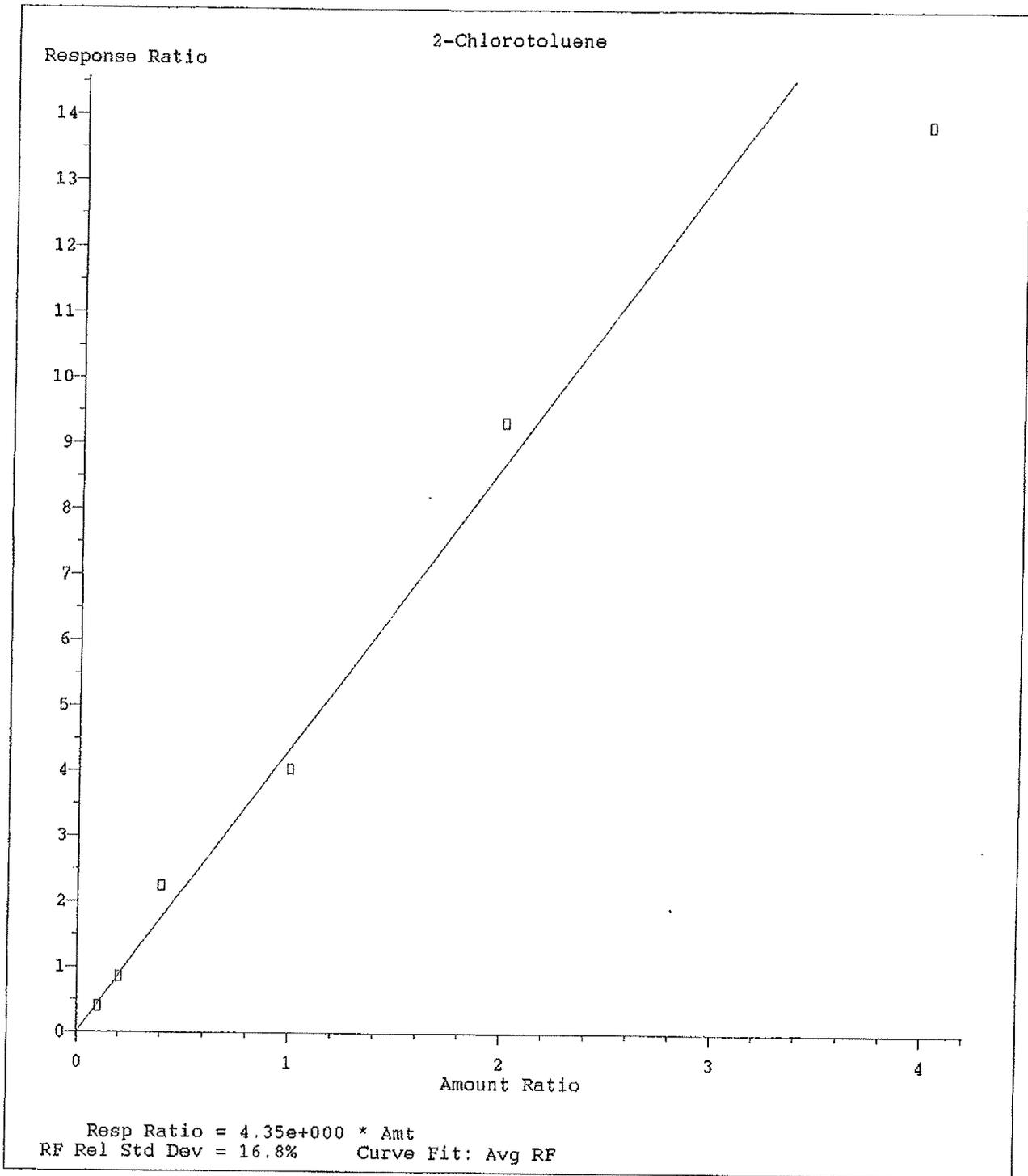


Resp Ratio = 1.03e+000 * Amt
RF Rel Std Dev = 15.7% Curve Fit: Avg RF

Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



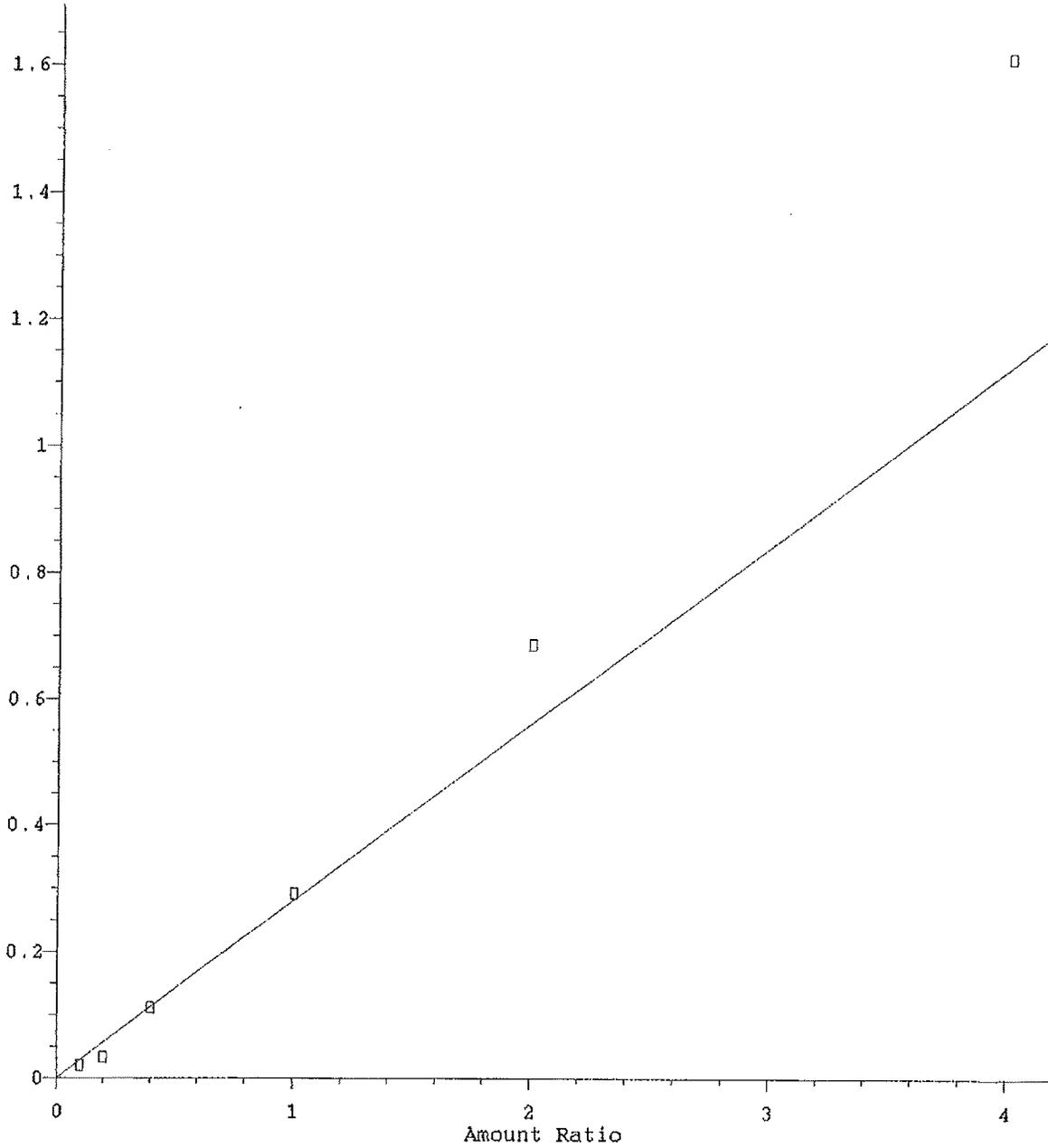
Method Name: C:\HPCHEM\MSEXEN\013015RC.M
 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

1,2-Dibromo-3-chloropropane

Response Ratio

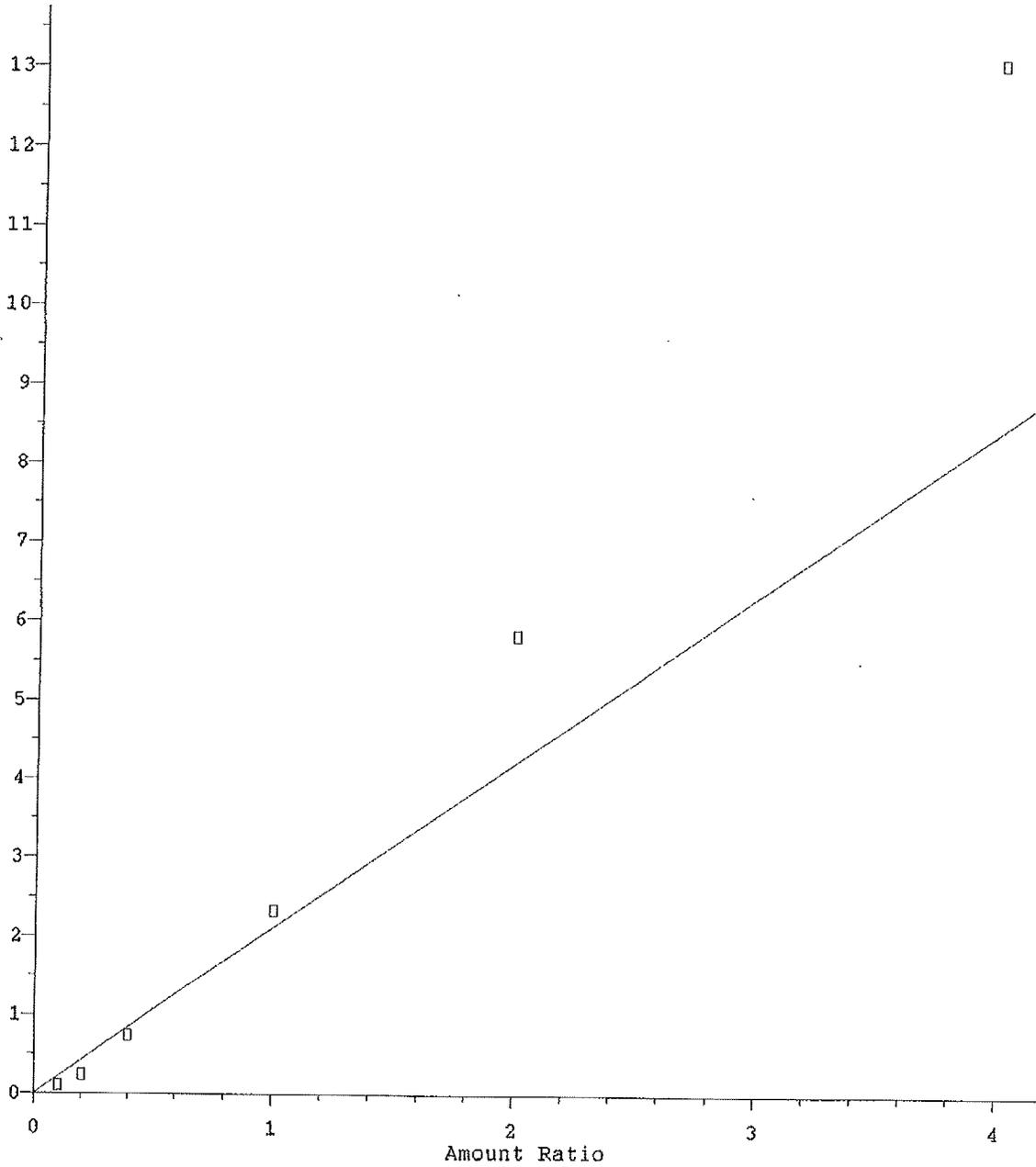


Resp Ratio = 2.81e-001 * Amt
RF Rel Std Dev = 31.3% Curve Fit: Avg RF

Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

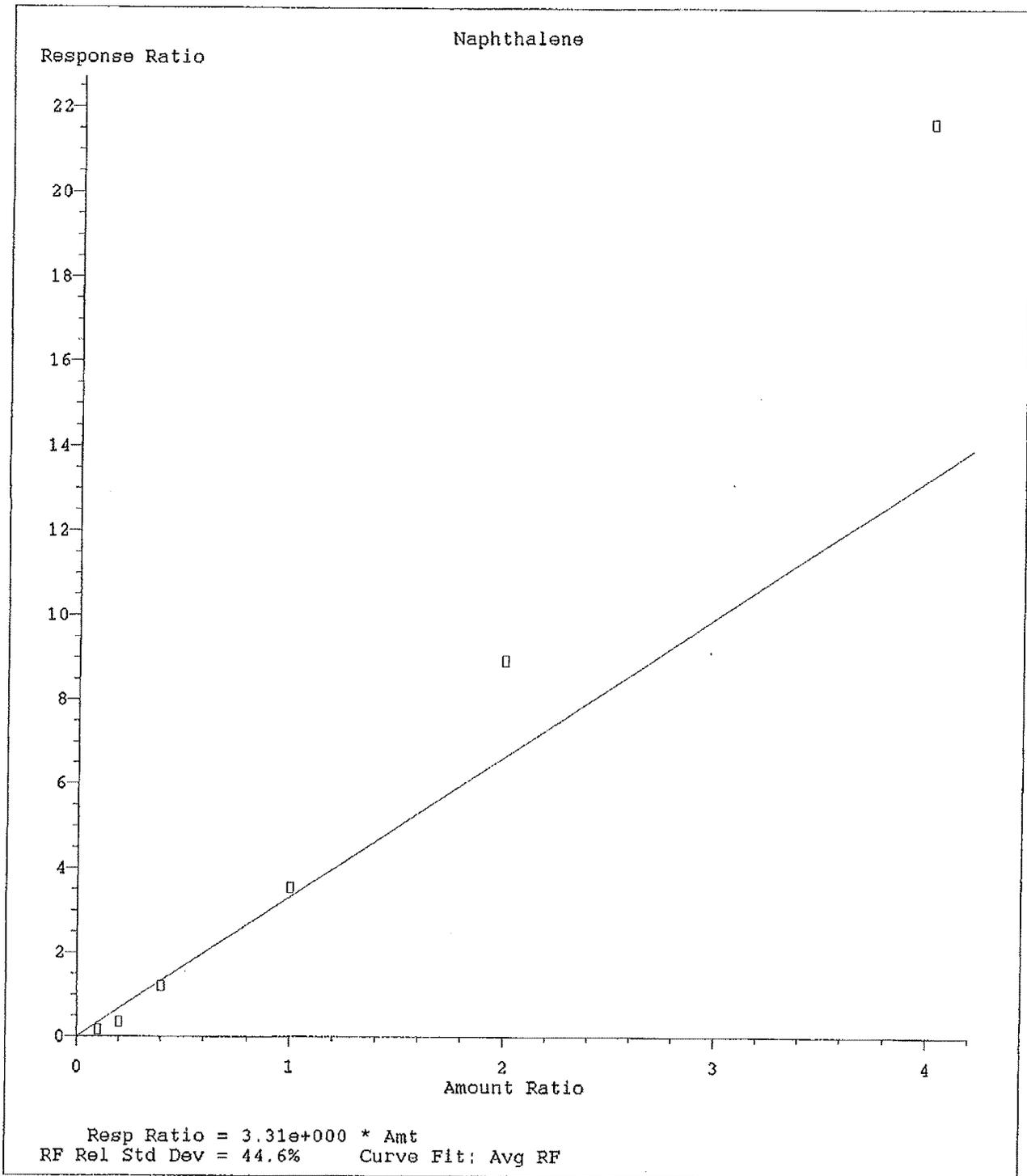
1,2,4-Trichlorobenzene

Response Ratio



Resp Ratio = 2.11e+000 * Amt
RF Rel Std Dev = 42.5% Curve Fit: Avg RF

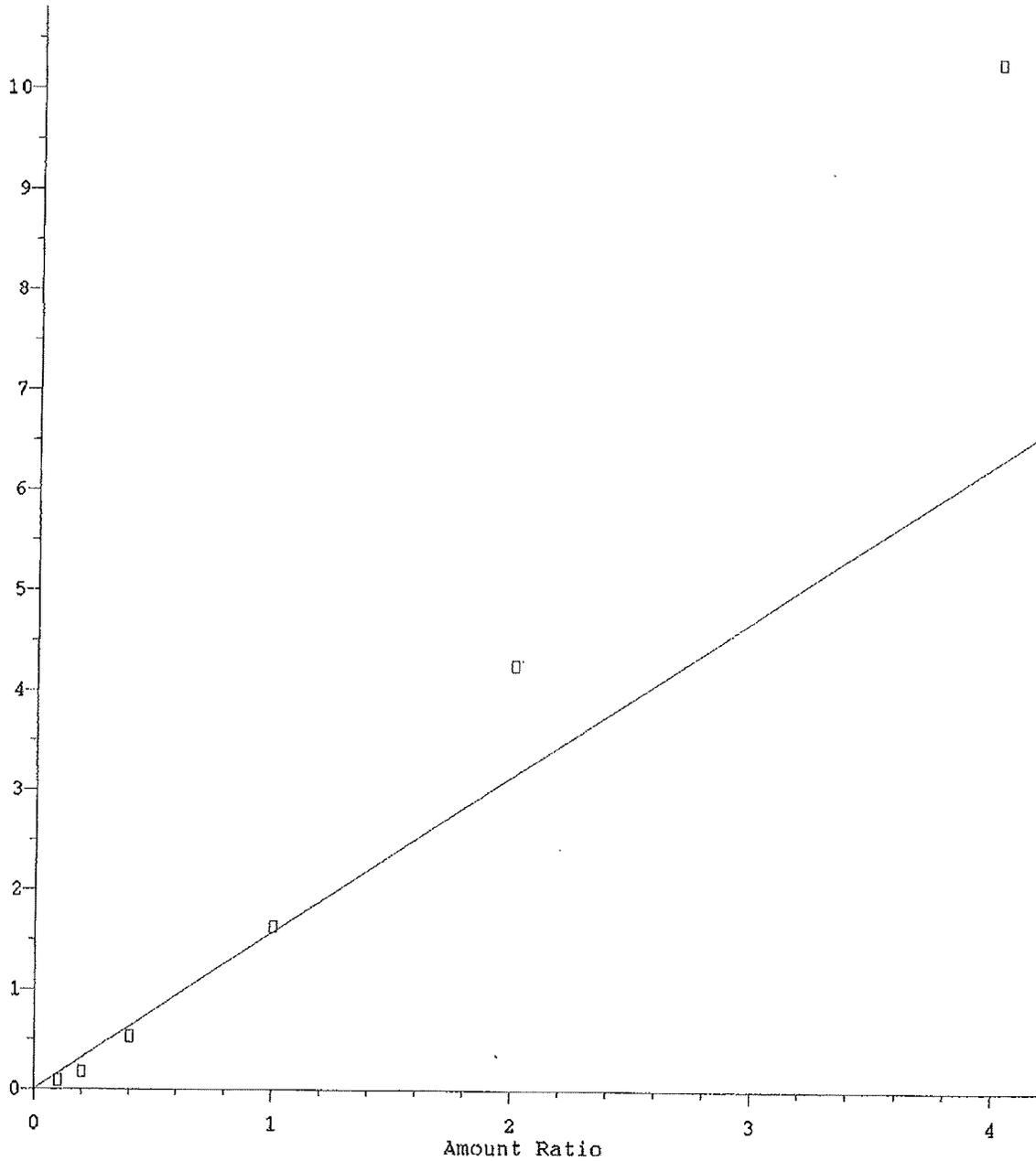
Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

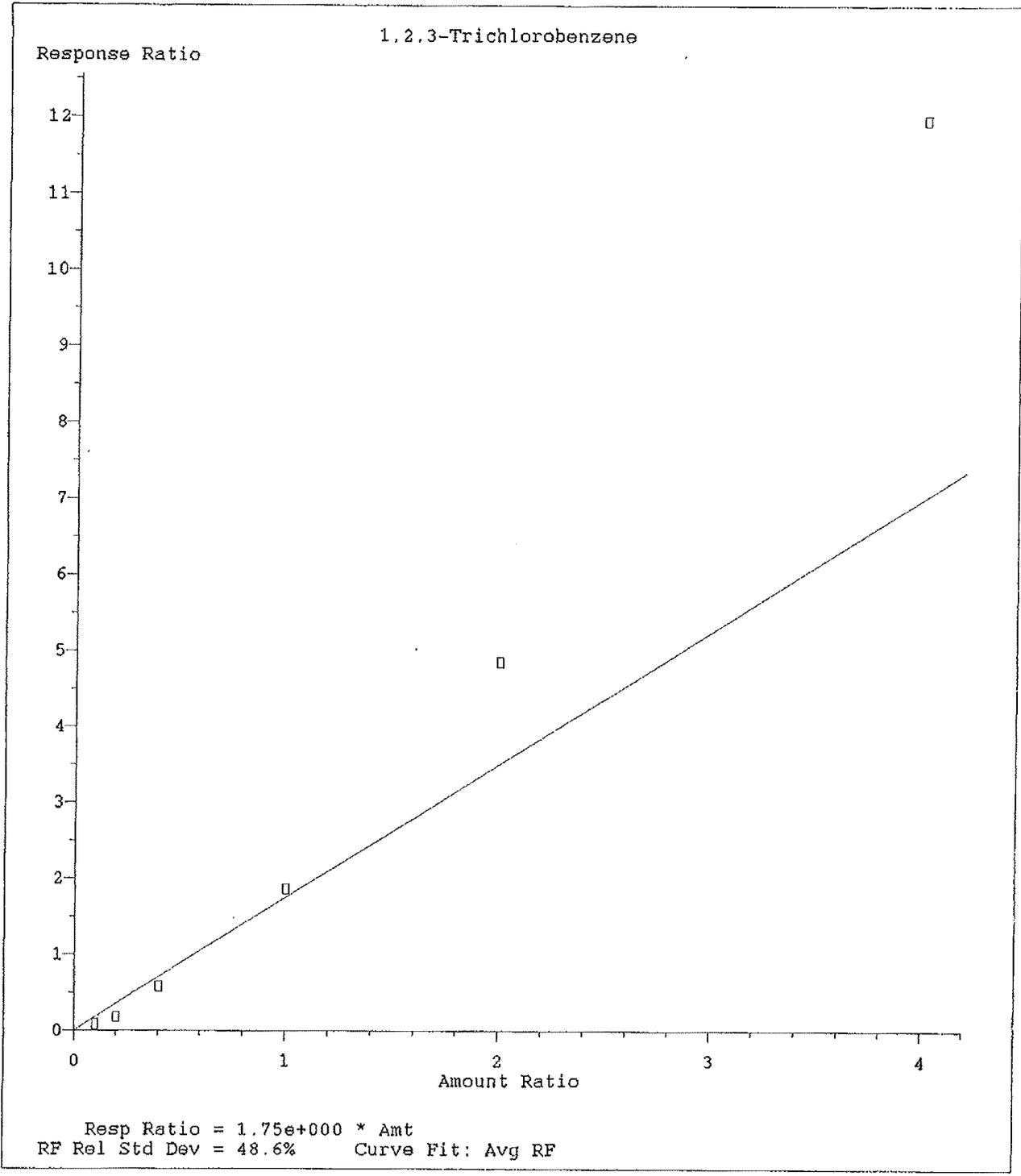
Hexachloro-1,3-butadiene

Response Ratio



Resp Ratio = 1.58e+000 * Amt
RF Rel Std Dev = 42.9% Curve Fit: Avg RF

Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D
 Acq On : 30 Jan 2015 6:11 pm
 Sample : 50ppb 8260 ical verification
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p

Vial: 11
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Fluorobenzene (IS)	1.000	1.000	0.0	102	0.00
2	Dichlorodifluoromethane	0.957	0.935	2.3	97	0.00
3	Chloromethane	0.997	1.006	-0.9	100	0.00
4 m	Vinyl Chloride*	0.812	0.837	-3.1	102	0.00
5	Bromomethane	0.333	0.328	1.5	102	0.00
6	Chloroethane	0.274	0.297	-8.4	106	0.00
7	Acrolein	0.635	0.654	-3.0	100	0.00
8	Trichlorofluoromethane	0.843	0.925	-9.7	104	0.00
9	Acetone	0.198	0.177	10.6	110	0.00
10 m	1,1-Dichloroethene*	1.116	1.141	-2.2	99	0.00
11	Acrylonitrile	1.826	1.717	6.0	97	0.00
12	Iodomethane	0.621	0.661	-6.4	101	0.00
13	Methylene Chloride	0.731	0.616	15.7	102	0.00
14	Carbon Disulfide	1.601	1.606	-0.3	97	0.00
15 m	trans-1,2-Dichloroethene*	0.523	0.545	-4.2	102	0.00
16 m	Methyl-tert-butyl ether* (M	1.409	1.481	-5.1	106	0.00
17 m	1,1-Dichloroethane*	1.923	1.880	2.2	97	0.00
18	Vinyl Acetate	0.652	0.659	-1.1	102	0.00
19	N-Hexane	1.265	1.325	-4.7	102	0.00
20	N-Butanol	0.836	0.839	-0.4	100	0.00
21	2-Butanone (MEK)	0.435	0.448	-3.0	103	0.00
22 m	cis-1,2-Dichloroethene*	1.536	1.530	0.4	98	0.00
23	Bromochloromethane	0.356	0.367	-3.1	99	0.00
24 m	Chloroform*	1.703	1.707	-0.2	98	0.00
25	2-2-Dichloropropane	1.448	1.456	-0.6	97	0.00
26 s	Dibromofluoromethane (SURR)	0.290	0.269	7.2	95	0.00
27 s	1,2-Dichloroethane-d4 (SURR)	0.351	0.361	-2.8	97	-0.04
28	1,2-Dichloroethane	1.253	1.231	1.8	96	0.00
29 m	1,1,1-Trichloroethane*	1.296	1.300	-0.3	96	0.00
30	1,1-Dichloropropene	1.269	1.314	-3.5	97	0.00
31	Carbon Tetrachloride	1.190	1.214	-2.0	96	0.00
32 m	Benzene*	3.471	3.414	1.6	95	0.00
33	Dibromomethane	0.612	0.618	-1.0	98	0.00
34	1,2-Dichloropropane	1.102	1.134	-2.9	99	0.00
35 m	Trichloroethene*	0.949	0.949	0.0	98	0.00
36	Bromodichloromethane	1.335	1.348	-1.0	97	0.01
37	2-Chloroethyl-vinyl ether	0.017	0.020	-17.6	136	0.01
38	cis-1,3-Dichloropropene	1.596	1.583	0.8	96	0.00
39	4-Methyl-2-Pentanone (MIBK)	1.134	1.182	-4.2	104	0.00
40	trans-1,3-Dichloropene	1.264	1.308	-3.5	100	0.00
41	1,1,2-Trichloroethane	0.680	0.693	-1.9	98	0.00
42 s	Toluene-d8 (SURR)	0.875	0.911	-4.1	94	0.00
43 m	Toluene*	3.672	3.657	0.4	98	0.00
44	Ethyl Methacrylate	0.890	0.916	-2.9	99	0.00
45	1,3-Dichloropropane	1.300	1.322	-1.7	99	0.00
46	2-Hexanone	0.853	0.889	-4.2	105	0.00
47	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	99	0.00
48	Dibromochloromethane	1.158	1.232	-6.4	99	0.00
49	1,2-Dibromoethane (EDB)	1.073	1.138	-6.1	103	0.00
50	Tetrachloroethene	1.111	1.165	-4.9	99	0.00
51 m	1,1,1,2-Tetrachloroethane*	0.952	1.013	-6.4	99	0.01
52 m	Chlorobenzene*	3.000	3.236	-7.9	98	0.00
53 m	Ethyl Benzene*	5.938	6.352	-7.0	101	0.00
54	m, p-Xylene	4.394	4.738	-7.8	99	0.00
55	Bromoform	0.589	0.657	-11.5	104	0.00
56	Styrene	3.323	3.589	-8.0	100	0.00
57	1,1,2,2-Tetrachloroethane	0.951	1.030	-8.3	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D Vial: 11
 Acq On : 30 Jan 2015 6:11 pm Operator: gjd
 Sample : 50ppb 8260 ical verification Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 m o-Xylene*	1.995	2.102	-5.4	98	0.00
59 trans-1,4-Dichloro-2-butene	0.449	0.476	-6.0	101	0.00
60 1,2,3-Trichloropropane	1.532	1.734	-13.2	104	0.00
61 Isopropylbenzene	5.134	5.444	-6.0	96	0.00
62 s 4-Bromofluorobenzene (SURR)	0.525	0.586	-11.6	97	0.00
63 Bromobenzene	1.031	1.147	-11.3	99	0.01
64 m N-Propylbenzene*	7.129	7.726	-8.4	98	0.00
65 2-Chlorotoluene	4.348	4.740	-9.0	116	0.00
66 4-Chlorotoluene	1.031	1.108	-7.5	99	0.00
67 1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	97	0.00
68 1,3,5-Trimethylbenzene	10.307	11.135	-8.0	97	0.00
69 tert-butylbenzene	9.922	11.223	-13.1	102	0.00
70 1,2,4-Trimethylbenzene	9.967	10.801	-8.4	97	0.00
71 sec-Butylbenzene	14.432	15.873	-10.0	95	0.00
72 1,3-Dichlorobenzene	4.617	5.070	-9.8	99	0.06
73 1,4-Dichlorobenzene	2.960	3.230	-9.1	100	-0.06
74 p-Isopropyltoluene	9.866	11.041	-11.9	100	0.00
75 1,2-Dichlorobenzene	4.370	4.818	-10.3	100	0.00
76 N-Butylbenzene	12.992	14.490	-11.5	96	0.01
77 1,2-Dibromo-3-chloropropane	0.281	0.312	-11.0	104	0.00
78 1,2,4-Trichlorobenzene	2.108	2.256	-7.0	94	0.00
79 Naphthalene	3.314	3.647	-10.0	100	0.00
80 Hexachloro-1,3-butadiene	1.576	1.599	-1.5	95	0.00
81 1,2,3-Trichlorobenzene	1.750	1.845	-5.4	96	0.00
82 1-Methylnaphthalene	0.745	0.934	-25.4	120	-0.06
83 2-Methylnaphthalene	0.975	1.271	-30.4	133	0.01

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D
 Acq On : 30 Jan 2015 6:11 pm
 Sample : 50ppb 8260 ical verification
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 5 23:33 2015

Vial: 11
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:37:41 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.55	96	519029m	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.44	117	337204m	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.23	152	125389m	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.14	113	139878	46.54	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	93.08%
27) 1,2-Dichloroethane-d4 (SUR)	3.41	65	187579	51.45	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.90%
42) Toluene-d8 (SURR)	4.42	98	472770	52.03	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	104.06%
62) 4-Bromofluorobenzene (SURR)	6.33	95	197573	55.81	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	111.62%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.43	85	485446	48.87	ppb	100
3) Chloromethane	1.55	50	522226	50.48	ppb	# 95
4) Vinyl Chloride*	1.58	62	434611	51.59	ppb	100
5) Bromomethane	1.74	94	170359	48.62	ppb	# 98
6) Chloroethane	1.80	64	154189	54.22	ppb	97
7) Acrolein	2.43	56	339298	51.50	ppb	99
8) Trichlorofluoromethane	1.86	101	480068	54.87	ppb	100
9) Acetone	2.36	43	229112	111.29	ppb	# 97
10) 1,1-Dichloroethene*	2.09	61	592218	51.14	ppb	99
11) Acrylonitrile	2.67	53	891099	47.02	ppb	100
12) Iodomethane	2.17	142	343019	53.25	ppb	100
13) Methylene Chloride	2.34	84	319464	42.13	ppb	99
14) Carbon Disulfide	2.12	76	833640	50.17	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	282719	52.10	ppb	99
16) Methyl-tert-butyl ether* (	2.44	73	768504	52.54	ppb	96
17) 1,1-Dichloroethane*	2.69	63	975557	48.86	ppb	100
18) Vinyl Acetate	2.77	43	341918	50.50	ppb	# 100
19) N-Hexane	2.44	57	687837	52.37	ppb	99
20) N-Butanol	2.76	57	435237	50.18	ppb	# 99
21) 2-Butanone (MEK)	3.19	43	581399	128.63	ppb	99
22) cis-1,2-Dichloroethene*	2.93	61	794340	49.83	ppb	97
23) Bromochloromethane	3.03	128	190330	51.56	ppb	99
24) Chloroform*	3.05	83	886015	50.10	ppb	100
25) 2-2-Dichloropropane	2.98	77	755745	50.29	ppb	99
28) 1,2-Dichloroethane	3.44	62	639043	49.13	ppb	99
29) 1,1,1-Trichloroethane*	3.16	97	674697	50.17	ppb	99
30) 1,1-Dichloropropene	3.22	75	682032	51.76	ppb	100
31) Carbon Tetrachloride	3.13	117	630029	51.01	ppb	100
32) Benzene*	3.34	78	1771837	49.18	ppb	100
33) Dibromomethane	3.87	93	320954	50.55	ppb	99
34) 1,2-Dichloropropane	3.92	63	588362	51.42	ppb	100
35) Trichloroethene*	3.63	95	492302	49.98	ppb	100
36) Bromodichloromethane	3.94	83	699569	50.50	ppb	100
37) 2-Chloroethyl-vinyl ether	4.25	63	41092	238.35	ppb	98
38) cis-1,3-Dichloropropene	4.31	75	821459	49.60	ppb	99
39) 4-Methyl-2-Pentanone (MIBK)	4.67	43	1534263	130.38	ppb	100
40) trans-1,3-Dichloropropene	4.70	75	678708	51.74	ppb	100
41) 1,1,2-Trichloroethane	4.81	83	359830	50.96	ppb	99
43) Toluene*	4.45	91	1897883	49.79	ppb	100
44) Ethyl Methacrylate	4.77	69	475424	51.43	ppb	97
45) 1,3-Dichloropropane	4.99	76	686023	50.83	ppb	100
46) 2-Hexanone	5.21	43	1153684	130.27	ppb	99
48) Dibromochloromethane	4.93	129	415553	53.23	ppb	99
49) 1,2-Dibromoethane (EDB)	5.11	107	383738	53.05	ppb	100

(#) = qualifier out of range (m) = manual integration
 1101011.D 013015RC.M Thu Feb 05 23:33:51 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D Vial: 11
 Acq On : 30 Jan 2015 6:11 pm Operator: gjd
 Sample : 50ppb 8260 ical verification Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 5 23:33 2015

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:37:41 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.70	166	392918	52.42	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.49	131	341429	53.20	ppb	99
52) Chlorobenzene*	5.46	112	1091051	53.92	ppb	100
53) Ethyl Benzene*	5.46	91	2141796	53.48	ppb	100
54) m,p-Xylene	5.56	91	3195433	107.82	ppb	100
55) Bromoform	5.95	173	221558	55.81	ppb	99
56) Styrene	5.91	104	1210233	54.00	ppb	100
57) 1,1,2,2-Tetrachloroethane	6.48	85	347170	54.14	ppb	100
58) o-Xylene*	5.88	106	708839	52.69	ppb	99
59) trans-1,4-Dichloro-2-buten	6.62	53	160402	53.02	ppb	99
60) 1,2,3-Trichloropropane	6.60	75	584862	56.61	ppb	100
61) Isopropylbenzene	6.11	105	1835800	53.03	ppb	100
63) Bromobenzene	6.42	156	386676	55.60	ppb	100
64) N-Propylbenzene*	6.42	91	2605332	54.19	ppb	100
65) 2-Chlorotoluene	6.56	91	1598359	54.51	ppb	97
66) 4-Chlorotoluene	6.69	126	373502	53.69	ppb	99
68) 1,3,5-Trimethylbenzene	6.58	105	1396233	54.02	ppb	99
69) tert-butylbenzene	6.83	119	1407212	56.56	ppb	99
70) 1,2,4-Trimethylbenzene	6.89	105	1354298	54.18	ppb	100
71) sec-Butylbenzene	6.98	105	1990264	54.99	ppb	100
72) 1,3-Dichlorobenzene	7.24	146	635705	54.91	ppb	99
73) 1,4-Dichlorobenzene	7.24	148	405011	54.56	ppb	99
74) p-Isopropyltoluene	7.09	119	1384468	55.95	ppb	100
75) 1,2-Dichlorobenzene	7.60	146	604081	55.13	ppb	99
76) N-Butylbenzene	7.45	91	1816947	55.77	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.28	155	39184	55.62	ppb	96
78) 1,2,4-Trichlorobenzene	8.88	180	282903	53.50	ppb	100
79) Naphthalene	9.17	128	457276	55.03	ppb	100
80) Hexachloro-1,3-butadiene	8.85	225	200559	50.75	ppb	99
81) 1,2,3-Trichlorobenzene	9.34	180	231301	52.71	ppb	99
82) 1-Methylnaphthalene	10.28	142	117169	62.73	ppb	99
83) 2-Methylnaphthalene	10.13	142	159412	65.21	ppb	97

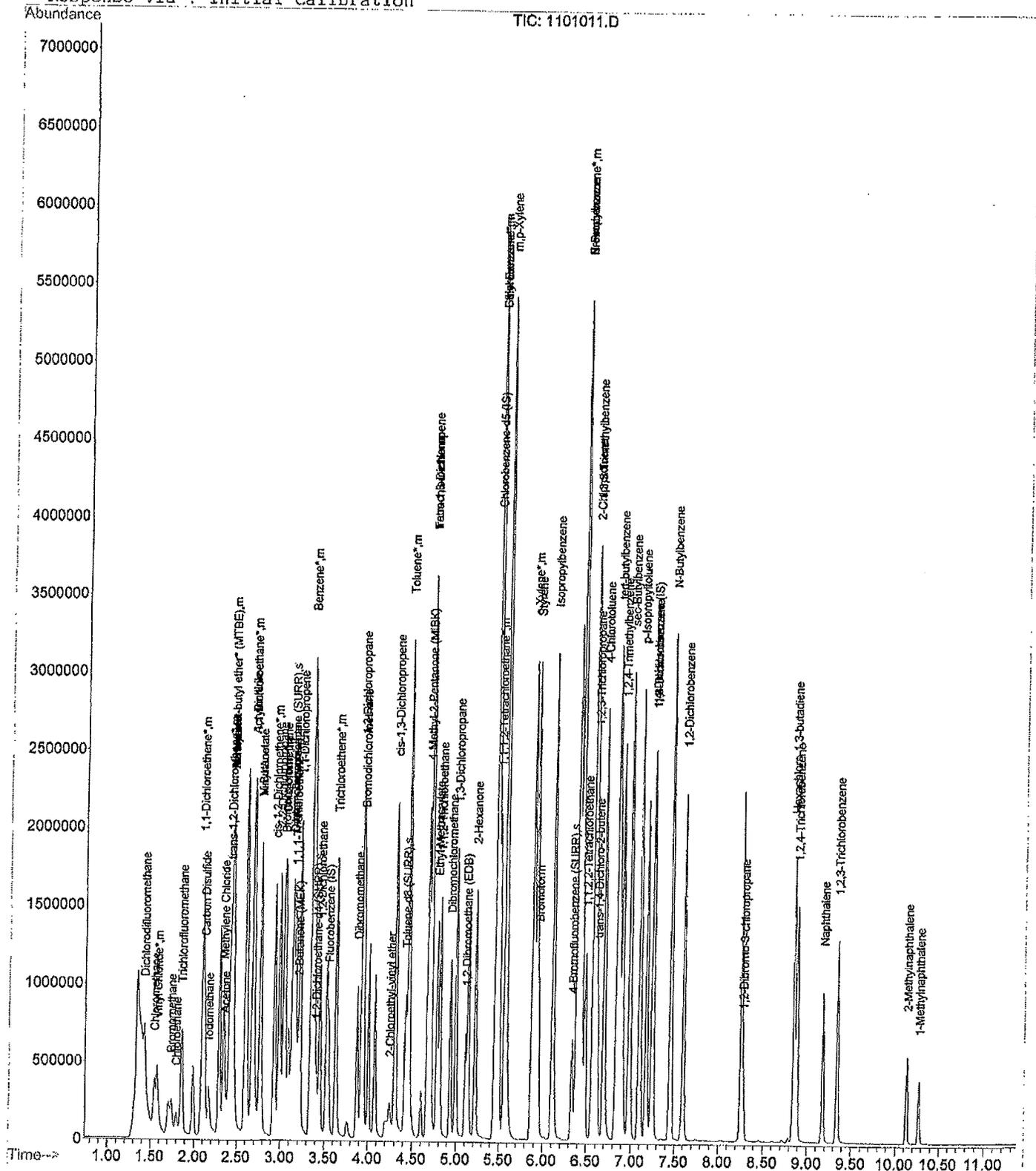
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D
 Acq On : 30 Jan 2015 6:11 pm
 Sample : 50ppb 8260 ical verification
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 5 23:33 2015

Vial: 11
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



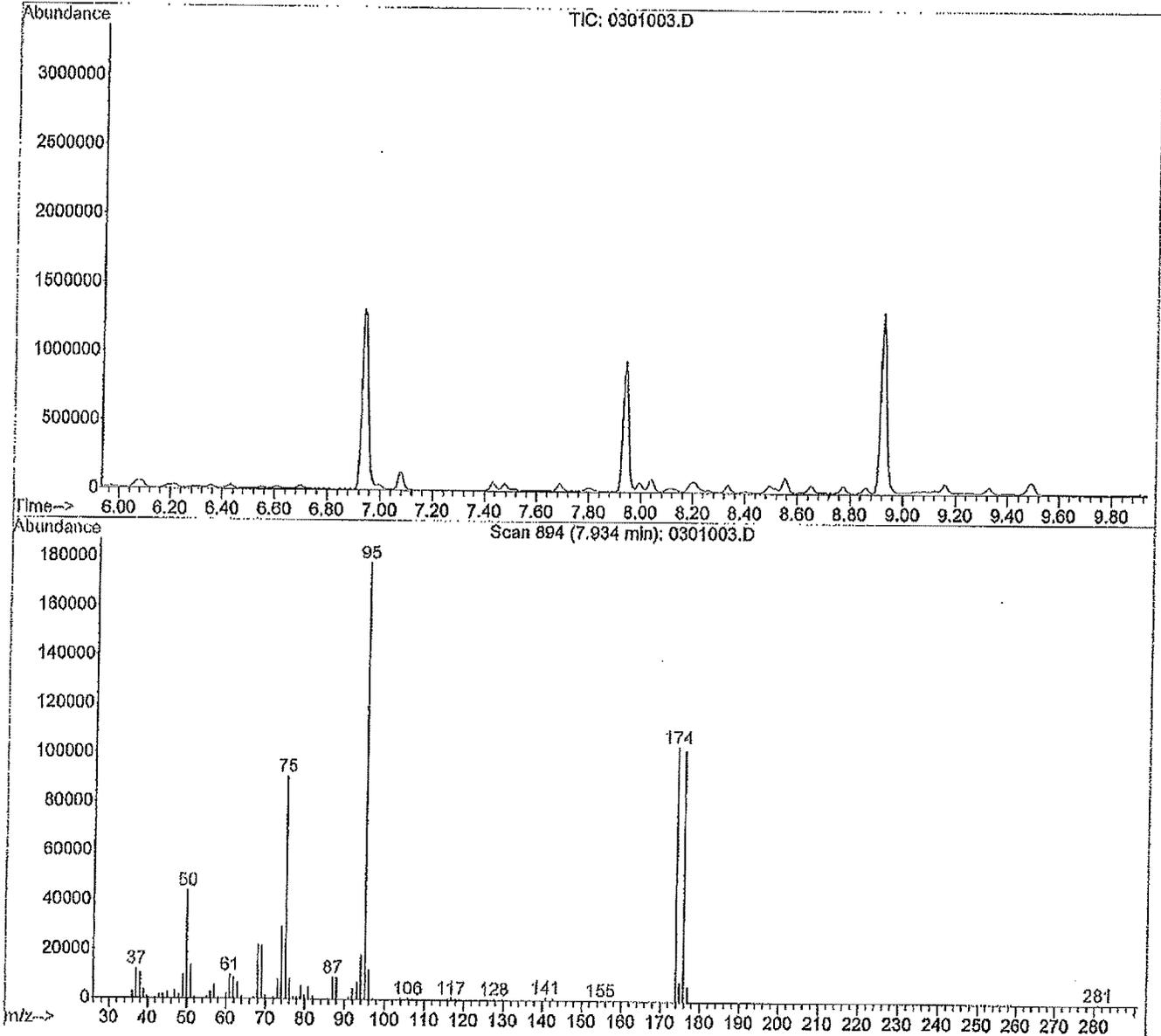
Injection Log

Directory: C:\HPCHEM1\DATA\011615C

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	b	ical	16 Jan 2015 15:51
2	2	0201002.D	1.	b	ical	16 Jan 2015 16:11
3	3	0301003.D	1.	1ppb 8260 ical	ical	16 Jan 2015 16:32
4	4	0401004.D	1.	5ppb 8260 ical	ical	16 Jan 2015 16:52
5	5	0501005.D	1.	10ppb 8260 ical	ical	16 Jan 2015 17:12
6	6	0601006.D	1.	20ppb 8260 ical	ical	16 Jan 2015 17:33
7	7	0701007.D	1.	50ppb 8260 ical	ical	16 Jan 2015 17:53
8	8	0801008.D	1.	100ppb 8260 ical	ical	16 Jan 2015 18:14
9	9	0901009.D	1.	b	ical	16 Jan 2015 18:34
10	10	1001010.D	1.	200ppb 8260 ical	qc	16 Jan 2015 18:55
11	11	1101011.D	1.	b	qc	16 Jan 2015 19:15
12	12	1201012.D	1.	50ppb 8260 icv/lcs	qc	16 Jan 2015 19:36
13	13	1301013.D	1.	mb	qc	16 Jan 2015 19:56
14	14	1401014.D	1.	15-458	a	16 Jan 2015 20:16
15	15	1501015.D	1.	15-460	a	16 Jan 2015 20:37
16	16	1601016.D	1.	15-529 con	a	16 Jan 2015 20:57
17	17	1701017.D	1.	15-508	a	16 Jan 2015 21:18
18	18	1801018.D	1.	15-509 tb	a	16 Jan 2015 21:38
19	19	1901019.D	1.	15-510	a	16 Jan 2015 21:58
20	20	2001020.D	1.	15-511 tb	a	16 Jan 2015 22:19
21	21	2101021.D	1.	15-512 tb	a	16 Jan 2015 22:39
22	22	2201022.D	1.	15-513	a	16 Jan 2015 22:59
23	23	2301023.D	1.	15-514	a	16 Jan 2015 23:20
24	24	2401024.D	1.	15-515	a	16 Jan 2015 23:40
25	25	2501025.D	1.	15-516	a	17 Jan 2015 00:01
26	26	2601026.D	1.	15-517	a	17 Jan 2015 00:21
27	27	2701027.D	1.	15-518	a	17 Jan 2015 00:41
28	28	2801028.D	1.	15-566	a	17 Jan 2015 01:02
29	29	2901029.D	1.	15-573 tb	a	17 Jan 2015 01:22
30	30	3001030.D	1.	15-580	a	17 Jan 2015 01:42
31	31	3101031.D	1.	15-519	a	17 Jan 2015 02:02
32	32	3201032.D	1.	15-519ms	a	17 Jan 2015 02:23
33	33	3301033.D	1.	15-519msd	b	17 Jan 2015 02:43
34		3401034.D	1.			

BFB

Data File : C:\HPCHEM\1\DATA\011615C\0301003.D Vial: 3
Acq On : 16 Jan 2015 4:32 pm Operator: GJD
Sample : 1ppb 8260 ical Inst : GC/MS #2
Misc : ical Multiplr: 1.00
MS Integration Params: rteint.p
Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
Title : 8260 voa analysis



Spectrum Information: Scan 894

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	43888	PASS
75	95	30	60	50.9	90712	PASS
95	95	100	100	100.0	178112	PASS
96	95	5	9	6.7	11973	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	58.2	103608	PASS
175	174	5	9	7.5	7733	PASS
176	174	95	100	98.5	102040	PASS
177	176	5	9	6.0	6171	PASS

Response Factor Report GC/MS #2

Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Wed Jan 21 10:54:54 2015
 Response via : Initial Calibration

Calibration Files

5 =0401004.D 20 =0601006.D 100 =0801008.D
 1 =0301003.D 200 =1001010.D 10 =0501005.D

Compound	5	20	100	1	200	10	Avg	%RSD
1) I Fluorobenzene (IS)	-----ISTD-----							
2) T Dichlorodifluoromet	0.620	0.680	0.718		0.710	0.674	0.689	5.86
3) T Chloromethane	0.527	0.619	0.659		0.668	0.607	0.626	9.04
4) T Vinyl Chloride	0.503	0.538	0.573	0.547	0.568	0.535	0.552	5.71
5) T Bromomethane	0.294	0.276	0.269		0.254	0.280	0.277	5.38
6) T Chloroethane	0.190	0.231	0.208		0.179	0.236	0.212	11.10
7) T Acrolein	0.255	0.285	0.295		0.282	0.273	0.282	6.11
8) T Trichlorofluorometh	0.477	0.565	0.497		0.540	0.520	0.535	9.09
9) T Acetone	0.122	0.112	0.112		0.111	0.134	0.118	7.53
10) T 1,1-Dichloroethene	0.641	0.688	0.729		0.715	0.695	0.705	5.74
11) T Acrylonitrile	0.682	0.732	0.784		0.774	0.708	0.749	6.69
12) T Iodomethane	0.515	0.634	0.729		0.757	0.584	0.655	14.33
13) T Methylene Chloride	0.590	0.482	0.479		0.473	0.500	0.504	8.58
14) T Carbon Disulfide	1.484	1.564	1.651		1.609	1.554	1.598	5.25
15) T trans-1,2-Dichloroe	0.392	0.412	0.445		0.439	0.406	0.426	6.27
16) T Methyl-tert-butyl e	0.897	0.887	0.973		0.983	0.874	0.930	5.29
17) T 1,1-Dichloroethane	0.742	0.871	0.931		0.919	0.835	0.875	8.88
18) T Vinyl Acetate	0.608	0.595	0.626		0.624	0.599	0.617	3.14
19) T N-Hexane	0.613	0.622	0.651		0.624	0.639	0.637	3.41
20) n-Butanol	0.331	0.337	0.349		0.342	0.338	0.343	3.32
21) T 2-Butanone (MEK)	0.169	0.146	0.158		0.154	0.147	0.156	6.03
22) T cis-1,2-Dichloroeth	0.620	0.627	0.658		0.646	0.607	0.643	5.17
23) T Bromochloromethane	0.215	0.219	0.238		0.239	0.212	0.227	5.82
24) T Chloroform	0.815	0.835	0.913		1.019	0.822	0.889	8.96
25) T 2,2-Dichloropropane	0.571	0.608	0.739		0.759	0.677	0.681	11.30
26) S Dibromofluoromethan	0.301	0.293	0.292		0.291	0.301	0.295	1.46
27) S 1,2-Dichloroethane-	0.338	0.343	0.343		0.332	0.339	0.338	1.33
28) T 1,2-Dichloroethane	0.650	0.655	0.695		0.721	0.615	0.675	6.11
29) T 1,1,1-Trichloroetha	0.606	0.654	0.718		0.721	0.630	0.677	7.93
30) T 1,1-Dichloropropene	0.595	0.634	0.690		0.685	0.621	0.655	6.85
31) T Carbon Tetrachlorid	0.512	0.554	0.611		0.610	0.542	0.577	8.14
32) T Benzene	1.652	1.700	1.870		1.901	1.656	1.780	6.93
33) T Dibromomethane	0.276	0.281	0.303		0.302	0.268	0.290	5.76
34) T 1,2-Dichloropropane	0.450	0.471	0.498		0.486	0.449	0.479	5.74
35) T Trichloroethene	0.417	0.436	0.475		0.474	0.409	0.450	7.42
36) T Bromodichloromethan	0.658	0.684	0.749		0.759	0.660	0.712	7.04
37) T 2-Chloroethyl-vinyl	0.113	0.118	0.124		0.121	0.112	0.120	5.74
38) T cis-1,3-Dichloropro	0.785	0.800	0.864		0.874	0.776	0.831	5.85
39) T 4-Methyl-2-Pentanon	0.379	0.353	0.369		0.353	0.354	0.365	3.85
40) T trans-1,3-Dichlorop	0.736	0.716	0.760		0.762	0.696	0.742	4.36
41) T 1,1,2-Trichloroetha	0.307	0.307	0.333		0.330	0.303	0.319	4.81
42) S Toluene-d8 (SURR)	0.859	0.870	0.869		0.865	0.873	0.869	0.79
43) T Toluene	1.757	1.663	1.771		1.807	1.649	1.744	4.13
44) T Ethyl Methacrylate	0.275	0.267	0.293		0.295	0.264	0.282	5.50
45) T 1,3-Dichloropropane	0.719	0.702	0.758		0.766	0.670	0.730	5.36
46) T 2-Hexanone	0.287	0.261	0.278		0.275	0.265	0.266	7.23
47) I Chlorobenzene-d5 (IS)	-----ISTD-----							
48) T Dibromochloromethan	0.607	0.610	0.680		0.709	0.588	0.646	7.77
49) T 1,2-Dibromoethane (	0.522	0.508	0.556		0.584	0.499	0.537	6.10
50) T Tetrachloroethene	0.538	0.606	0.659		0.686	0.588	0.625	9.18
51) T 1,1,1,2-Tetrachloro	0.545	0.560	0.596		0.619	0.525	0.576	6.59
52) T Chlorobenzene	1.432	1.495	1.560		1.583	1.427	1.520	5.39
53) T Ethylbenzene	2.683	2.725	2.858		2.933	2.644	2.803	4.90
54) T m,p-Xylene	2.105	2.073	2.266		2.191	2.032	2.159	4.88
55) T Bromoform	0.332	0.349	0.380		0.399	0.330	0.362	7.96
56) T Styrene	1.556	1.620	1.776		1.834	1.532	1.684	7.76
57) T 1,1,2,2-Tetrachloro	0.662	0.631	0.685		0.707	0.617	0.665	5.35
58) T o-Xylene	0.941	0.954	1.003		1.026	0.919	0.977	4.64
59) T trans-1,4-Dichloro-	0.200	0.188	0.210		0.218	0.185	0.203	6.75
60) T 1,2,3-Trichloroprop	0.834	0.786	0.859		0.874	0.624	0.808	11.84
61) T Isopropylbenzene	2.428	2.500	2.779		2.927	2.382	2.633	8.53
62) S 4-Bromofluorobenzen	0.524	0.522	0.524		0.544	0.510	0.524	2.19
63) T Bromobenzene	0.558	0.567	0.607		0.623	0.538	0.585	6.08
64) T N-propylbenzene	3.113	3.231	3.548		3.625	3.109	3.370	7.27
65) T 2-Chlorotoluene	2.016	2.116	2.259		2.342	1.998	2.173	6.91

66)	T	4-Chlorotoluene	0.603	0.605	0.649	0.674	0.575	0.630	6.55	
67)	I	1,4-Dichlorobenzene-d	-----ISTD-----							
68)	T	1,3,5-Trimethylbenz	4.248	4.309	4.578	4.649	4.183	4.436	4.80	
69)	T	tert-Butylbenzene	4.326	4.494	4.749	4.848	4.519	4.640	4.90	
70)	T	1,2,4-Trimethylbenz	4.897	4.449	4.661	4.738	4.490	4.666	3.65	
71)	T	sec-Butylbenzene	5.617	5.977	6.493	6.660	5.760	6.182	7.33	
72)	T	1,3-Dichlorobenzene	2.360	2.406	2.559	2.636	2.342	2.492	5.61	
73)	T	1,4-Dichlorobenzene	1.554	1.556	1.631	1.641	1.488	1.588	4.13	
74)	T	p-Isopropyltoluene	4.709	4.840	5.269	5.373	4.758	5.047	6.11	
75)	T	1,2-Dichlorobenzene	2.173	2.238	2.403	2.443	2.185	2.312	5.49	
76)	T	N-Butylbenzene	4.717	5.053	5.345	5.471	4.872	5.166	6.50	
77)	T	1,2-Dibromo-3-chlor	0.192	0.173	0.193	0.196	0.165	0.185	6.81	
78)	T	1,2,4-Trichlorobenz	1.423	1.357	1.441	1.441	1.315	1.413	4.69	
79)	T	Naphthalene	3.409	3.009	3.174	4.155	3.236	3.130	3.341	11.37
80)	T	Hexachloro-1,3-buta	0.720	0.746	0.806	0.813	0.741	0.776	5.79	
81)	T	1,2,3-Trichlorobenz	1.221	1.218	1.290	1.295	1.194	1.256	4.00	
82)		1-methylnaphthalene	1.427	1.334	1.379	1.394	1.350	1.393	3.60	
83)		2-methylnaphthalene	1.917	1.785	1.840	1.746	1.734	1.836	5.51	

(#) = Out of Range ### Number of calibration levels exceeded format ###

011615RC.M

Wed Jan 21 10:55:26 2015 VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0301003.D
 Acq On : 16 Jan 2015 4:32 pm
 Sample : 1ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 21 10:52 2015

Vial: 3
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:42:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.67	96	841515	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.94	117	618449	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.92	152	283180	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.13	113	245771	49.42	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	98.84%
27) 1,2-Dichloroethane-d4 (SUR)	4.49	65	277927	48.78	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	97.56%
42) Toluene-d8 (SURR)	5.76	98	713583	48.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	97.56%
62) 4-Bromofluorobenzene (SURR)	7.94	95	316275	48.82	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	97.64%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.72	62	9209m	1.00	ug/L	
6) Chloroethane	2.08	64	3218	0.90	ug/L #	51
7) Acrolein	3.13	56	4956	1.04	ug/L #	99
8) Trichlorofluoromethane	2.20	101	7852	0.87	ug/L #	98
9) Acetone	3.02	43	14165	7.14	ug/L #	95
10) 1,1-Dichloroethene	2.57	61	10392	0.88	ug/L	94
11) Acrylonitrile	3.48	53	11401	0.90	ug/L	94
13) Methylene Chloride	2.98	84	19198	2.26	ug/L	91
14) Carbon Disulfide	2.58	76	29780	1.11	ug/L #	86
15) trans-1,2-Dichloroethene	3.09	96	7126	0.99	ug/L	90
16) Methyl-tert-butyl ether	3.17	73	15929	1.02	ug/L #	92
17) 1,1-Dichloroethane	3.49	63	14299	0.97	ug/L	95
18) Vinyl Acetate	3.41	43	11319	1.09	ug/L #	100
19) N-Hexane	3.13	57	10376	0.97	ug/L	97
20) n-Butanol	3.65	57	6146	1.06	ug/L #	91
21) 2-Butanone (MEK)	4.22	43	9762	3.71	ug/L #	84
22) cis-1,2-Dichloroethene	3.84	61	11638	1.08	ug/L	94
23) Bromochloromethane	3.98	128	3431	0.90	ug/L #	88
24) Chloroform	4.02	83	13621	0.91	ug/L	89
28) 1,2-Dichloroethane	4.53	62	11494	1.01	ug/L	99
29) 1,1,1-Trichloroethane	4.16	97	10551	0.93	ug/L	98
30) 1,1-Dichloropropene	4.24	75	10503	0.95	ug/L	95
31) Carbon Tetrachloride	4.11	117	9361	0.96	ug/L	93
32) Benzene	4.40	78	31282	1.04	ug/L	97
33) Dibromomethane	5.08	93	4593	0.94	ug/L	95
34) 1,2-Dichloropropane	5.15	63	8557	1.06	ug/L	98
35) Trichloroethene	4.78	95	7871	1.04	ug/L	91
36) Bromodichloromethane	5.18	83	12337	1.03	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.15	63	8557	4.25	ug/L #	97
38) cis-1,3-Dichloropropene	5.62	75	13717	0.98	ug/L	89
39) 4-Methyl-2-Pentanone (MIBK)	6.06	43	20161	3.28	ug/L #	92
40) trans-1,3-Dichloropropene	6.09	75	13283	1.06	ug/L	90
41) 1,1,2-Trichloroethane	6.22	83	5850	1.09	ug/L	98
43) Toluene	5.79	91	43188	1.47	ug/L	99
44) Ethyl Methacrylate	5.27	69	5245	1.10	ug/L #	73
45) 1,3-Dichloropropane	6.43	76	12756	1.04	ug/L	96
46) 2-Hexanone	6.70	43	16365	3.65	ug/L #	97
48) Dibromochloromethane	6.35	129	8174	1.02	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.55	107	7551	1.14	ug/L #	92
50) Tetrachloroethene	6.08	166	7720	1.00	ug/L	98
51) 1,1,1,2-Tetrachloroethane	6.99	131	7356	1.03	ug/L #	91
52) Chlorobenzene	6.95	112	19634	1.04	ug/L #	72
53) Ethylbenzene	6.97	91	39599	1.14	ug/L #	91
54) m,p-Xylene	7.07	91	69550	2.60	ug/L	99

(#) = qualifier out of range (m) = manual integration
 0301003.D 011615RC.M Wed Jan 21 10:52:11 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0301003.D
 Acq On : 16 Jan 2015 4:32 pm
 Sample : 1ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 21 10:52 2015

Vial: 3
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:42:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55) Bromoform	7.51	173	4960	1.11	ug/L #	93
56) Styrene	7.48	104	19697	0.95	ug/L	95
57) 1,1,2,2-Tetrachloroethane	8.10	83	9027	1.10	ug/L	88
58) o-Xylene	7.43	106	13945	1.15	ug/L	95
59) trans-1,4-Dichloro-2-buten	8.26	53	2555	1.02	ug/L	98
60) 1,2,3-Trichloropropane	8.23	75	11751	1.18	ug/L #	96
61) Isopropylbenzene	7.69	105	32128	0.99	ug/L	98
63) Bromobenzene	8.04	156	8031	1.11	ug/L	91
64) N-propylbenzene	8.04	91	45901	1.10	ug/L	97
65) 2-Chlorotoluene	8.19	91	30784	1.15	ug/L	96
66) 4-Chlorotoluene	8.33	126	7938	1.02	ug/L	96
68) 1,3,5-Trimethylbenzene	8.21	105	31775	1.26	ug/L	96
69) tert-Butylbenzene	8.49	119	27636	1.05	ug/L	99
70) 1,2,4-Trimethylbenzene	8.55	105	54920	2.08	ug/L #	96
71) sec-Butylbenzene	8.65	105	35412	1.01	ug/L #	93
72) 1,3-Dichlorobenzene	8.86	146	14794	1.05	ug/L	96
73) 1,4-Dichlorobenzene	8.86	148	10141	1.13	ug/L	93
74) p-Isopropyltoluene	8.78	119	29052	1.02	ug/L	98
75) 1,2-Dichlorobenzene	9.32	146	14849	1.13	ug/L	98
76) N-Butylbenzene	9.16	91	31363	1.07	ug/L #	96
77) 1,2-Dibromo-3-chloropropan	10.07	155	1100	1.05	ug/L #	61
78) 1,2,4-Trichlorobenzene	10.72	180	11072	1.38	ug/L	86
79) Naphthalene	11.04	128	23531m	1.32	ug/L	
80) Hexachloro-1,3-butadiene	10.69	225	4525	1.03	ug/L	98
81) 1,2,3-Trichlorobenzene	11.23	180	10201	1.43	ug/L	90
82) 1-methylnaphthalene	12.26	142	11825	1.50	ug/L	94
83) 2-methylnaphthalene	12.09	142	15463	1.49	ug/L	98

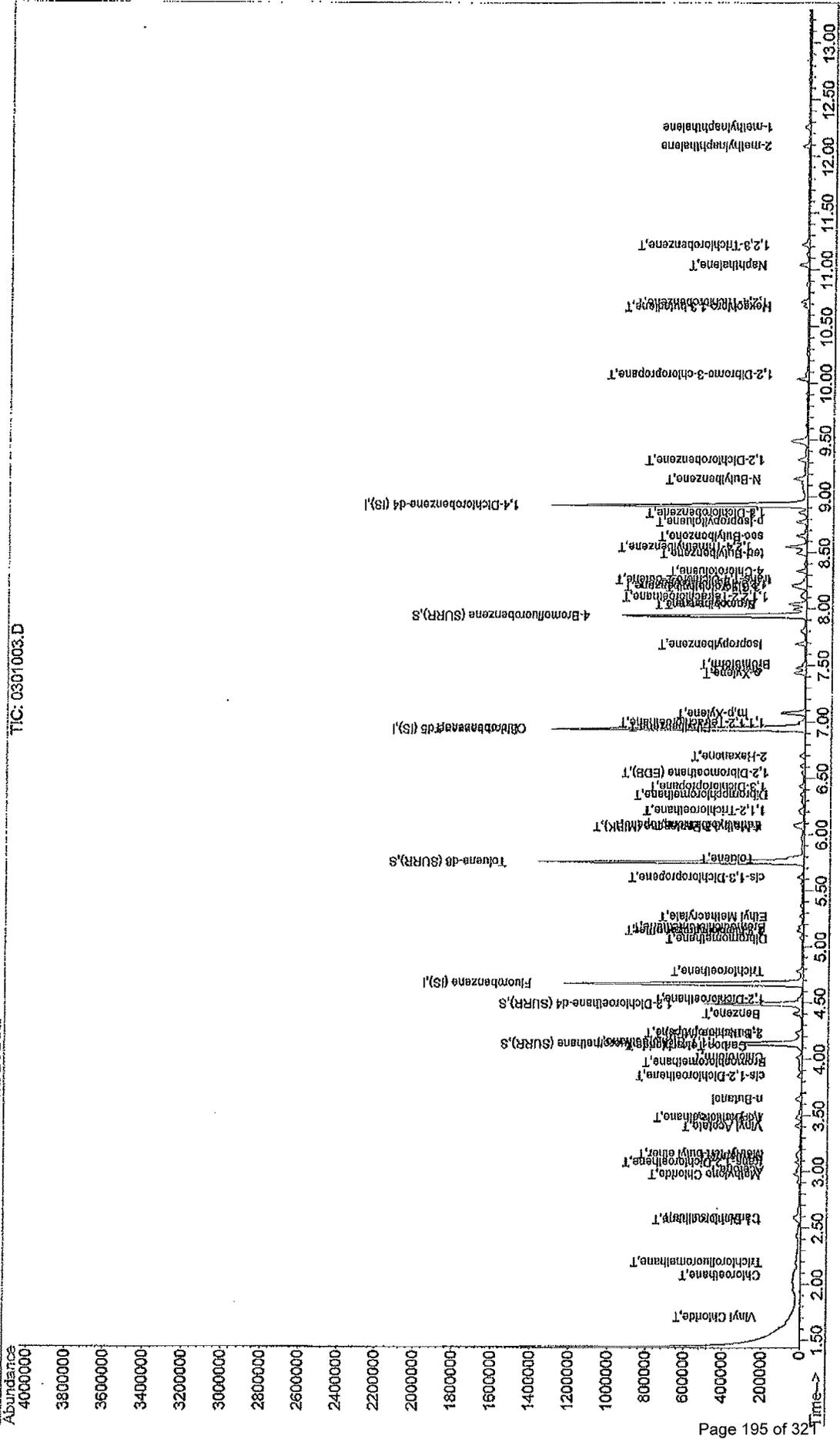
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011615RC\0301003.D
 Acq On : 16 Jan 2015 4:32 pm
 Sample : 1ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 21 10:52 2015

Vial: 3
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Method : F:\HPCHEM\1\METHODS\011615RC.M (RIE Integrator)
 Title : 8260 vca analysis
 Last Update : Sat Jan 17 09:42:40 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615CN\0401004.D
 Acq On : 16 Jan 2015 4:52 pm
 Sample : 5ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 17 9:41 2015

Vial: 4
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Fri Jan 16 12:18:07 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.67	96	786628	50.00	ug/L	0.01
47) Chlorobenzene-d5 (IS)	6.94	117	582852	50.00	ug/L	0.01
67) 1,4-Dichlorobenzene-d4 (IS)	8.93	152	270211	50.00	ug/L	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.14	113	236382	55.29	ug/L	0.01
Spiked Amount	50.000	Range 69 - 137	Recovery =	110.58%		
27) 1,2-Dichloroethane-d4 (SUR)	4.49	65	266054	55.29	ug/L	0.01
Spiked Amount	50.000	Range 67 - 144	Recovery =	110.58%		
42) Toluene-d8 (SURR)	5.76	98	675334	54.58	ug/L	0.01
Spiked Amount	50.000	Range 60 - 128	Recovery =	109.16%		
62) 4-Bromofluorobenzene (SURR)	7.94	95	305274	54.33	ug/L	0.02
Spiked Amount	50.000	Range 62 - 145	Recovery =	108.66%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	48747m	8.15	ug/L	
3) Chloromethane	1.74	50	41424	5.10	ug/L #	86
4) Vinyl Chloride	1.72	62	39590m	5.42	ug/L	
5) Bromomethane	1.98	94	23125m	6.06	ug/L	
6) Chloroethane	2.08	64	14983	5.23	ug/L #	80
7) Acrolein	3.13	56	20037	4.74	ug/L #	96
8) Trichlorofluoromethane	2.19	101	37547	5.44	ug/L #	73
9) Acetone	3.01	43	23978m	16.43	ug/L	
10) 1,1-Dichloroethene	2.57	61	50408	5.30	ug/L	98
11) Acrylonitrile	3.48	53	53656	5.20	ug/L	97
12) Iodomethane	2.67	142	40510m	4.26	ug/L	
13) Methylene Chloride	2.98	84	46372	7.04	ug/L	91
14) Carbon Disulfide	2.58	76	116736	5.63	ug/L	96
15) trans-1,2-Dichloroethene	3.09	96	30845	5.37	ug/L	98
16) Methyl-tert-butyl ether	3.16	73	70543	5.44	ug/L	98
17) 1,1-Dichloroethane	3.49	63	58331	4.74	ug/L	98
18) Vinyl Acetate	3.41	43	47814	5.30	ug/L #	100
19) N-Hexane	3.14	57	48207	5.22	ug/L	94
20) n-Butanol	3.64	57	26062	5.11	ug/L #	96
21) 2-Butanone (MEK)	4.22	43	33295	16.02	ug/L	98
22) cis-1,2-Dichloroethene	3.84	61	48796	5.30	ug/L	95
23) Bromochloromethane	3.98	128	16924	5.38	ug/L #	95
24) Chloroform	4.02	83	64128	5.18	ug/L	100
25) 2,2-Dichloropropane	3.92	77	38466	4.41	ug/L	98
28) 1,2-Dichloroethane	4.54	62	51153	5.51	ug/L	96
29) 1,1,1-Trichloroethane	4.16	97	47702	5.19	ug/L	99
30) 1,1-Dichloropropene	4.24	75	46814	5.17	ug/L	96
31) Carbon Tetrachloride	4.11	117	40239	5.19	ug/L	100
32) Benzene	4.40	78	129959	5.26	ug/L	99
33) Dibromomethane	5.07	93	21738	5.38	ug/L	96
34) 1,2-Dichloropropane	5.15	63	35408	5.24	ug/L	97
35) Trichloroethene	4.78	95	32813	5.22	ug/L	97
36) Bromodichloromethane	5.18	83	51766	5.14	ug/L	98
37) 2-Chloroethyl-vinyl-ether	5.15	63	35408	20.96	ug/L #	97
38) cis-1,3-Dichloropropene	5.62	75	61785	5.25	ug/L	96
39) 4-Methyl-2-Pentanone (MIBK)	6.07	43	74531	14.77	ug/L #	91
40) trans-1,3-Dichloropropene	6.09	75	57866	5.60	ug/L	99
41) 1,1,2-Trichloroethane	6.22	83	24136	5.37	ug/L	97
43) Toluene	5.80	91	136205	5.58	ug/L	99
44) Ethyl Methacrylate	5.27	69	21613	5.60	ug/L	98
45) 1,3-Dichloropropane	6.43	76	56564	5.50	ug/L	97
46) 2-Hexanone	6.70	43	56520	15.80	ug/L	99
48) Dibromochloromethane	6.36	129	35395	5.49	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.55	107	30431	5.74	ug/L	98

(#) = qualifier out of range (m) = manual integration
 0401004.D 011615RC.M Wed Jan 21 10:57:00 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0401004.D
 Acq On : 16 Jan 2015 4:52 pm
 Sample : 5ppb 8260 ical
 Misc : ical

Vial: 4
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jan 17 9:41 2015

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Fri Jan 16 12:18:07 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene	6.08	166	31335	4.97 ug/L	98
51) 1,1,1,2-Tetrachloroethane	7.00	131	31774	5.41 ug/L	96
52) Chlorobenzene	6.95	112	83436	5.35 ug/L	90
53) Ethylbenzene	6.96	91	156383	5.51 ug/L	97
54) m, p-Xylene	7.08	91	245430	11.51 ug/L	98
55) Bromoform	7.51	173	19360	5.40 ug/L #	95
56) Styrene	7.48	104	90669	5.12 ug/L	99
57) 1,1,2,2-Tetrachloroethane	8.10	83	38575	5.65 ug/L	99
58) o-Xylene	7.43	106	54833	5.51 ug/L	99
59) trans-1,4-Dichloro-2-buten	8.26	53	11628	5.64 ug/L	97
60) 1,2,3-Trichloropropane	8.23	75	48587	5.74 ug/L	98
61) Isopropylbenzene	7.69	105	141510	5.25 ug/L	98
63) Bromobenzene	8.04	156	32547	5.39 ug/L	98
64) N-propylbenzene	8.05	91	181418	5.33 ug/L	98
65) 2-Chlorotoluene	8.19	91	117523	5.32 ug/L	99
66) 4-Chlorotoluene	8.34	126	35157	5.62 ug/L	91
68) 1,3,5-Trimethylbenzene	8.21	105	114790	5.33 ug/L	98
69) tert-Butylbenzene	8.50	119	116898	5.34 ug/L	99
70) 1,2,4-Trimethylbenzene	8.56	105	132329	5.94 ug/L #	99
71) sec-Butylbenzene	8.65	105	151765	5.01 ug/L #	99
72) 1,3-Dichlorobenzene	8.86	146	63758	5.45 ug/L	98
73) 1,4-Dichlorobenzene	8.94	148	41992	5.60 ug/L	96
74) p-Isopropyltoluene	8.77	119	127250	5.36 ug/L	99
75) 1,2-Dichlorobenzene	9.33	146	58725	5.33 ug/L	98
76) N-Butylbenzene	9.16	91	127472	5.12 ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.08	155	5182	6.11 ug/L	100
78) 1,2,4-Trichlorobenzene	10.72	180	38463	5.61 ug/L	96
79) Naphthalene	11.05	128	92128	5.92 ug/L	99
80) Hexachloro-1,3-butadiene	10.68	225	19463	5.57 ug/L	98
81) 1,2,3-Trichlorobenzene	11.22	180	33006	5.30 ug/L	99
82) 1-methylnaphthalene	12.25	142	38564	6.05 ug/L	86
83) 2-methylnaphthalene	12.09	142	51807	6.00 ug/L	86

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0501005.D
 Acq On : 16 Jan 2015 5:12 pm
 Sample : 10ppb 8260 ical
 Misc : ical

Vial: 5
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jan 17 9:41 2015

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:34:42 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.67	96	777497	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.94	117	586864	50.00	ug/L	0.02
67) 1,4-Dichlorobenzene-d4 (IS)	8.93	152	267779	50.00	ug/L	0.02

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.14	113	234004	54.47	ug/L	0.02
Spiked Amount	50.000	Range	69 - 137	Recovery	=	108.94%
27) 1,2-Dichloroethane-d4 (SUR)	4.49	65	263892	54.69	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	109.38%
42) Toluene-d8 (SURR)	5.76	98	679105	54.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	109.12%
62) 4-Bromofluorobenzene (SURR)	7.94	95	299217	52.07	ug/L	0.02
Spiked Amount	50.000	Range	62 - 145	Recovery	=	104.14%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	104747m	15.72	ug/L	
3) Chloromethane	1.73	50	94328	11.79	ug/L	# 78
4) Vinyl Chloride	1.71	62	83242m	11.33	ug/L	
5) Bromomethane	1.98	94	43493m	12.31	ug/L	
6) Chloroethane	2.08	64	36725m	12.95	ug/L	
7) Acrolein	3.13	56	42399	10.23	ug/L	# 91
8) Trichlorofluoromethane	2.19	101	80816	11.72	ug/L	# 79
9) Acetone	3.02	43	52147	32.96	ug/L	95
10) 1,1-Dichloroethene	2.57	61	108127	11.39	ug/L	99
11) Acrylonitrile	3.48	53	110109	10.68	ug/L	99
12) Iodomethane	2.67	142	90748m	9.87	ug/L	
13) Methylene Chloride	2.97	84	77758	11.34	ug/L	98
14) Carbon Disulfide	2.58	76	241686	11.52	ug/L	98
15) trans-1,2-Dichloroethene	3.08	96	63084	10.90	ug/L	98
16) Methyl-tert-butyl ether	3.16	73	135884	10.25	ug/L	97
17) 1,1-Dichloroethane	3.50	63	129883	10.72	ug/L	100
18) Vinyl Acetate	3.41	43	93198	10.39	ug/L	# 100
19) N-Hexane	3.13	57	99426	10.78	ug/L	96
20) n-Butanol	3.64	57	52508	10.40	ug/L	99
21) 2-Butanone (MEK)	4.22	43	57122	26.90	ug/L	99
22) cis-1,2-Dichloroethene	3.85	61	94442	10.18	ug/L	93
23) Bromochloromethane	3.98	128	32928	10.41	ug/L	# 99
24) Chloroform	4.02	83	127852	10.31	ug/L	99
25) 2,2-Dichloropropane	3.91	77	86847	9.92	ug/L	# 95
28) 1,2-Dichloroethane	4.53	62	95586	10.22	ug/L	100
29) 1,1,1-Trichloroethane	4.16	97	97919	10.62	ug/L	97
30) 1,1-Dichloropropene	4.23	75	96491	10.65	ug/L	99
31) Carbon Tetrachloride	4.11	117	84353	10.86	ug/L	98
32) Benzene	4.40	78	257457	10.39	ug/L	98
33) Dibromomethane	5.08	93	41691	10.30	ug/L	97
34) 1,2-Dichloropropane	5.14	63	69786	10.32	ug/L	99
35) Trichloroethene	4.78	95	63647	10.17	ug/L	96
36) Bromodichloromethane	5.18	83	102559	10.18	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.14	63	69786	41.29	ug/L	# 100
38) cis-1,3-Dichloropropene	5.62	75	120651	10.23	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	6.06	43	137673	26.96	ug/L	100
40) trans-1,3-Dichloropropene	6.10	75	108170	10.33	ug/L	99
41) 1,1,2-Trichloroethane	6.22	83	47079	10.45	ug/L	99
43) Toluene	5.80	91	256377	10.41	ug/L	99
44) Ethyl Methacrylate	5.27	69	40984	10.49	ug/L	96
45) 1,3-Dichloropropane	6.43	76	104232	10.08	ug/L	98
46) 2-Hexanone	6.70	43	102895	28.21	ug/L	98
48) Dibromochloromethane	6.36	129	69004	10.38	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.55	107	58582	10.66	ug/L	98

(#) = qualifier out of range (m) = manual integration
 0501005.D 011615RC.M Wed Jan 21 10:57:05 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0501005.D
 Acq On : 16 Jan 2015 5:12 pm
 Sample : 10ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 17 9:41 2015

Vial: 5
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:34:42 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene	6.08	166	69030	10.71 ug/L	95
51) 1,1,1,2-Tetrachloroethane	7.00	131	61659	10.24 ug/L	96
52) Chlorobenzene	6.96	112	167463	10.50 ug/L	95
53) Ethylbenzene	6.96	91	310359	10.64 ug/L	98
54) m,p-Xylene	7.08	91	476921	21.62 ug/L	99
55) Bromoform	7.51	173	38775	10.53 ug/L	99
56) Styrene	7.48	104	179840	10.04 ug/L	100
57) 1,1,2,2-Tetrachloroethane	8.11	83	72366	10.34 ug/L	98
58) o-Xylene	7.44	106	107861	10.53 ug/L	98
59) trans-1,4-Dichloro-2-buten	8.26	53	21770	10.30 ug/L	94
60) 1,2,3-Trichloropropane	8.23	75	73256m	8.42 ug/L	
61) Isopropylbenzene	7.69	105	279628	10.12 ug/L	98
63) Bromobenzene	8.04	156	63105	10.23 ug/L	96
64) N-propylbenzene	8.04	91	364935	10.50 ug/L	99
65) 2-Chlorotoluene	8.19	91	234523	10.38 ug/L	98
66) 4-Chlorotoluene	8.33	126	67541	10.46 ug/L	98
68) 1,3,5-Trimethylbenzene	8.21	105	224003	10.32 ug/L	96
69) tert-Butylbenzene	8.49	119	242021	10.99 ug/L	98
70) 1,2,4-Trimethylbenzene	8.56	105	240482	10.54 ug/L	# 99
71) sec-Butylbenzene	8.65	105	308494	10.21 ug/L	# 99
72) 1,3-Dichlorobenzene	8.86	146	125428	10.63 ug/L	98
73) 1,4-Dichlorobenzene	8.94	148	79701	10.54 ug/L	98
74) p-Isopropyltoluene	8.78	119	254826	10.60 ug/L	98
75) 1,2-Dichlorobenzene	9.33	146	117005	10.54 ug/L	98
76) N-Butylbenzene	9.16	91	260907	10.46 ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.08	155	8835	10.07 ug/L	94
78) 1,2,4-Trichlorobenzene	10.72	180	70443	10.24 ug/L	100
79) Naphthalene	11.04	128	167624	10.75 ug/L	99
80) Hexachloro-1,3-butadiene	10.68	225	39686	11.21 ug/L	97
81) 1,2,3-Trichlorobenzene	11.22	180	63972	10.27 ug/L	96
82) 1-methylnaphthalene	12.26	142	72313	11.61 ug/L	84
83) 2-methylnaphthalene	12.09	142	92882	10.95 ug/L	91

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0601006.D
 Acq On : 16 Jan 2015 5:33 pm
 Sample : 20ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 17 9:37 2015

Vial: 6
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:37:17 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.67	96	787795	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.94	117	584168	50.00	ug/L	0.02
67) 1,4-Dichlorobenzene-d4 (IS)	8.92	152	270006	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.13	113	230570	52.46	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	104.92%
27) 1,2-Dichloroethane-d4 (SUR)	4.49	65	270485	54.63	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	109.26%
42) Toluene-d8 (SURR)	5.76	98	685285	53.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	107.12%
62) 4-Bromofluorobenzene (SURR)	7.94	95	305170	52.69	ug/L	0.02
Spiked Amount	50.000	Range	62 - 145	Recovery	=	105.38%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	214226m	28.01	ug/L	
3) Chloromethane	1.73	50	194904	23.55	ug/L #	79
4) Vinyl Chloride	1.72	62	169470m	22.59	ug/L	
5) Bromomethane	1.98	94	86876m	24.33	ug/L	
6) Chloroethane	2.08	64	72817	25.00	ug/L	93
7) Acrolein	3.14	56	89699	21.66	ug/L #	94
8) Trichlorofluoromethane	2.19	101	178116	25.42	ug/L #	82
9) Acetone	3.02	43	88450	52.12	ug/L	95
10) 1,1-Dichloroethene	2.57	61	216796	22.38	ug/L	99
11) Acrylonitrile	3.48	53	230643	22.09	ug/L	99
12) Iodomethane	2.67	142	172127	19.17	ug/L	100
13) Methylene Chloride	2.98	84	151971	21.64	ug/L	98
14) Carbon Disulfide	2.59	76	492934	22.93	ug/L	97
15) trans-1,2-Dichloroethene	3.08	96	129863	22.13	ug/L	99
16) Methyl-tert-butyl ether	3.16	73	279426	20.71	ug/L	99
17) 1,1-Dichloroethane	3.49	63	274624	22.50	ug/L	99
18) Vinyl Acetate	3.41	43	187639	20.83	ug/L #	100
19) N-Hexane	3.14	57	195882	20.97	ug/L	100
20) n-Butanol	3.65	57	106232	20.97	ug/L	99
21) 2-Butanone (MEK)	4.22	43	114660	53.10	ug/L	97
22) cis-1,2-Dichloroethene	3.84	61	197863	21.21	ug/L	95
23) Bromochloromethane	3.98	128	69117	21.60	ug/L #	98
24) Chloroform	4.02	83	263264	21.00	ug/L	99
25) 2,2-Dichloropropane	3.91	77	191593	21.56	ug/L #	91
28) 1,2-Dichloroethane	4.53	62	206446	21.91	ug/L	99
29) 1,1,1-Trichloroethane	4.16	97	206015	22.06	ug/L	98
30) 1,1-Dichloropropene	4.24	75	199910	21.83	ug/L	98
31) Carbon Tetrachloride	4.11	117	174713	22.24	ug/L	100
32) Benzene	4.40	78	535590	21.35	ug/L	99
33) Dibromomethane	5.08	93	88645	21.83	ug/L	99
34) 1,2-Dichloropropane	5.15	63	148309	21.85	ug/L	99
35) Trichloroethene	4.78	95	137301	21.87	ug/L	99
36) Bromodichloromethane	5.18	83	215495	21.31	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.15	63	148309	87.39	ug/L #	99
38) cis-1,3-Dichloropropene	5.62	75	252221	21.23	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	6.06	43	278157	54.57	ug/L	99
40) trans-1,3-Dichloropropene	6.09	75	225763	21.34	ug/L	99
41) 1,1,2-Trichloroethane	6.22	83	96733	21.18	ug/L	97
43) Toluene	5.79	91	524141	21.08	ug/L	99
44) Ethyl Methacrylate	5.27	69	84266	21.23	ug/L	97
45) 1,3-Dichloropropane	6.43	76	221318	21.31	ug/L	99
46) 2-Hexanone	6.70	43	205340	54.89	ug/L	100
48) Dibromochloromethane	6.35	129	142496	21.37	ug/L	98
49) 1,2-Dibromoethane (EDB)	6.55	107	118721	21.45	ug/L	98

(#) = qualifier out of range (m) = manual integration
 0601006.D 011615RC.M Wed Jan 21 10:57:09 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0601006.D
 Acq On : 16 Jan 2015 5:33 pm
 Sample : 20ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 17 9:37 2015

Vial: 6
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:37:17 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.08	166	141594	21.87	ug/L	97
51) 1,1,1,2-Tetrachloroethane	7.00	131	130752	21.82	ug/L	100
52) Chlorobenzene	6.96	112	349290	21.95	ug/L	98
53) Ethylbenzene	6.97	91	636771	21.76	ug/L	99
54) m,p-Xylene	7.08	91	968912	43.72	ug/L	99
55) Bromoform	7.51	173	81575	22.06	ug/L	98
56) Styrene	7.48	104	378486	21.32	ug/L	98
57) 1,1,2,2-Tetrachloroethane	8.10	83	147549	21.08	ug/L	97
58) o-Xylene	7.43	106	222856	21.82	ug/L	98
59) trans-1,4-Dichloro-2-buten	8.26	53	44010	20.88	ug/L	99
60) 1,2,3-Trichloropropane	8.23	75	183586	21.81	ug/L	99
61) Isopropylbenzene	7.69	105	584241	21.29	ug/L	99
63) Bromobenzene	8.04	156	132573	21.63	ug/L	98
64) N-propylbenzene	8.04	91	754987	21.75	ug/L	98
65) 2-Chlorotoluene	8.19	91	494327	21.91	ug/L	99
66) 4-Chlorotoluene	8.33	126	141349	21.89	ug/L	97
68) 1,3,5-Trimethylbenzene	8.21	105	465385	21.33	ug/L	98
69) tert-Butylbenzene	8.49	119	485375	21.67	ug/L	99
70) 1,2,4-Trimethylbenzene	8.55	105	480499	20.71	ug/L #	100
71) sec-Butylbenzene	8.65	105	645522	21.24	ug/L #	100
72) 1,3-Dichlorobenzene	8.86	146	259826	21.66	ug/L	99
73) 1,4-Dichlorobenzene	8.94	148	168063	21.94	ug/L	97
74) p-Isopropyltoluene	8.78	119	522727	21.41	ug/L	98
75) 1,2-Dichlorobenzene	9.33	146	241698	21.53	ug/L	99
76) n-Butylbenzene	9.16	91	545704	21.71	ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.07	155	18661	21.04	ug/L	95
78) 1,2,4-Trichlorobenzene	10.72	180	146541	21.20	ug/L	99
79) Naphthalene	11.04	128	324954	20.61	ug/L	99
80) Hexachloro-1,3-butadiene	10.69	225	80574	22.20	ug/L	100
81) 1,2,3-Trichlorobenzene	11.22	180	131501	21.04	ug/L	98
82) 1-methylnaphthalene	12.26	142	144112	21.86	ug/L	89
83) 2-methylnaphthalene	12.09	142	192830	21.84	ug/L	90

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0701007.D
 Acq On : 16 Jan 2015 5:53 pm
 Sample : 50ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 21 10:53 2015

Vial: 7
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:42:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.67	96	798096	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.94	117	601837	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.93	152	284135	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.14	113	235690	49.98	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	99.96%
27) 1,2-Dichloroethane-d4 (SUR)	4.49	65	267727	49.55	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	99.10%
42) Toluene-d8 (SURR)	5.75	98	701105	50.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	101.08%
62) 4-Bromofluorobenzene (SURR)	7.94	95	311566	49.42	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	98.84%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	587300m	53.43	ug/L	
3) Chloromethane	1.73	50	542421	54.25	ug/L	100
4) Vinyl Chloride	1.71	62	479499m	55.01	ug/L	
5) Bromomethane	1.98	94	233241	52.67	ug/L	100
6) Chloroethane	2.07	64	182365	53.82	ug/L	99
7) Acrolein	3.13	56	242404	53.82	ug/L	100
8) Trichlorofluoromethane	2.19	101	488215	57.15	ug/L	100
9) Acetone	3.02	43	229940	122.22	ug/L	100
10) 1,1-Dichloroethene	2.57	61	606356	53.91	ug/L	100
11) Acrylonitrile	3.48	53	650120	54.38	ug/L	100
12) Iodomethane	2.67	142	567199	54.26	ug/L	100
13) Methylene Chloride	2.97	84	399679	49.66	ug/L	100
14) Carbon Disulfide	2.58	76	1376928	53.98	ug/L	100
15) trans-1,2-Dichloroethene	3.08	96	368822	54.25	ug/L	100
16) Methyl-tert-butyl ether	3.16	73	770905	51.94	ug/L	100
17) 1,1-Dichloroethane	3.50	63	758343	54.31	ug/L	100
18) Vinyl Acetate	3.40	43	515992	52.42	ug/L	# 100
19) N-Hexane	3.13	57	535969	52.74	ug/L	100
20) n-Butanol	3.64	57	289932	52.88	ug/L	100
21) 2-Butanone (MEK)	4.22	43	328049	131.48	ug/L	100
22) cis-1,2-Dichloroethene	3.85	61	558662	54.42	ug/L	100
23) Bromochloromethane	3.98	128	192088	52.96	ug/L	# 100
24) Chloroform	4.01	83	740381	52.19	ug/L	100
25) 2,2-Dichloropropane	3.91	77	584720	53.79	ug/L	100
28) 1,2-Dichloroethane	4.53	62	567885	52.74	ug/L	100
29) 1,1,1-Trichloroethane	4.16	97	584369	54.09	ug/L	100
30) 1,1-Dichloropropene	4.23	75	564982	54.00	ug/L	100
31) Carbon Tetrachloride	4.11	117	502583	54.61	ug/L	100
32) Benzene	4.40	78	1518662	53.45	ug/L	100
33) Dibromomethane	5.08	93	246308	53.24	ug/L	100
34) 1,2-Dichloropropane	5.14	63	413841	54.17	ug/L	100
35) Trichloroethene	4.78	95	389368	54.22	ug/L	100
36) Bromodichloromethane	5.18	83	608758	53.57	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.14	63	413841	216.69	ug/L	# 100
38) cis-1,3-Dichloropropene	5.62	75	706083	53.26	ug/L	100
39) 4-Methyl-2-Pentanone (MIBK)	6.06	43	766772	131.45	ug/L	100
40) trans-1,3-Dichloropropene	6.10	75	624861	52.76	ug/L	100
41) 1,1,2-Trichloroethane	6.22	83	268812	52.74	ug/L	100
43) Toluene	5.80	91	1451045	52.12	ug/L	100
44) Ethyl Methacrylate	5.27	69	239066	53.07	ug/L	100
45) 1,3-Dichloropropane	6.43	76	609699	52.33	ug/L	100
46) 2-Hexanone	6.69	43	555828	130.77	ug/L	100
48) Dibromochloromethane	6.36	129	410407	52.78	ug/L	100
49) 1,2-Dibromoethane (EDB)	6.56	107	333577	51.58	ug/L	100

(#) = qualifier out of range (m) = manual integration
 0701007.D 011615RC.M Wed Jan 21 10:57:15 2015

VOCWIS

Quantitation Report (QT Reviewed)

Data File : C:\NPHCHEM\1\DATA\011615C\0701007.D
 Acq On : 16 Jan 2015 5:53 pm
 Sample : 50ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 21 10:53 2015

Vial: 7
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\NPHCHEM\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:42:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.08	166	404166	53.74	ug/L	100
51) 1,1,1,2-Tetrachloroethane	7.00	131	367236	52.98	ug/L	100
52) Chlorobenzene	6.96	112	977683	53.44	ug/L	100
53) Ethylbenzene	6.96	91	1788538	53.02	ug/L	100
54) m,p-Xylene	7.08	91	2753777	105.96	ug/L	100
55) Bromoform	7.51	173	229740	52.71	ug/L	100
56) Styrene	7.48	104	1076506	53.10	ug/L	100
57) 1,1,2,2-Tetrachloroethane	8.11	83	415783	51.91	ug/L	100
58) o-Xylene	7.44	106	615207	52.29	ug/L	100
59) trans-1,4-Dichloro-2-buten	8.26	53	128719	52.78	ug/L	100
60) 1,2,3-Trichloropropane	8.23	75	522866	53.78	ug/L #	100
61) Isopropylbenzene	7.69	105	1673572	52.81	ug/L	100
63) Bromobenzene	8.04	156	372125	52.81	ug/L	100
64) N-propylbenzene	8.05	91	2162232	53.31	ug/L	100
65) 2-Chlorotoluene	8.19	91	1389464	53.12	ug/L	100
66) 4-Chlorotoluene	8.34	126	405446	53.46	ug/L	100
68) 1,3,5-Trimethylbenzene	8.21	105	1321179	52.41	ug/L	100
69) tort-Butylbenzene	8.49	119	1392833	52.83	ug/L	100
70) 1,2,4-Trimethylbenzene	8.56	105	1352224	51.00	ug/L #	100
71) sec-Butylbenzene	8.65	105	1874939	53.37	ug/L #	100
72) 1,3-Dichlorobenzene	8.86	146	752964	53.17	ug/L	100
73) 1,4-Dichlorobenzene	8.94	148	470745	52.17	ug/L	100
74) p-Isopropyltoluene	8.78	119	1514358	52.81	ug/L	100
75) 1,2-Dichlorobenzene	9.33	146	690648	52.56	ug/L	100
76) N-Butylbenzene	9.16	91	1573197	53.59	ug/L	100
77) 1,2-Dibromo-3-chloropropan	10.08	155	53949	51.43	ug/L	100
78) 1,2,4-Trichlorobenzene	10.72	180	426240	53.08	ug/L	100
79) Naphthalene	11.04	128	930175	52.03	ug/L	100
80) Hexachloro-1,3-butadiene	10.68	225	234895	53.30	ug/L	100
81) 1,2,3-Trichlorobenzene	11.22	180	373591	52.36	ug/L	100
82) 1-methylnaphthalene	12.26	142	417692	52.78	ug/L	100
83) 2-methylnaphthalene	12.09	142	565367	54.20	ug/L	100

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0801008.D
 Acq On : 16 Jan 2015 6:14 pm
 Sample : 100ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 17 9:38 2015

Vial: 8
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:38:27 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.67	96	796614	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.95	117	593401	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.93	152	283851	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.13	113	232567	50.81	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	101.62%
27) 1,2-Dichloroethane-d4 (SUR)	4.49	65	273218	52.63	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	105.26%
42) Toluene-d8 (SURR)	5.76	98	692620	51.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	103.18%
62) 4-Bromofluorobenzene (SURR)	7.94	95	311111	51.46	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	102.92%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	1144120m	123.69	ug/L	
3) Chloromethane	1.74	50	1049746	115.31	ug/L	97
4) Vinyl Chloride	1.71	62	913591m	112.88	ug/L	
5) Bromomethane	1.97	94	427869m	111.39	ug/L	
6) Chloroethane	2.07	64	332128	104.10	ug/L	93
7) Acrolein	3.13	56	470456	108.81	ug/L	97
8) Trichlorofluoromethane	2.18	101	791761	98.55	ug/L	89
9) Acetone	3.01	43	447368	242.08	ug/L	99
10) 1,1-Dichloroethene	2.56	61	1162129	111.26	ug/L	100
11) Acrylonitrile	3.47	53	1248402	111.28	ug/L	100
12) Iodomethane	2.66	142	1161026	126.13	ug/L	99
13) Methylene Chloride	2.98	84	763382	100.26	ug/L	90
14) Carbon Disulfide	2.58	76	2631058	111.81	ug/L	100
15) trans-1,2-Dichloroethene	3.08	96	708233	111.64	ug/L	99
16) Methyl-tert-butyl ether	3.16	73	1550746	109.15	ug/L	97
17) 1,1-Dichloroethane	3.49	63	1483390	113.20	ug/L	99
18) Vinyl Acetate	3.41	43	998065	105.61	ug/L	# 100
19) n-Hexane	3.13	57	1036435	106.00	ug/L	100
20) n-Butanol	3.64	57	556440	104.92	ug/L	99
21) 2-Butanone (MEK)	4.21	43	627558	267.91	ug/L	98
22) cis-1,2-Dichloroethene	3.84	61	1047898	106.80	ug/L	96
23) Bromochloromethane	3.97	128	379234	110.78	ug/L	# 100
24) Chloroform	4.02	83	1455271	108.90	ug/L	99
25) 2,2-Dichloropropane	3.92	77	1176960	122.57	ug/L	97
28) 1,2-Dichloroethane	4.54	62	1106707	109.22	ug/L	99
29) 1,1,1-Trichloroethane	4.16	97	1143520	113.61	ug/L	99
30) 1,1-Dichloropropene	4.24	75	1098747	111.78	ug/L	99
31) Carbon Tetrachloride	4.11	117	972826	113.98	ug/L	100
32) Benzene	4.40	78	2978551	110.95	ug/L	99
33) Dibromomethane	5.07	93	482776	110.70	ug/L	99
34) 1,2-Dichloropropane	5.15	63	792812	109.36	ug/L	96
35) Trichloroethene	4.78	95	757391	112.53	ug/L	100
36) Bromodichloromethane	5.18	83	1192653	110.61	ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.15	63	792812	437.45	ug/L	# 99
38) cis-1,3-Dichloropropene	5.62	75	1375822	108.98	ug/L	100
39) 4-Methyl-2-Pentanone (MIBK)	6.06	43	1470678	267.77	ug/L	100
40) trans-1,3-Dichloropropene	6.09	75	1211010	107.48	ug/L	100
41) 1,1,2-Trichloroethane	6.22	83	530575	109.62	ug/L	98
43) Toluene	5.79	91	2821940	106.79	ug/L	100
44) Ethyl Methacrylate	5.27	69	466471	109.65	ug/L	99
45) 1,3-Dichloropropane	6.44	76	1207505	109.13	ug/L	99
46) 2-Hexanone	6.70	43	1105381	276.01	ug/L	100
48) Dibromochloromethane	6.36	129	806535	111.96	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.55	107	659641	110.30	ug/L	99

(#) = qualifier out of range (m) = manual integration
 0801008.D 011615RC.M Wed Jan 21 10:57:22 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\0801008.D
 Acq On : 16 Jan 2015 6:14 pm
 Sample : 100ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Jan 17 9:38 2015

Vial: 8
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:38:27 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.08	166	782075	112.25	ug/L	99
51) 1,1,1,2-Tetrachloroethane	7.00	131	707694	109.48	ug/L	99
52) Chlorobenzene	6.96	112	1850821	108.04	ug/L	100
53) Ethylbenzene	6.97	91	3392417	107.48	ug/L	99
54) m,p-Xylene	7.08	91	5378970	225.02	ug/L	99
55) Bromoform	7.51	173	451166	111.82	ug/L	97
56) Styrene	7.48	104	2107754	111.14	ug/L	99
57) 1,1,2,2-Tetrachloroethane	8.10	83	812635	108.28	ug/L	98
58) o-Xylene	7.43	106	1190161	108.76	ug/L	98
59) trans-1,4-Dichloro-2-buten	8.26	53	249626	110.04	ug/L	100
60) 1,2,3-Trichloropropane	8.23	75	1019986	112.80	ug/L #	99
61) Isopropylbenzene	7.70	105	3298180	112.10	ug/L	99
63) Bromobenzene	8.04	156	720795	109.62	ug/L	100
64) n-propylbenzene	8.04	91	4211170	112.79	ug/L	99
65) 2-Chlorotoluene	8.19	91	2680522	110.22	ug/L	100
66) 4-Chlorotoluene	8.34	126	770502	110.01	ug/L	97
68) 1,3,5-Trimethylbenzene	8.21	105	2598811	108.39	ug/L	99
69) tert-Butylbenzene	8.50	119	2696168	108.50	ug/L	99
70) 1,2,4-Trimethylbenzene	8.56	105	2645935	104.10	ug/L #	99
71) sec-Butylbenzene	8.66	105	3685950	110.38	ug/L #	99
72) 1,3-Dichlorobenzene	8.86	146	1452483	108.77	ug/L	99
73) 1,4-Dichlorobenzene	8.94	148	925730	108.57	ug/L	99
74) p-Isopropyltoluene	8.78	119	2991333	110.54	ug/L	98
75) 1,3-Dichlorobenzene	9.33	146	1364173	109.60	ug/L	99
76) n-Butylbenzene	9.17	91	3034334	108.70	ug/L	100
77) 1,2-Dibromo-3-chloropropan	10.08	155	109299	110.86	ug/L	98
78) 1,2,4-Trichlorobenzene	10.72	180	818140	107.24	ug/L	100
79) Naphthalene	11.04	128	1801628	104.76	ug/L	100
80) Hexachloro-1,3-butadiene	10.69	225	457530	112.00	ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	732373	107.38	ug/L	99
82) 1-methylnaphthalene	12.26	142	782915	103.61	ug/L	98
83) 2-methylnaphthalene	12.09	142	1044529	104.32	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\1001010.D
 Acq On : 16 Jan 2015 6:55 pm
 Sample : 200ppb 8260 ical
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Jan 17 9:40 2015

Vial: 10
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:39:05 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.67	96	823151	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.95	117	598898	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.93	152	290779	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.14	113	239805	50.01	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	100.02%
27) 1,2-Dichloroethane-d4 (SUR)	4.49	65	272940	49.98	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	99.96%
42) Toluene-d8 (SURR)	5.76	98	712189	50.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	101.08%
62) 4-Bromofluorobenzene (SURR)	7.94	95	326018	52.76	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	105.52%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	2338657m	223.78	ug/L	
3) Chloromethane	1.73	50	2199524	223.77	ug/L	98
4) Vinyl Chloride	1.70	62	1869320m	216.70	ug/L	
5) Bromomethane	1.97	94	837337m	206.85	ug/L	
6) Chloroethane	2.07	64	589771m	172.47	ug/L	
7) Acrolein	3.14	56	928100	204.41	ug/L	99
8) Trichlorofluoromethane	2.18	101	1779154	211.46	ug/L	# 78
9) Acetone	3.02	43	915902	460.71	ug/L	97
10) 1,1-Dichloroethene	2.56	61	2353016	211.17	ug/L	99
11) Acrylonitrile	3.47	53	2548281	213.75	ug/L	99
12) Iodomethane	2.67	142	2492342	256.27	ug/L	98
13) Methylene Chloride	2.98	84	1558558	193.15	ug/L	92
14) Carbon Disulfide	2.58	76	5297331	210.07	ug/L	99
15) trans-1,2-Dichloroethene	3.09	96	1444960	213.74	ug/L	100
16) Methyl-tert-butyl ether	3.16	73	3236626	216.40	ug/L	93
17) 1,1-Dichloroethane	3.50	63	3026339	217.30	ug/L	100
18) Vinyl Acetate	3.41	43	2055877	206.36	ug/L	# 100
19) N-Hexane	3.14	57	2055729	200.41	ug/L	100
20) n-Butanol	3.64	57	1127145	202.68	ug/L	99
21) 2-Butanone (MEK)	4.22	43	1268635	507.58	ug/L	97
22) cis-1,2-Dichloroethene	3.84	61	2127697	205.82	ug/L	95
23) Bromochloromethane	3.98	128	785408	216.33	ug/L	# 100
24) Chloroform	4.02	83	3019314	213.40	ug/L	97
25) 2,2-Dichloropropane	3.92	77	2499017	243.71	ug/L	99
28) 1,2-Dichloroethane	4.54	62	2374718	221.06	ug/L	98
29) 1,1,1-Trichloroethane	4.16	97	2373709	221.48	ug/L	99
30) 1,1-Dichloropropene	4.24	75	2255098	216.24	ug/L	99
31) Carbon Tetrachloride	4.11	117	2009785	220.68	ug/L	99
32) Benzene	4.41	78	6259836	220.22	ug/L	97
33) Dibromomethane	5.08	93	993278	214.46	ug/L	98
34) 1,2-Dichloropropane	5.15	63	1599780	208.67	ug/L	97
35) Trichloroethene	4.78	95	1562147	218.24	ug/L	99
36) Bromodichloromethane	5.18	83	2498463	219.11	ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.15	63	1599780	834.69	ug/L	# 99
38) cis-1,3-Dichloropropene	5.62	75	2876861	215.95	ug/L	98
39) 4-Methyl-2-Pentanone (MIBK)	6.07	43	2905661	496.09	ug/L	99
40) trans-1,3-Dichloropropene	6.09	75	2507455	210.66	ug/L	99
41) 1,1,2-Trichloroethane	6.22	83	1085058	211.68	ug/L	99
43) Toluene	5.80	91	5949134	213.25	ug/L	99
44) Ethyl Methacrylate	5.27	69	972140	215.51	ug/L	100
45) 1,3-Dichloropropane	6.44	76	2521367	215.46	ug/L	98
46) 2-Hexanone	6.70	43	2265895	531.39	ug/L	99
48) Dibromochloromethane	6.36	129	1698963	227.19	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.55	107	1399578	225.71	ug/L	98

(#) = qualifier out of range (m) = manual integration
 1001010.D 011615RC.M Wed Jan 21 10:57:28 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011615C\1001010.D
 Acq On : 16 Jan 2015 6:55 pm
 Sample : 200ppb 8260 ical
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Jan 17 9:40 2015

Vial: 10
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Sat Jan 17 09:39:05 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.08	166	1644297	228.37	ug/L	99
51) 1,1,1,2-Tetrachloroethane	7.00	131	1482162	222.06	ug/L	99
52) Chlorobenzene	6.96	112	3791530	214.79	ug/L	98
53) Ethylbenzene	6.97	91	7026122	216.03	ug/L	97
54) m,p-Xylene	7.08	91	10497089	425.01	ug/L	99
55) Bromoform	7.51	173	956003	228.28	ug/L	98
56) Styrene	7.48	104	4392629	224.55	ug/L	98
57) 1,1,2,2-Tetrachloroethane	8.10	83	1694827	219.07	ug/L	99
58) o-Xylene	7.44	106	2456997	217.48	ug/L	96
59) trans-1,4-Dichloro-2-buten	8.26	53	522597	222.49	ug/L	100
60) 1,2,3-Trichloropropane	8.24	75	2094724	223.69	ug/L #	99
61) Isopropylbenzene	7.70	105	7012238	230.52	ug/L	97
63) Bromobenzene	8.04	156	1493356	220.10	ug/L	97
64) N-propylbenzene	8.05	91	8684188	224.56	ug/L	98
65) 2-Chlorotoluene	8.19	91	5611287	223.29	ug/L	99
66) 4-Chlorotoluene	8.34	126	1614048	222.38	ug/L	96
68) 1,3,5-Trimethylbenzene	8.21	105	5407594	215.72	ug/L	98
69) tert-Butylbenzene	8.50	119	5638371	216.43	ug/L	99
70) 1,3,4-Trimethylbenzene	8.56	105	5510836	208.09	ug/L #	99
71) sec-Butylbenzene	8.66	105	7745894	222.37	ug/L #	98
72) 1,3-Dichlorobenzene	8.87	146	3065755	218.75	ug/L	99
73) 1,4-Dichlorobenzene	8.94	148	1908492	213.53	ug/L	98
74) p-Isopropyltoluene	8.78	119	6249138	220.17	ug/L	97
75) 1,2-Dichlorobenzene	9.33	146	2841761	218.00	ug/L	98
76) N-Butylbenzene	9.17	91	6363289	218.12	ug/L	98
77) 1,2-Dibromo-3-chloropropan	10.08	155	227561	218.86	ug/L	98
78) 1,3,4-Trichlorobenzene	10.73	180	1676210	209.60	ug/L	99
79) Naphthalene	11.05	128	3764047	210.16	ug/L	100
80) Hexachloro-1,3-butadiene	10.69	225	945844	218.75	ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	1506501	211.66	ug/L	99
82) 1-methylnaphthalene	12.26	142	1621566m	206.44	ug/L	
83) 2-methylnaphthalene	12.09	142	2031160m	194.88	ug/L	

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011615C\1201012.D
 Acq On : 16 Jan 2015 7:36 pm
 Sample : 50ppb 3260 icv/lcs
 Misc : qc
 MS Integration Params: rteint.p

Vial: 12
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Wed Jan 21 10:54:54 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene (IS)	1.000	1.000	0.0	96	0.00
2 T Dichlorodifluoromethane	0.689	0.742	-7.7	98	0.00
3 T Chloromethane	0.626	0.680	-8.6	96	0.00
4 T Vinyl Chloride	0.552	0.600	-8.7	96	0.00
5 T Bromomethane	0.277	0.292	-5.4	96	0.00
6 T Chloroethane	0.212	0.241	-13.7	102	0.00
7 T Acrolein	0.282	0.310	-9.9	98	0.00
8 T Trichlorofluoromethane	0.535	0.612	-14.4	96	0.00
9 T Acetone	0.118	0.127	-7.6	106	0.00
10 T 1,1-Dichloroethene	0.705	0.769	-9.1	97	0.00
11 T Acrylonitrile	0.749	0.812	-8.4	96	0.00
12 T Iodomethane	0.655	0.712	-8.7	96	0.00
13 T Methylene Chloride	0.504	0.524	-4.0	101	0.00
14 T Carbon Disulfide	1.598	1.746	-9.3	97	0.00
15 T trans-1,2-Dichloroethene	0.426	0.472	-10.8	98	0.00
16 T Methyl-tert-butyl ether	0.930	1.023	-10.0	102	0.00
17 T 1,1-Dichloroethane	0.875	0.984	-12.5	100	0.00
18 T Vinyl Acetate	0.617	0.670	-8.6	100	0.00
19 T N-Hexane	0.637	0.686	-7.7	98	0.00
20 n-Butanol	0.343	0.379	-10.5	100	0.00
21 T 2-Butanone (MEK)	0.156	0.175	-12.2	102	0.00
22 T cis-1,2-Dichloroethene	0.643	0.699	-8.7	96	0.00
23 T Bromochloromethane	0.227	0.251	-10.6	100	0.00
24 T Chloroform	0.889	0.954	-7.3	99	0.00
25 T 2,2-Dichloropropane	0.681	0.730	-7.2	96	0.00
26 S Dibromofluoromethane (SURR)	0.295	0.297	-0.7	97	0.00
27 S 1,2-Dichloroethane-d4 (SURR)	0.338	0.334	1.2	96	0.00
28 T 1,2-Dichloroethane	0.675	0.740	-9.6	100	0.00
29 T 1,1,1-Trichloroethane	0.677	0.735	-8.6	96	0.00
30 T 1,1-Dichloropropene	0.655	0.712	-8.7	97	0.00
31 T Carbon Tetrachloride	0.577	0.639	-10.7	98	0.00
32 T Benzene	1.780	1.950	-9.6	99	0.00
33 T Dibromomethane	0.290	0.319	-10.0	99	0.00
34 T 1,2-Dichloropropane	0.479	0.526	-9.8	98	0.00
35 T Trichloroethene	0.450	0.501	-11.3	99	0.00
36 T Bromodichloromethane	0.712	0.777	-9.1	98	0.00
37 T 2-Chloroethyl-vinyl-ether	0.120	0.131	-9.2	98	0.00
38 T cis-1,3-Dichloropropene	0.831	0.913	-9.9	99	0.00
39 T 4-Methyl-2-Pentanone (MIBK)	0.365	0.414	-13.4	104	0.00
40 T trans-1,3-Dichloropropene	0.742	0.809	-9.0	99	0.00
41 T 1,1,1,2-Trichloroethane	0.319	0.356	-11.6	102	0.00
42 S Toluene-d8 (SURR)	0.869	0.855	1.6	94	0.00
43 T Toluene	1.744	1.860	-6.7	98	0.00
44 T Ethyl Methacrylate	0.282	0.314	-11.3	101	0.00
45 T 1,3-Dichloropropane	0.730	0.807	-10.5	102	0.00
46 T 2-Hexanone	0.266	0.254	4.5	105	0.00
47 I Chlorobenzene-d5 (IS)	1.000	1.000	0.0	96	0.00
48 T Dibromochloromethane	0.646	0.699	-8.2	98	0.00
49 T 1,2-Dibromoethane (EDB)	0.537	0.589	-9.7	102	0.00
50 T Tetrachloroethene	0.625	0.731	-17.0	104	0.00
51 T 1,1,1,2-Tetrachloroethane	0.576	0.617	-7.1	97	0.00
52 T Chlorobenzene	1.520	1.660	-9.2	98	0.00
53 T Ethylbenzene	2.803	3.009	-7.3	97	0.00
54 T m,p-Xylene	2.159	2.317	-7.3	97	0.00
55 T Bromoform	0.362	0.393	-8.6	99	0.00
56 T Styrene	1.684	1.834	-8.9	98	0.00
57 T 1,1,1,2-Tetrachloroethane	0.665	0.736	-10.7	102	0.00
58 T o-Xylene	0.977	1.047	-7.2	98	0.00
59 T trans-1,4-Dichloro-2-butene	0.203	0.224	-10.3	100	0.00
60 T 1,2,3-Trichloropropane	0.808	0.932	-15.3	103	0.00
61 T Isopropylbenzene	2.633	2.805	-6.5	96	0.00

62	S	4-Bromofluorobenzene (SURR)	0.524	0.514	1.9	95	0.00
63	T	Bromobenzene	0.585	0.638	-9.1	99	0.00
64	T	N-propylbenzene	3.370	3.653	-8.4	97	0.00
65	T	2-Chlorotoluene	2.173	2.368	-9.0	98	0.00
66	T	4-Chlorotoluene	0.630	0.673	-6.8	96	0.00
67	I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	95	0.00
68	T	1,3,5-Trimethylbenzene	4.436	4.843	-9.2	99	0.00
69	T	tert-Butylbenzene	4.640	4.948	-6.6	96	0.00
70	T	1,2,4-Trimethylbenzene	4.666	4.890	-4.8	97	0.00
71	T	sec-Butylbenzene	6.182	6.765	-9.4	97	0.00
72	T	1,3-Dichlorobenzene	2.492	2.725	-9.3	97	0.00
73	T	1,4-Dichlorobenzene	1.588	1.722	-8.4	99	0.00
74	T	p-Isopropyltoluene	5.047	5.488	-8.7	98	0.00
75	T	1,2-Dichlorobenzene	2.312	2.569	-11.1	100	0.00
76	T	N-Butylbenzene	5.166	5.650	-9.4	97	0.00
77	T	1,2-Dibromo-3-chloropropane	0.185	0.204	-10.3	102	0.00
78	T	1,2,4-Trichlorobenzene	1.413	1.543	-9.2	98	0.00
79	T	Naphthalene	3.341	3.544	-6.1	103	0.00
80	T	Hexachloro-1,3-butadiene	0.776	0.869	-12.0	100	0.00
81	T	1,2,3-Trichlorobenzene	1.256	1.415	-12.7	102	0.00
82		1-methylnaphthalene	1.393	1.653	-18.7	107	0.00
83		2-methylnaphthalene	1.836	2.186	-19.1	104	0.00

(#) = Out of Range
0701007.D 011615RC.M

SPCC's out = 0 CCC's out = 0
Wed Jan 21 10:57:35 2015 VOCWTS

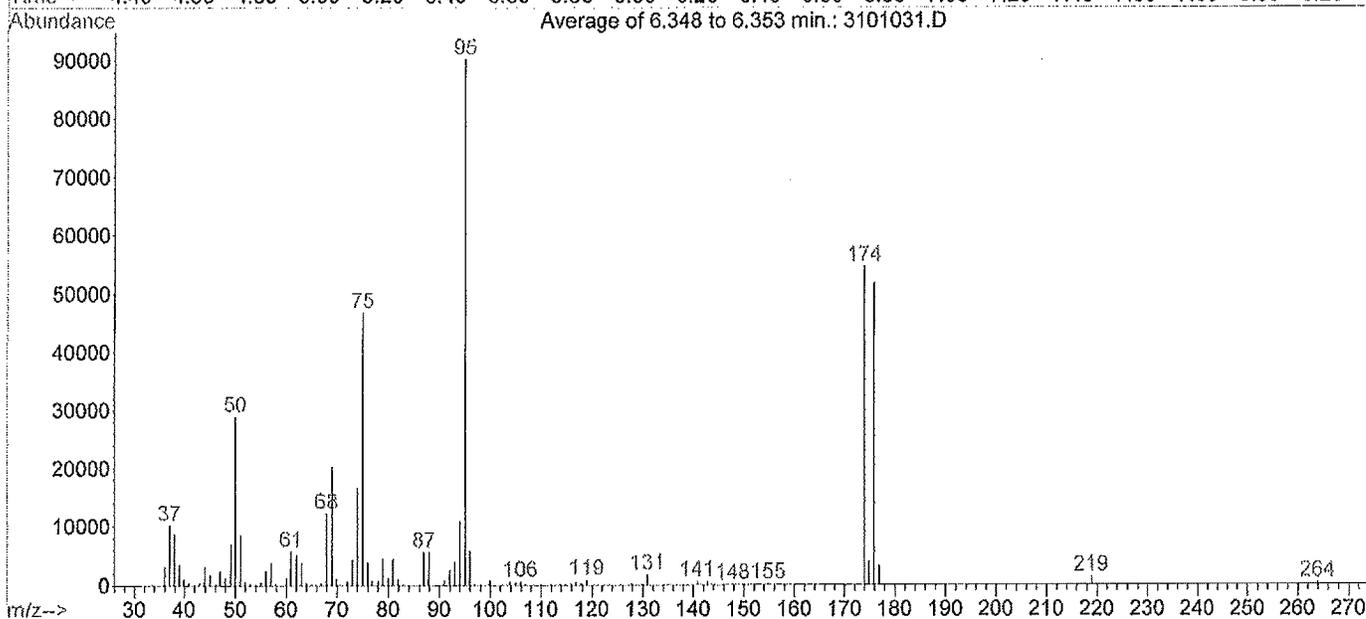
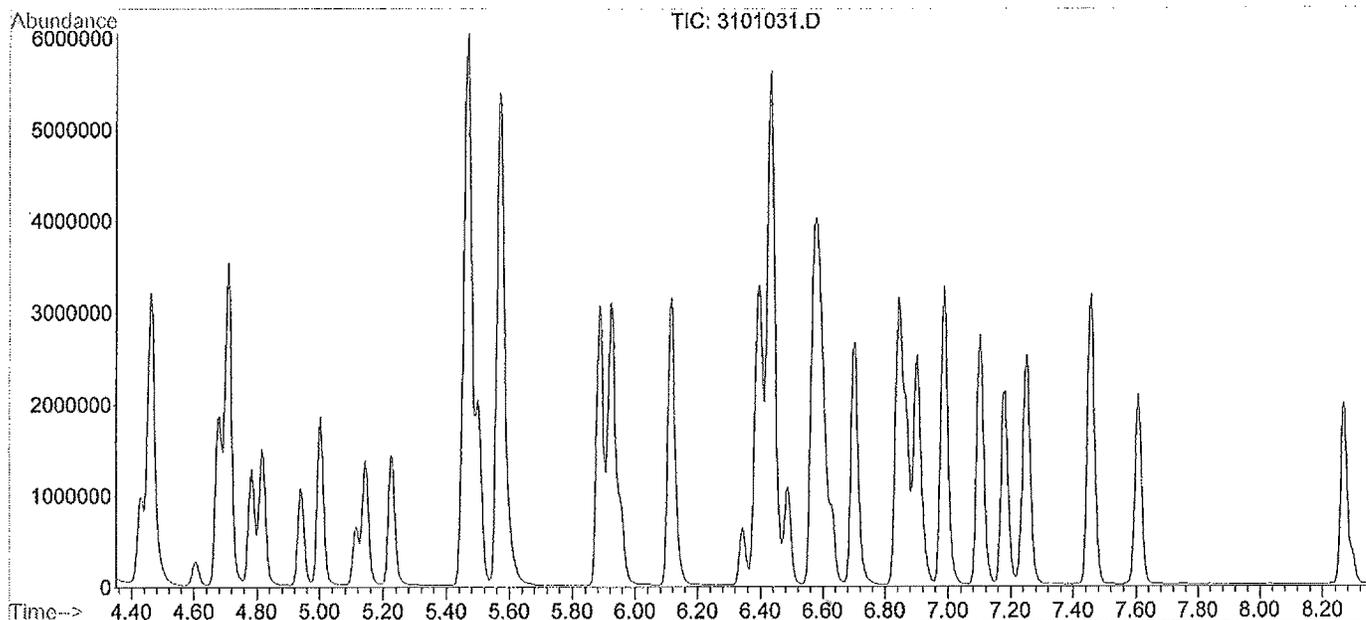


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1439 Sadlier Circle West Drive
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8260 VOC Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Data File : C:\HPCHEM\1\DATA\013015C\3101031.D Vial: 31
 Acq On : 31 Jan 2015 12:25 am Operator: gjd
 Sample : BFB/CCV 50ppb Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration



Spectrum Information: Average of 6.348 to 6.353 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.1	28952	PASS
75	95	30	60	51.8	46780	PASS
95	95	100	100	100.0	90232	PASS
96	95	5	9	6.5	5852	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	60.5	54600	PASS
175	174	5	9	7.4	4014	PASS
176	174	95	100	95.0	51876	PASS
177	176	5	9	6.2	3238	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\013015C\3101031.D
 Acq On : 31 Jan 2015 12:25 am
 Sample : BFB/CCV 50ppb
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p

Vial: 31
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Fluorobenzene (IS)	1.000	1.000	0.0	95	0.02
2	Dichlorodifluoromethane	0.957	1.007	-5.2	98	0.01
3	Chloromethane	0.997	1.056	-5.9	98	0.01
4 m	Vinyl Chloride*	0.812	0.856	-5.4	97	0.01
5	Bromomethane	0.333	0.390	-17.1	113	0.01
6	Chloroethane	0.274	0.321	-17.2	107	0.01
7	Acrolein	0.635	0.662	-4.3	95	0.02
8	Trichlorofluoromethane	0.843	1.015	-20.4	107	0.01
9	Acetone	0.198	0.149	24.7	86	0.01
10 m	1,1-Dichloroethene*	1.116	1.263	-13.2	102	0.02
11	Acrylonitrile	1.826	2.211	-21.1	117	0.02
12	Iodomethane	0.621	0.675	-8.7	96	0.01
13	Methylene Chloride	0.731	0.648	11.4	100	0.02
14	Carbon Disulfide	1.601	1.760	-9.9	100	0.02
15 m	trans-1,2-Dichloroethene*	0.523	0.563	-7.6	98	0.02
16 m	Methyl-tert-butyl ether* (M	1.409	1.374	2.5	92	0.01
17 m	1,1-Dichloroethane*	1.923	2.106	-9.5	102	0.02
18	Vinyl Acetate	0.652	0.673	-3.2	97	0.02
19	N-Hexane	1.265	1.305	-3.2	94	0.01
20	N-Butanol	0.836	0.863	-3.2	96	0.02
21	2-Butanone (MEK)	0.435	0.406	6.7	88	0.02
22 m	cis-1,2-Dichloroethene*	1.536	1.730	-12.6	103	0.02
23	Bromochloromethane	0.356	0.379	-6.5	96	0.02
24 m	Chloroform*	1.703	1.822	-7.0	98	0.02
25	2-2-Dichloropropane	1.448	1.541	-6.4	96	0.02
26 s	Dibromofluoromethane (SURR)	0.290	0.297	-2.4	98	0.01
27 s	1,2-Dichloroethane-d4 (SURR)	0.351	0.321	8.5	80	-0.03
28	1,2-Dichloroethane	1.253	1.319	-5.3	97	0.01
29 m	1,1,1-Trichloroethane*	1.296	1.387	-7.0	96	0.02
30	1,1-Dichloropropene	1.269	1.393	-9.8	96	0.02
31	Carbon Tetrachloride	1.190	1.307	-9.8	97	0.01
32 m	Benzene*	3.471	3.740	-7.7	97	0.02
33	Dibromomethane	0.612	0.624	-2.0	93	0.02
34	1,2-Dichloropropane	1.102	1.233	-11.9	100	0.02
35 m	Trichloroethene*	0.949	1.048	-10.4	101	0.02
36	Bromodichloromethane	1.335	1.476	-10.6	99	0.02
37	2-Chloroethyl-vinyl ether	0.017	0.014	17.6	92	0.02
38	cis-1,3-Dichloropropene	1.596	1.685	-5.6	96	0.02
39	4-Methyl-2-Pentanone (MIBK)	1.134	1.127	0.6	93	0.02
40	trans-1,3-Dichloropene	1.264	1.307	-3.4	93	0.02
41	1,1,2-Trichloroethane	0.680	0.720	-5.9	95	0.02
42 s	Toluene-d8 (SURR)	0.875	1.006	-15.0	97	0.02
43 m	Toluene*	3.672	3.907	-6.4	98	0.02
44	Ethyl Methacrylate	0.890	0.890	0.0	90	0.02
45	1,3-Dichloropropane	1.300	1.372	-5.5	96	0.02
46	2-Hexanone	0.853	0.865	-1.4	96	0.02
47	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	104	0.02
48	Dibromochloromethane	1.158	1.085	6.3	92	0.02
49	1,2-Dibromoethane (EDB)	1.073	0.995	7.3	94	0.02
50	Tetrachloroethene	1.111	1.090	1.9	97	0.02
51 m	1,1,1,2-Tetrachloroethane*	0.952	0.913	4.1	94	0.02
52 m	Chlorobenzene*	3.000	3.033	-1.1	97	0.02
53 m	Ethyl Benzene*	5.938	6.075	-2.3	101	0.02
54	m,p-Xylene	4.394	4.423	-0.7	98	0.02
55	Bromoform	0.589	0.534	9.3	89	0.02
56	Styrene	3.323	3.331	-0.2	98	0.02
57	1,1,2,2-Tetrachloroethane	0.951	0.874	8.1	91	0.02

(#) = Out of Range

3101031.D 013015RC.M

Thu Feb 05 11:22:24 2015

GARY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\013015C\3101031.D Vial: 31
 Acq On : 31 Jan 2015 12:25 am Operator: gjd
 Sample : BFB/CCV 50ppb Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 m	o-Xylene*	1.995	1.947	2.4	95	0.02
59	trans-1,4-Dichloro-2-butene	0.449	0.400	10.9	89	0.02
60	1,2,3-Trichloropropane	1.532	1.480	3.4	93	0.01
61	Isopropylbenzene	5.134	5.208	-1.4	96	0.02
62 s	4-Bromofluorobenzene (SURR)	0.525	0.534	-1.7	93	0.02
63	Bromobenzene	1.031	1.048	-1.6	95	0.02
64 m	N-Propylbenzene*	7.129	7.450	-4.5	99	0.02
65	2-Chlorotoluene	4.348	4.632	-6.5	119	0.02
66	4-Chlorotoluene	1.031	0.996	3.4	94	0.02
67	1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	91	0.02
68	1,3,5-Trimethylbenzene	10.307	12.094	-17.3	99	0.02
69	tert-butylbenzene	9.922	11.344	-14.3	96	0.02
70	1,2,4-Trimethylbenzene	9.967	11.098	-11.3	93	0.02
71	sec-Butylbenzene	14.432	17.231	-19.4	97	0.02
72	1,3-Dichlorobenzene	4.617	5.028	-8.9	92	0.07
73	1,4-Dichlorobenzene	2.960	3.210	-8.4	93	-0.05
74	p-Isopropyltoluene	9.866	11.338	-14.9	96	0.02
75	1,2-Dichlorobenzene	4.370	4.623	-5.8	89	0.02
76	N-Butylbenzene	12.992	14.847	-14.3	92	0.02
77	1,2-Dibromo-3-chloropropane	0.281	0.255	9.3	79	0.02
78	1,2,4-Trichlorobenzene	2.108	1.988	5.7	78	0.02
79	Naphthalene	3.314	2.972	10.3	76	0.02
80	Hexachloro-1,3-butadiene	1.576	1.501	4.8	84	0.02
81	1,2,3-Trichlorobenzene	1.750	1.627	7.0	79	0.02
82	1-Methylnaphthalene	0.745	0.703	5.6	84	-0.05
83	2-Methylnaphthalene	0.975	0.915	6.2	90	0.02

Data File : C:\HPCHEM\1\DATA\013015C\3101031.D
 Acq On : 31 Jan 2015 12:25 am
 Sample : BFB/CCV 50ppb
 Misc : 010715 VOCl curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:33 2015

Vial: 31
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:33:02 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	485701	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.46	117	354903m	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.24	152	117149	50.00	ppb	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.14	113	144412	51.34	ppb	0.01
Spiked Amount	50.000	Range	54 - 140	Recovery	=	102.68%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	156051	45.74	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	91.48%
42) Toluene-d8 (SURR)	4.43	98	488762	57.48	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	114.96%
62) 4-Bromofluorobenzene (SURR)	6.34	95	189598	50.89	ppb	0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	101.78%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.43	85	489054	52.61	ppb	100
3) Chloromethane	1.55	50	512902	52.99	ppb	# 95
4) Vinyl Chloride*	1.58	62	415544	52.71	ppb	99
5) Bromomethane	1.75	94	189472	59.46	ppb	# 98
6) Chloroethane	1.80	64	156104	58.66	ppb	98
7) Acrolein	2.44	56	321635	52.17	ppb	99
8) Trichlorofluoromethane	1.87	101	492755	60.19	ppb	100
9) Acetone	2.37	43	180666	93.78	ppb	99
10) 1,1-Dichloroethene*	2.10	61	613440	56.61	ppb	98
11) Acrylonitrile	2.68	53	1074065	60.57	ppb	93
12) Iodomethane	2.17	142	327734	54.36	ppb	100
13) Methylene Chloride	2.35	84	314955	44.38	ppb	98
14) Carbon Disulfide	2.13	76	854924	54.98	ppb	# 100
15) trans-1,2-Dichloroethene*	2.42	96	273229	53.80	ppb	100
16) Methyl-tert-butyl ether* (	2.45	73	667474	48.76	ppb	98
17) 1,1-Dichloroethane*	2.70	63	1022994	54.75	ppb	99
18) Vinyl Acetate	2.78	43	327116	51.63	ppb	# 100
19) N-Hexane	2.44	57	634046	51.59	ppb	99
20) N-Butanol	2.77	57	419173	51.64	ppb	# 97
21) 2-Butanone (MEK)	3.20	43	492593	116.46	ppb	99
22) cis-1,2-Dichloroethene*	2.94	61	840305	56.33	ppb	98
23) Bromochloromethane	3.03	128	184121	53.30	ppb	96
24) Chloroform*	3.06	83	884926	53.48	ppb	100
25) 2-2-Dichloropropane	2.99	77	748224	53.21	ppb	99
28) 1,2-Dichloroethane	3.45	62	640474	52.62	ppb	99
29) 1,1,1-Trichloroethane*	3.17	97	673798	53.54	ppb	99
30) 1,1-Dichloropropene	3.23	75	676353	54.85	ppb	99
31) Carbon Tetrachloride	3.14	117	634701	54.91	ppb	100
32) Benzene*	3.35	78	1816489	53.88	ppb	100
33) Dibromomethane	3.88	93	303079	51.01	ppb	98
34) 1,2-Dichloropropane	3.93	63	598700	55.91	ppb	100
35) Trichloroethene*	3.64	95	508794	55.20	ppb	99
36) Bromodichloromethane	3.95	83	717044	55.31	ppb	100
37) 2-Chloroethyl-vinyl ether	4.25	63	27623	171.22	ppb	99
38) cis-1,3-Dichloropropene	4.31	75	818544	52.81	ppb	98
39) 4-Methyl-2-Pentanone (MIBK)	4.68	43	1367888	124.22	ppb	99
40) trans-1,3-Dichloropene	4.71	75	634937	51.73	ppb	# 77
41) 1,1,2-Trichloroethane	4.82	83	349604	52.91	ppb	99
43) Toluene*	4.46	91	1897638	53.20	ppb	100
44) Ethyl Methacrylate	4.78	69	432072	49.95	ppb	98
45) 1,3-Dichloropropane	5.00	76	666152	52.74	ppb	100
46) 2-Hexanone	5.22	43	1050569	126.77	ppb	98
48) Dibromochloromethane	4.94	129	385077	46.87	ppb	100
49) 1,2-Dibromoethane (EDB)	5.12	107	353250	46.40	ppb	100

Data File : C:\HPCHEM\1\DATA\013015C\3101031.D

Vial: 31

Acq On : 31 Jan 2015 12:25 am

Operator: gjd

Sample : BFB/CCV 50ppb

Inst : VOC 1

Misc : 010715 VOC1 curve, 8260 ical

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 3 19:33 2015

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)

Title : 8260 Volatile Soil Calibration

Last Update : Tue Feb 03 19:33:02 2015

Response via : Initial Calibration

DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.71	166	386881	49.04	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.50	131	323881	47.95	ppb	99
52) Chlorobenzene*	5.47	112	1076341	50.54	ppb	98
53) Ethyl Benzene*	5.47	91	2156191	51.15	ppb	99
54) m,p-Xylene	5.57	91	3139575	100.65	ppb	99
55) Bromoform	5.96	173	189387	45.33	ppb	# 99
56) Styrene	5.92	104	1182147	50.12	ppb	99
57) 1,1,2,2-Tetrachloroethane	6.49	85	310321	45.98	ppb	100
58) o-Xylene*	5.89	106	690990	48.80	ppb	98
59) trans-1,4-Dichloro-2-buten	6.63	53	141972	44.59	ppb	98
60) 1,2,3-Trichloropropane	6.60	75	525188m	65.28	ppb	
61) Isopropylbenzene	6.12	105	1848191	50.72	ppb	99
63) Bromobenzene	6.43	156	372064	50.83	ppb	94
64) N-Propylbenzene*	6.43	91	2644085	52.25	ppb	100
65) 2-Chlorotoluene	6.57	91	1643864	53.27	ppb	98
66) 4-Chlorotoluene	6.70	126	353472	48.28	ppb	97
68) 1,3,5-Trimethylbenzene	6.58	105	1416810	58.67	ppb	100
69) tert-butylbenzene	6.84	119	1328901	57.17	ppb	99
70) 1,2,4-Trimethylbenzene	6.90	105	1300109	55.67	ppb	99
71) sec-Butylbenzene	6.99	105	2018548	59.69	ppb	100
72) 1,3-Dichlorobenzene	7.25	146	588992	54.45	ppb	99
73) 1,4-Dichlorobenzene	7.25	148	376089	54.23	ppb	99
74) p-Isopropyltoluene	7.10	119	1328259	57.46	ppb	99
75) 1,2-Dichlorobenzene	7.61	146	541587	52.90	ppb	100
76) N-Butylbenzene	7.46	91	1739332	57.14	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.30	155	29869	45.38	ppb	91
78) 1,2,4-Trichlorobenzene	8.89	180	232876	47.14	ppb	99
79) Naphthalene	9.18	128	348118	44.84	ppb	100
80) Hexachloro-1,3-butadiene	8.85	225	175893	47.64	ppb	100
81) 1,2,3-Trichlorobenzene	9.35	180	190546	46.48	ppb	99
82) 1-Methylnaphthalene	10.29	142	82310	47.17	ppb	100
83) 2-Methylnaphthalene	10.14	142	107195	46.94	ppb	97

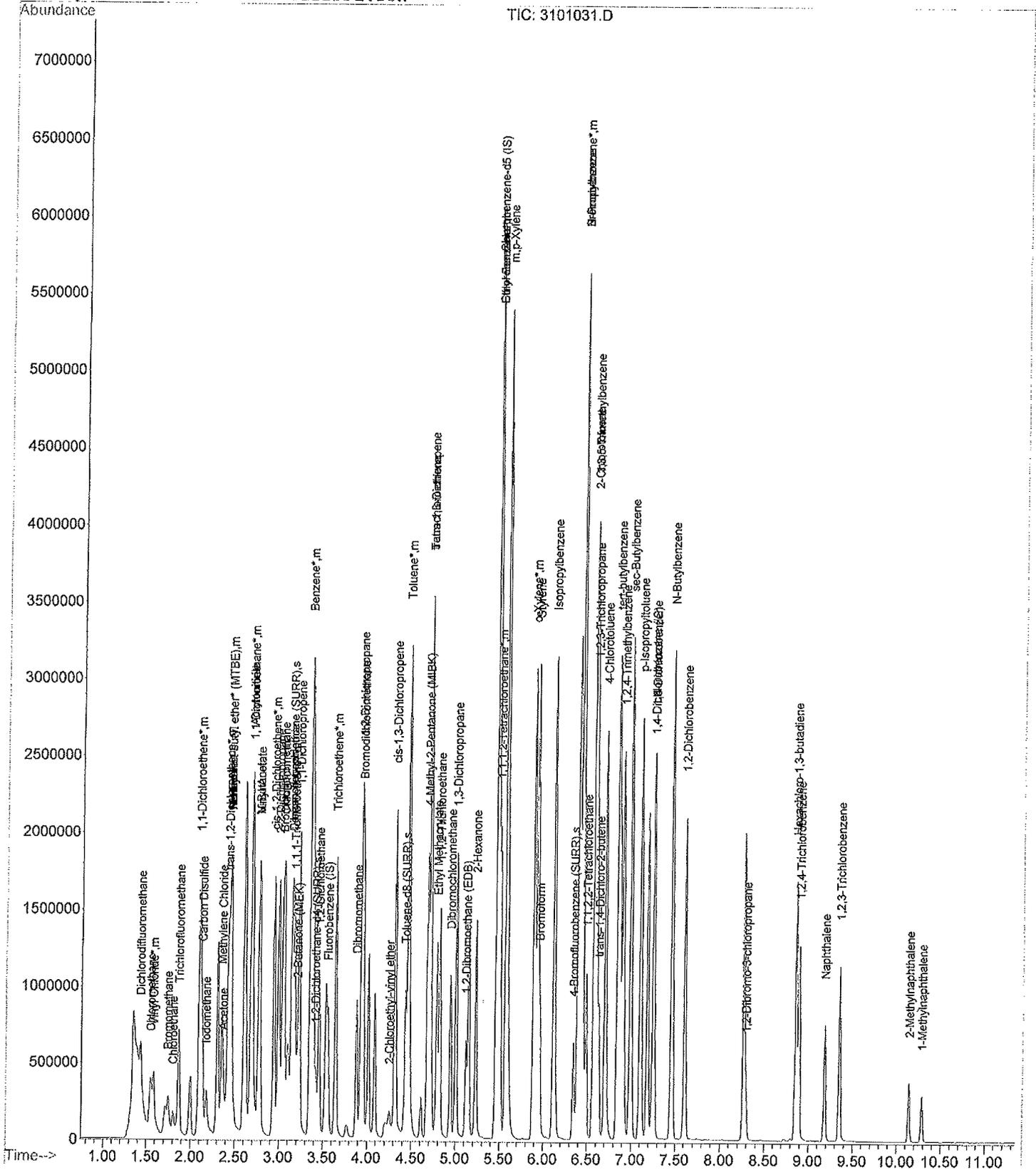
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\3101031.D
 Acq On : 31 Jan 2015 12:25 am
 Sample : BFB/CCV 50ppb
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:33 2015

Vial: 31
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\013015C\3101031.D

Tune Time : 31 Jan 2015 12:25 am

Daily Calibration File : C:\HPCHEM\1\DATA\013015C\3101031.D

File	Sample	Surrogate Recovery %						Internal Standard Responses		
		101	105	97	93	501045	326419	119794		
3201032.D	LCS 50p	101	105	97	93	501045	326419	119794		
3301033.D	MB	105	98	106	107	547530	344885	101387		
4101041.D	1333	111	112	90	83	316596	133938	13771		
4201042.D	1333ms	89	103	91	95	412785	189803	22108		
4301043.D	1333msd	90	98	99	98	421191	177861	32038		
4401044.D	1334	106	101	102	94	371861	195313	33179		
4501045.D	1335	113	103	111	88	334563	175503	23138		
4601046.D	1336	103	97	100	98	374658	194038	44309		
4801048.D	1337	102	93	103	97	377135	203611	40736		
4901049.D	1338	100	91	106	100	394778	218646	43884		
5001050.D	1339	107	103	96	88	350957	164911	26627		
5101051.D	1340	100	96	101	92	369224	187628	33504		
5201052.D	1341	103	103	89	99	385461	188120	37444		
5301053.D	1342	102	97	98	95	371568	185657	39222		

t - fails 12hr time check * - fails criteria

Created: Thu Feb 05 11:18:59 2015 VOC 1

Data File : C:\HPCHEM\1\DATA\012915\3601036.D

Vial: 36

Acq On : 29 Jan 2015 11:25 pm

Operator: GJD

Sample : bfb/ccv 50ppb

Inst : GC/MS #2

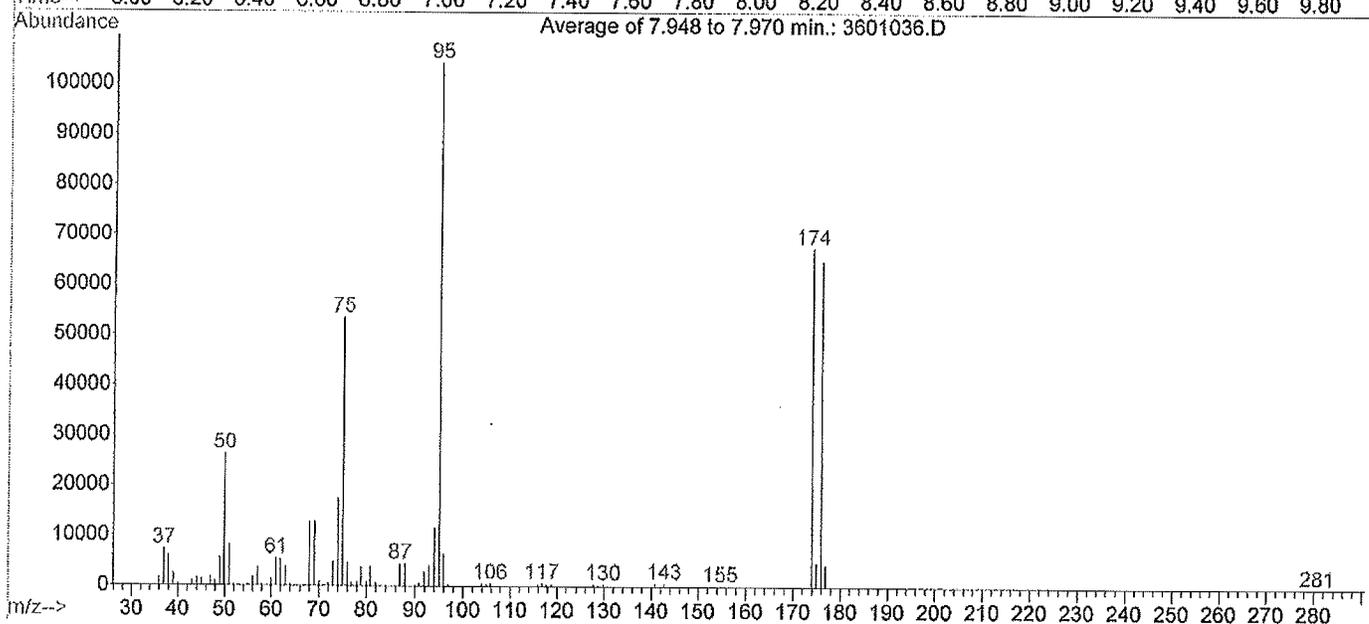
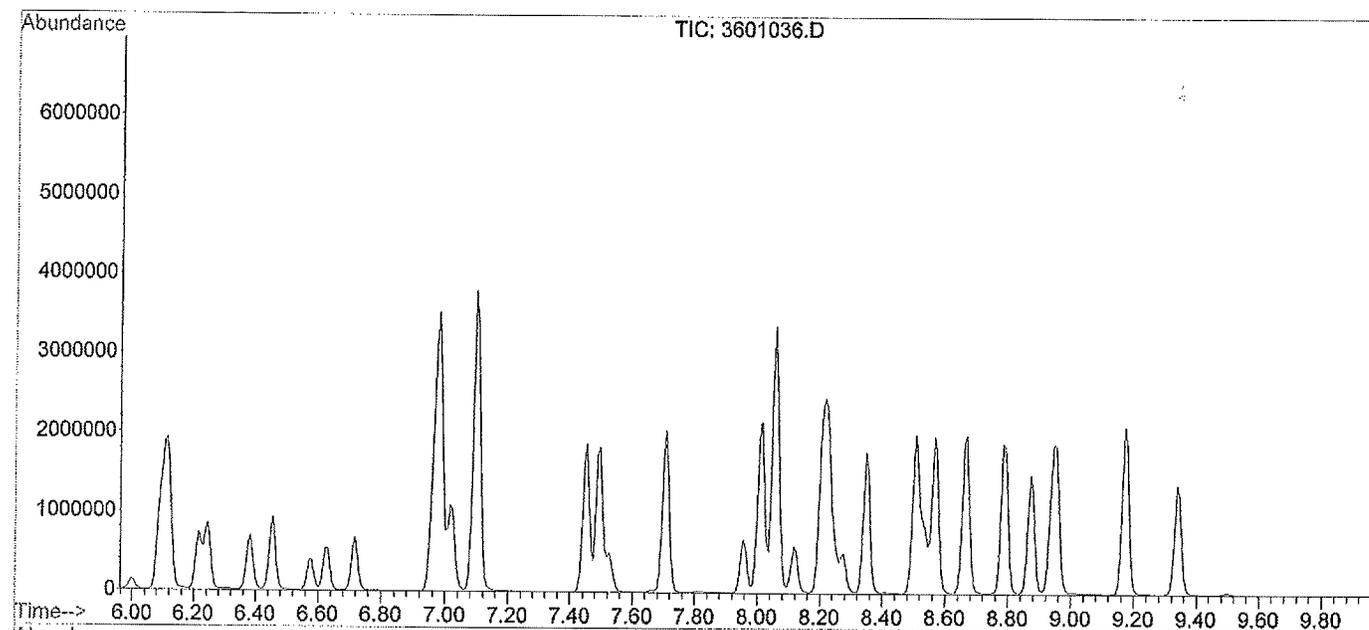
Misc : qc

Multiplr: 1.00

MS Integration Params: rteint.p

Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)

Title : 8260 voa analysis



Spectrum Information: Average of 7.948 to 7.970 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.2	26327	PASS
75	95	30	60	51.3	53504	PASS
95	95	100	100	100.0	104284	PASS
96	95	5	9	6.2	6446	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.8	67572	PASS
175	174	5	9	7.1	4809	PASS
176	174	95	100	96.2	65000	PASS
177	176	5	9	6.7	4385	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\012915\3601036.D
 Acq On : 29 Jan 2015 11:25 pm
 Sample : bfb/ccv 50ppb
 Misc : qc
 MS Integration Params: rteint.p

Vial: 36
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Wed Jan 21 10:54:54 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene (IS)	1.000	1.000	0.0	72	0.05
2 T Dichlorodifluoromethane	0.689	0.658	4.5	65	0.13
3 T Chloromethane	0.626	0.551	12.0	59	0.13
4 T Vinyl Chloride	0.552	0.512	7.2	62	0.15
5 T Bromomethane	0.277	0.321	-15.9	80	0.13
6 T Chloroethane	0.212	0.245	-15.6	78	0.13
7 T Acrolein	0.282	0.290	-2.8	69	0.09
8 T Trichlorofluoromethane	0.535	0.601	-12.3	71	0.12
9 T Acetone	0.118	0.111	5.9	70	0.10
10 T 1,1-Dichloroethene	0.705	0.808	-14.6	77	0.11
11 T Acrylonitrile	0.749	0.855	-14.2	76	0.08
12 T Iodomethane	0.655	0.706	-7.8	72	0.11
13 T Methylene Chloride	0.504	0.476	5.6	69	0.10
14 T Carbon Disulfide	1.598	1.606	-0.5	67	0.11
15 T trans-1,2-Dichloroethene	0.426	0.443	-4.0	69	0.09
16 T Methyl-tert-butyl ether	0.930	0.944	-1.5	71	0.09
17 T 1,1-Dichloroethane	0.875	0.992	-13.4	76	0.07
18 T Vinyl Acetate	0.617	0.670	-8.6	75	0.08
19 T N-Hexane	0.637	0.748	-17.4	81	0.09
20 n-Butanol	0.343	0.369	-7.6	74	0.07
21 T 2-Butanone (MEK)	0.156	0.157	-0.6	69	0.05
22 T cis-1,2-Dichloroethene	0.643	0.708	-10.1	73	0.07
23 T Bromochloromethane	0.227	0.238	-4.8	72	0.07
24 T Chloroform	0.889	0.974	-9.6	76	0.06
25 T 2,2-Dichloropropane	0.681	0.771	-13.2	76	0.07
26 S Dibromofluoromethane (SURR)	0.295	0.293	0.7	72	0.06
27 S 1,2-Dichloroethane-d4 (SURR)	0.338	0.356	-5.3	77	0.05
28 T 1,2-Dichloroethane	0.675	0.793	-17.5	81	0.05
29 T 1,1,1-Trichloroethane	0.677	0.789	-16.5	78	0.06
30 T 1,1-Dichloropropene	0.655	0.702	-7.2	72	0.06
31 T Carbon Tetrachloride	0.577	0.674	-16.8	77	0.06
32 T Benzene	1.780	1.782	-0.1	68	0.05
33 T Dibromomethane	0.290	0.308	-6.2	72	0.04
34 T 1,2-Dichloropropane	0.479	0.514	-7.3	72	0.04
35 T Trichloroethene	0.450	0.488	-8.4	73	0.04
36 T Bromodichloromethane	0.712	0.791	-11.1	75	0.04
37 T 2-Chloroethyl-vinyl-ether	0.120	0.128	-6.7	72	0.04
38 T cis-1,3-Dichloropropene	0.831	0.873	-5.1	71	0.03
39 T 4-Methyl-2-Pentanone (MIBK)	0.365	0.381	-4.4	72	0.03
40 T trans-1,3-Dichloropropene	0.742	0.778	-4.9	72	0.02
41 T 1,1,2-Trichloroethane	0.319	0.335	-5.0	72	0.02
42 S Toluene-d8 (SURR)	0.869	0.837	3.7	69	0.03
43 T Toluene	1.744	1.805	-3.5	72	0.02
44 T Ethyl Methacrylate	0.282	0.287	-1.8	69	0.03
45 T 1,3-Dichloropropane	0.730	0.755	-3.4	72	0.02
46 T 2-Hexanone	0.266	0.237	10.9	74	0.02
47 I Chlorobenzene-d5 (IS)	1.000	1.000	0.0	75	0.02
48 T Dibromochloromethane	0.646	0.671	-3.9	74	0.02
49 T 1,2-Dibromoethane (EDB)	0.537	0.536	0.2	73	0.02
50 T Tetrachloroethene	0.625	0.678	-8.5	76	0.02
51 T 1,1,1,2-Tetrachloroethane	0.576	0.592	-2.8	73	0.02
52 T Chlorobenzene	1.520	1.551	-2.0	72	0.02
53 T Ethylbenzene	2.803	2.856	-1.9	72	0.02
54 T m,p-Xylene	2.159	2.179	-0.9	72	0.02
55 T Bromoform	0.362	0.367	-1.4	72	0.02
56 T Styrene	1.684	1.691	-0.4	71	0.02
57 T 1,1,2,2-Tetrachloroethane	0.665	0.644	3.2	70	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\012915\3601036.D
 Acq On : 29 Jan 2015 11:25 pm
 Sample : bfb/ccv 50ppb
 Misc : qc
 MS Integration Params: rteint.p

Vial: 36
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Wed Jan 21 10:54:54 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 T	o-Xylene	0.977	0.978	-0.1	72	0.02
59 T	trans-1,4-Dichloro-2-butene	0.203	0.220	-8.4	77	0.02
60 T	1,2,3-Trichloropropane	0.808	0.822	-1.7	71	0.02
61 T	Isopropylbenzene	2.633	2.687	-2.1	73	0.02
62 S	4-Bromofluorobenzene (SURR)	0.524	0.474	9.5	69	0.02
63 T	Bromobenzene	0.585	0.587	-0.3	72	0.02
64 T	N-propylbenzene	3.370	3.428	-1.7	72	0.00
65 T	2-Chlorotoluene	2.173	2.221	-2.2	72	0.00
66 T	4-Chlorotoluene	0.630	0.615	2.4	69	0.00
67 I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	71	0.00
68 T	1,3,5-Trimethylbenzene	4.436	4.723	-6.5	73	0.02
69 T	tert-Butylbenzene	4.640	4.861	-4.8	71	0.02
70 T	1,2,4-Trimethylbenzene	4.666	4.775	-2.3	72	0.00
71 T	sec-Butylbenzene	6.182	6.605	-6.8	72	0.02
72 T	1,3-Dichlorobenzene	2.492	2.536	-1.8	68	0.00
73 T	1,4-Dichlorobenzene	1.588	1.594	-0.4	69	0.00
74 T	p-Isopropyltoluene	5.047	5.210	-3.2	70	0.02
75 T	1,2-Dichlorobenzene	2.312	2.369	-2.5	70	0.00
76 T	N-Butylbenzene	5.166	5.405	-4.6	70	0.00
77 T	1,2-Dibromo-3-chloropropane	0.185	0.189	-2.2	71	0.00
78 T	1,2,4-Trichlorobenzene	1.413	1.343	5.0	64	0.02
79 T	Naphthalene	3.341	3.031	9.3	66	0.02
80 T	Hexachloro-1,3-butadiene	0.776	0.802	-3.4	69	0.00
81 T	1,2,3-Trichlorobenzene	1.256	1.233	1.8	67	0.00
82	1-methylnaphthalene	1.393	1.248	10.4	61	0.00
83	2-methylnaphthalene	1.836	1.724	6.1	62	0.00

Data File : C:\HPCHEM\1\DATA\012915\3601036.D
 Acq On : 29 Jan 2015 11:25 pm
 Sample : bfb/ccv 50ppb
 Misc : qc

Vial: 36
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 2 9:42 2015

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)

Title : 8260 voa analysis

Last Update : Thu Jan 29 17:20:40 2015

Response via : Initial Calibration

DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	578002	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	453250	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	203117	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.20	113	169195	49.54	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	99.08%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	205680	52.56	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	105.12%
42) Toluene-d8 (SURR)	5.79	98	483529	48.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	96.24%
62) 4-Bromofluorobenzene (SURR)	7.95	95	214635	45.21	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	90.42%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.73	85	380135m	47.75	ug/L	
3) Chloromethane	1.86	50	318232	43.95	ug/L #	98
4) Vinyl Chloride	1.85	62	295725	46.33	ug/L #	81
5) Bromomethane	2.11	94	185478	57.84	ug/L #	70
6) Chloroethane	2.20	64	141489	57.65	ug/L	94
7) Acrolein	3.22	56	167860m	51.46	ug/L	
8) Trichlorofluoromethane	2.31	101	347101m	56.10	ug/L	
9) Acetone	3.11	43	160912	118.10	ug/L	97
10) 1,1-Dichloroethene	2.68	61	467298	57.37	ug/L	93
11) Acrylonitrile	3.56	53	494437	57.10	ug/L	99
12) Iodomethane	2.78	142	407942	53.88	ug/L	99
13) Methylene Chloride	3.07	84	275356	47.24	ug/L	95
14) Carbon Disulfide	2.69	76	928233	50.25	ug/L	90
15) trans-1,2-Dichloroethene	3.17	96	255867	51.97	ug/L	95
16) Methyl-tert-butyl ether	3.24	73	545463	50.74	ug/L	89
17) 1,1-Dichloroethane	3.57	63	573619	56.72	ug/L	100
18) Vinyl Acetate	3.48	43	387433	54.35	ug/L #	100
19) N-Hexane	3.22	57	432530	58.76	ug/L	97
20) n-Butanol	3.71	57	213284	53.71	ug/L #	98
21) 2-Butanone (MEK)	4.27	43	226825	125.53	ug/L	99
22) cis-1,2-Dichloroethene	3.91	61	409091	55.03	ug/L	98
23) Bromochloromethane	4.05	128	137371	52.29	ug/L #	99
24) Chloroform	4.07	83	562882	54.78	ug/L	100
25) 2,2-Dichloropropane	3.98	77	445389	56.58	ug/L	99
28) 1,2-Dichloroethane	4.58	62	458083	58.74	ug/L	98
29) 1,1,1-Trichloroethane	4.22	97	456232	58.31	ug/L	98
30) 1,1-Dichloropropene	4.29	75	405622	53.54	ug/L	100
31) Carbon Tetrachloride	4.17	117	389331	58.42	ug/L	98
32) Benzene	4.45	78	1030031	50.05	ug/L	97
33) Dibromomethane	5.12	93	178023	53.13	ug/L	99
34) 1,2-Dichloropropane	5.18	63	296852	53.66	ug/L	96
35) Trichloroethene	4.82	95	282124	54.25	ug/L	97
36) Bromodichloromethane	5.22	83	457126	55.54	ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.18	63	296852	214.62	ug/L #	99
38) cis-1,3-Dichloropropene	5.65	75	504425	52.53	ug/L	97
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	550560	130.32	ug/L	99
40) trans-1,3-Dichloropropene	6.12	75	449796	52.44	ug/L	96
41) 1,1,2-Trichloroethane	6.24	83	193509	52.42	ug/L	98
43) Toluene	5.82	91	1043434	51.75	ug/L	98
44) Ethyl Methacrylate	5.30	69	165708	50.79	ug/L	95
45) 1,3-Dichloropropane	6.46	76	436124	51.69	ug/L	99
46) 2-Hexanone	6.72	43	410684	133.42	ug/L	98
48) Dibromochloromethane	6.38	129	304023	51.92	ug/L	100
49) 1,2-Dibromoethane (EDB)	6.58	107	242972	49.89	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\012915\3601036.D

Vial: 36

Acq On : 29 Jan 2015 11:25 pm

Operator: GJD

Sample : bfb/ccv 50ppb

Inst : GC/MS #2

Misc : qc

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 2 9:42 2015

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)

Title : 8260 voa analysis

Last Update : Thu Jan 29 17:20:40 2015

Response via : Initial Calibration

DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.11	166	307243	54.25	ug/L	98
51) 1,1,1,2-Tetrachloroethane	7.02	131	268401	51.41	ug/L	100
52) Chlorobenzene	6.97	112	703175	51.03	ug/L	98
53) Ethylbenzene	6.99	91	1294468	50.95	ug/L	97
54) m,p-Xylene	7.10	91	1975485	100.93	ug/L	100
55) Bromoform	7.53	173	166419	50.70	ug/L	96
56) Styrene	7.50	104	766526	50.20	ug/L	99
57) 1,1,2,2-Tetrachloroethane	8.12	83	291803	48.37	ug/L	99
58) o-Xylene	7.45	106	443464	50.05	ug/L	99
59) trans-1,4-Dichloro-2-buten	8.28	53	99693	54.28	ug/L	94
60) 1,2,3-Trichloropropane	8.25	75	372454	50.87	ug/L #	96
61) Isopropylbenzene	7.71	105	1217923	51.03	ug/L	99
63) Bromobenzene	8.06	156	266258	50.17	ug/L	97
64) N-propylbenzene	8.06	91	1553836	50.87	ug/L	100
65) 2-Chlorotoluene	8.20	91	1006814	51.11	ug/L	99
66) 4-Chlorotoluene	8.35	126	278719	48.80	ug/L	94
68) 1,3,5-Trimethylbenzene	8.22	105	959231	53.23	ug/L	98
69) tert-Butylbenzene	8.51	119	987356	52.38	ug/L	96
70) 1,2,4-Trimethylbenzene	8.57	105	969894	51.17	ug/L #	98
71) sec-Butylbenzene	8.67	105	1341629	53.42	ug/L #	98
72) 1,3-Dichlorobenzene	8.87	146	515030	50.88	ug/L	97
73) 1,4-Dichlorobenzene	8.95	148	323764	50.20	ug/L	98
74) p-Isopropyltoluene	8.79	119	1058236	51.62	ug/L	98
75) 1,2-Dichlorobenzene	9.34	146	481193	51.23	ug/L	99
76) N-Butylbenzene	9.17	91	1097853	52.32	ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.09	155	38336	51.12	ug/L	93
78) 1,2,4-Trichlorobenzene	10.74	180	272705	47.51	ug/L	97
79) Naphthalene	11.06	128	615606	45.36	ug/L	99
80) Hexachloro-1,3-butadiene	10.69	225	162873	51.70	ug/L	98
81) 1,2,3-Trichlorobenzene	11.23	180	250430	49.10	ug/L	99
82) 1-methylnaphthalene	12.27	142	253523	44.82	ug/L	97
83) 2-methylnaphthalene	12.10	142	350097	46.95	ug/L	99

(#) = qualifier out of range (m) = manual integration

3601036.D 011615RC.M

Mon Feb 02 09:50:04 2015

VOCWTS

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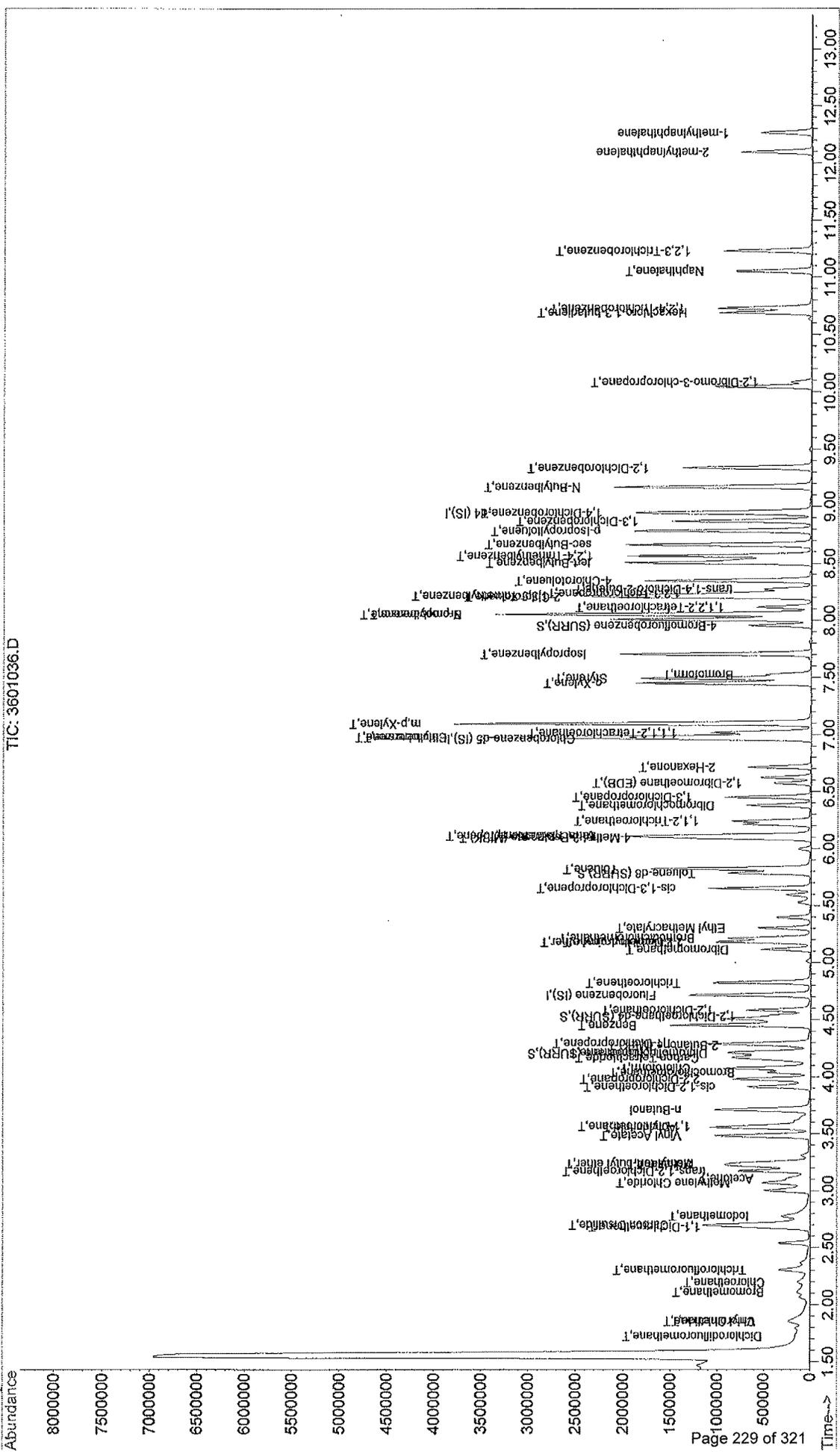
Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\012915\3601036.D
Acq On : 29 Jan 2015 11:25 pm
Sample : bfb/ccv 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Feb 2 9:42 2015

Quant Results File: 011615RC.RES

Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Thu Jan 29 17:20:40 2015
Response via : Initial Calibration



GC/MS QA-QC CHECK REPORT

Tune File: C:\HPCHEM\1\DATA012915\3601036.D

Tune Time: 29-Jan-15 11:25 PM

FILE	SAMPLE	SURROGATE RECOVERY %				INTERNAL STANDARD RESPONSES		
		578002	453250	203117				
3901039.D	mb	96	94	92	87	628923	467075	195295
3701037.D	lcs 50ppb	93	96	90	89	624312	455379	198031
3801038.D	lcsd 50ppb	91	96	88	89	635011	450977	200960
5301053.D	15-1343	100	103	94	87	535017	406101	172170

* - fails criteria

t - fails 12hr time check

Created: Thur. 5-Feb 11:50:00 2015



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8260 VOC Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Data File : C:\HPCHEM\1\DATA\013015C\1201012.D Vial: 12
 Acq On : 30 Jan 2015 6:30 pm Operator: gjd
 Sample : MB Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:21 2015 Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:18:08 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	557651	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.44	117	349702	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.23	152	111791	50.00	ppb	0.00

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.14	113	158571	49.10	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	98.20%
27) 1,2-Dichloroethane-d4 (SUR)	3.41	65	178118	45.47	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	90.94%
42) Toluene-d8 (SURR)	4.42	98	514462	45.94	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	91.88%
62) 4-Bromofluorobenzene (SURR)	6.34	95	202102	46.68	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	93.36%

Target Compounds Qvalue

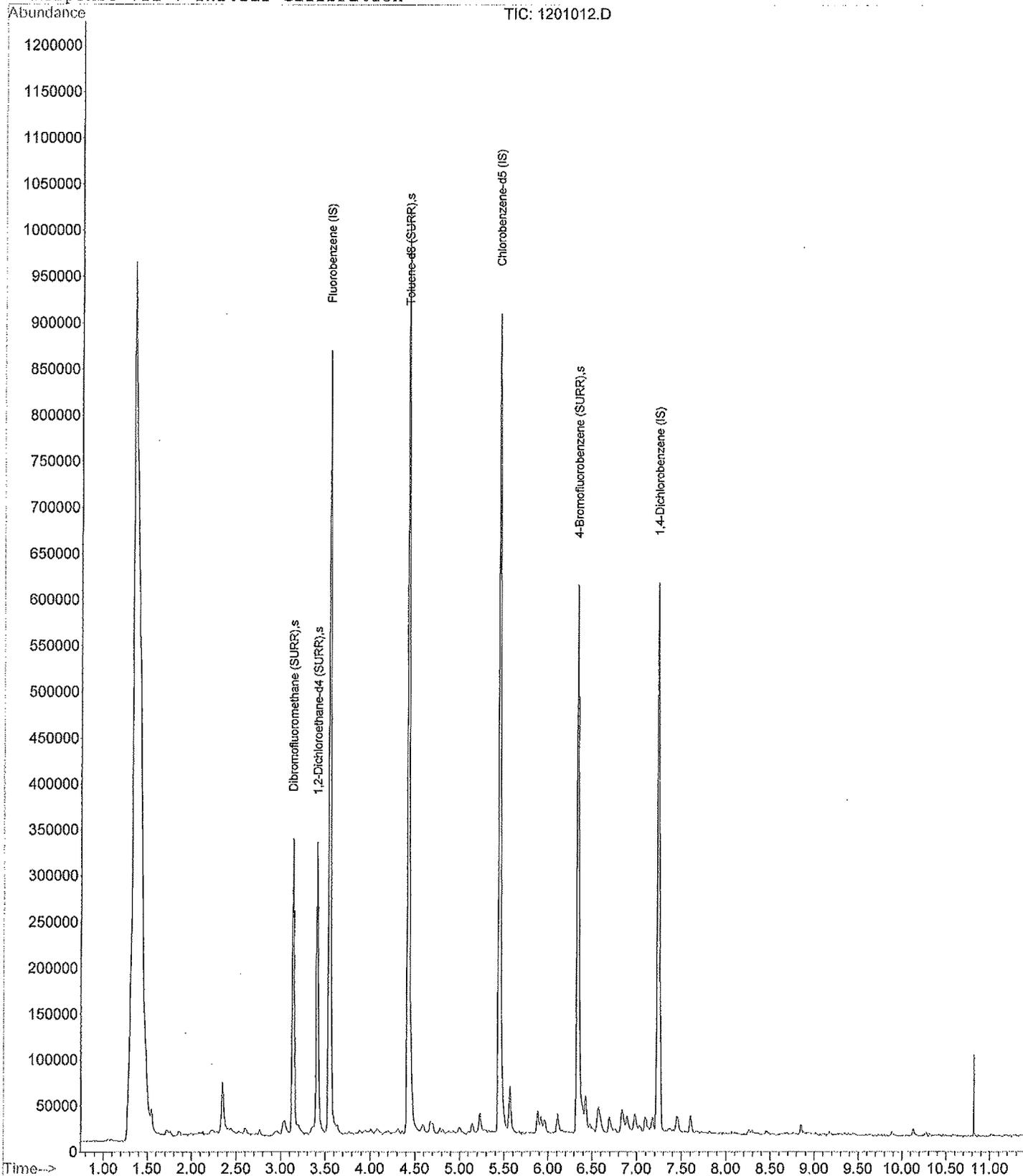
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\1201012.D
Acq On : 30 Jan 2015 6:30 pm
Sample : MB
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 1 4:21 2015

Vial: 12
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:18:08 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\1101011.D Vial: 11
 Acq On : 30 Jan 2015 6:11 pm Operator: gjd
 Sample : 50ppb 8260 ical verification Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical **KCS** Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:20 2015

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:18:08 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.55	96	507729m	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.44	117	325434	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.23	152	125065	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.14	113	139878	47.57	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	95.14%
27) 1,2-Dichloroethane-d4 (SUR)	3.41	65	187579	52.60	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	105.20%
42) Toluene-d8 (SURR)	4.42	98	472770	46.37	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	92.74%
62) 4-Bromofluorobenzene (SURR)	6.33	95	197573	49.03	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	98.06%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.43	85	485446	49.96	ppb	100
3) Chloromethane	1.55	50	522226	51.61	ppb #	95
4) Vinyl Chloride*	1.58	62	434611	52.74	ppb	100
5) Bromomethane	1.74	94	170359	49.86	ppb #	98
6) Chloroethane	1.80	64	154189	55.43	ppb	97
7) Acrolein	2.43	56	339298	52.64	ppb	99
8) Trichlorofluoromethane	1.86	101	480068	56.10	ppb	100
9) Acetone	2.36	43	229112	113.77	ppb #	97
10) 1,1-Dichloroethene*	2.09	61	592218	52.28	ppb	99
11) Acrylonitrile	2.67	53	891099	48.07	ppb	100
12) Iodomethane	2.17	142	343019	54.43	ppb	100
13) Methylene Chloride	2.34	84	319464	43.06	ppb	99
14) Carbon Disulfide	2.12	76	833640	51.29	ppb #	100
15) trans-1,2-Dichloroethene*	2.41	96	282719	53.26	ppb	99
16) Methyl-tert-butyl ether* (	2.44	73	768504	53.71	ppb	96
17) 1,1-Dichloroethane*	2.69	63	975557	49.95	ppb	100
18) Vinyl Acetate	2.77	43	341918	51.62	ppb #	100
19) N-Hexane	2.44	57	687837	53.53	ppb	99
20) N-Butanol	2.76	57	435237	51.29	ppb #	99
21) 2-Butanone (MEK)	3.19	43	581399	131.49	ppb	99
22) cis-1,2-Dichloroethene*	2.93	61	794340	50.94	ppb	97
23) Bromochloromethane	3.03	128	190330	52.70	ppb	99
24) Chloroform*	3.05	83	886015	51.22	ppb	100
25) 2-2-Dichloropropane	2.98	77	755745	51.41	ppb	99
28) 1,2-Dichloroethane	3.44	62	639043	50.23	ppb	99
29) 1,1,1-Trichloroethane*	3.16	97	674697	51.29	ppb	99
30) 1,1-Dichloropropene	3.22	75	682032	52.92	ppb	100
31) Carbon Tetrachloride	3.13	117	630029	52.14	ppb	100
32) Benzene*	3.34	78	1771837	50.28	ppb	100
33) Dibromomethane	3.87	93	320954	51.68	ppb	99
34) 1,2-Dichloropropane	3.92	63	588362	52.57	ppb	100
35) Trichloroethene*	3.63	95	492302	51.09	ppb	100
36) Bromodichloromethane	3.94	83	699569	51.62	ppb	100
37) 2-Chloroethyl-vinyl ether	4.25	63	41092	243.66	ppb	98
38) cis-1,3-Dichloropropene	4.31	75	821459	50.70	ppb	99
39) 4-Methyl-2-Pentanone (MIBK)	4.67	43	1534263	133.29	ppb	100
40) trans-1,3-Dichloropropene	4.70	75	678708	52.90	ppb	100
41) 1,1,2-Trichloroethane	4.81	83	359830	52.09	ppb	99
43) Toluene*	4.45	91	1897883	50.89	ppb	100
44) Ethyl Methacrylate	4.77	69	475424	52.58	ppb	97
45) 1,3-Dichloropropane	4.99	76	686023	51.96	ppb	100
46) 2-Hexanone	5.21	43	1153684	133.17	ppb	99
48) Dibromochloromethane	4.93	129	415553	55.16	ppb	99
49) 1,2-Dibromoethane (EDB)	5.11	107	383738	54.97	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D Vial: 11
 Acq On : 30 Jan 2015 6:11 pm Operator: gjd
 Sample : 50ppb 8260 ical verification Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:20 2015

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:18:08 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.70	166	392918	54.31	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.49	131	341429	55.12	ppb	99
52) Chlorobenzene*	5.46	112	1091051	55.87	ppb	100
53) Ethyl Benzene*	5.46	91	2141796	55.41	ppb	100
54) m,p-Xylene	5.56	91	3195433	111.72	ppb	100
55) Bromoform	5.95	173	221558	57.83	ppb	99
56) Styrene	5.91	104	1210233	55.95	ppb	100
57) 1,1,2,2-Tetrachloroethane	6.48	85	347170	56.10	ppb	100
58) o-Xylene*	5.88	106	708839	54.59	ppb	99
59) trans-1,4-Dichloro-2-buten	6.62	53	160402	54.94	ppb	99
60) 1,2,3-Trichloropropane	6.69	75	56551	52.73	ppb	# 97
61) Isopropylbenzene	6.11	105	1835800	54.94	ppb	100
63) Bromobenzene	6.42	156	386676	57.61	ppb	100
64) N-Propylbenzene*	6.42	91	2605332	56.15	ppb	100
65) 2-Chlorotoluene	6.56	91	1598359	56.48	ppb	97
66) 4-Chlorotoluene	6.69	126	373502	55.64	ppb	99
68) 1,3,5-Trimethylbenzene	6.58	105	1396233	54.16	ppb	99
69) tert-butylbenzene	6.83	119	1407212	56.70	ppb	99
70) 1,2,4-Trimethylbenzene	6.89	105	1354298	54.32	ppb	100
71) sec-Butylbenzene	6.98	105	1990264	55.13	ppb	100
72) 1,3-Dichlorobenzene	7.24	146	635705	55.05	ppb	99
73) 1,4-Dichlorobenzene	7.24	148	405011	54.70	ppb	99
74) p-Isopropyltoluene	7.09	119	1384468	56.10	ppb	100
75) 1,2-Dichlorobenzene	7.60	146	604081	55.27	ppb	99
76) N-Butylbenzene	7.45	91	1816947	55.91	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.28	155	39184	55.77	ppb	96
78) 1,2,4-Trichlorobenzene	8.88	180	282903	53.64	ppb	100
79) Naphthalene	9.17	128	457276	55.17	ppb	100
80) Hexachloro-1,3-butadiene	8.85	225	200559	50.88	ppb	99
81) 1,2,3-Trichlorobenzene	9.34	180	231301	52.85	ppb	99
82) 1-Methylnaphthalene	10.28	142	102826m	55.19	ppb	
83) 2-Methylnaphthalene	10.13	142	133990m	54.96	ppb	

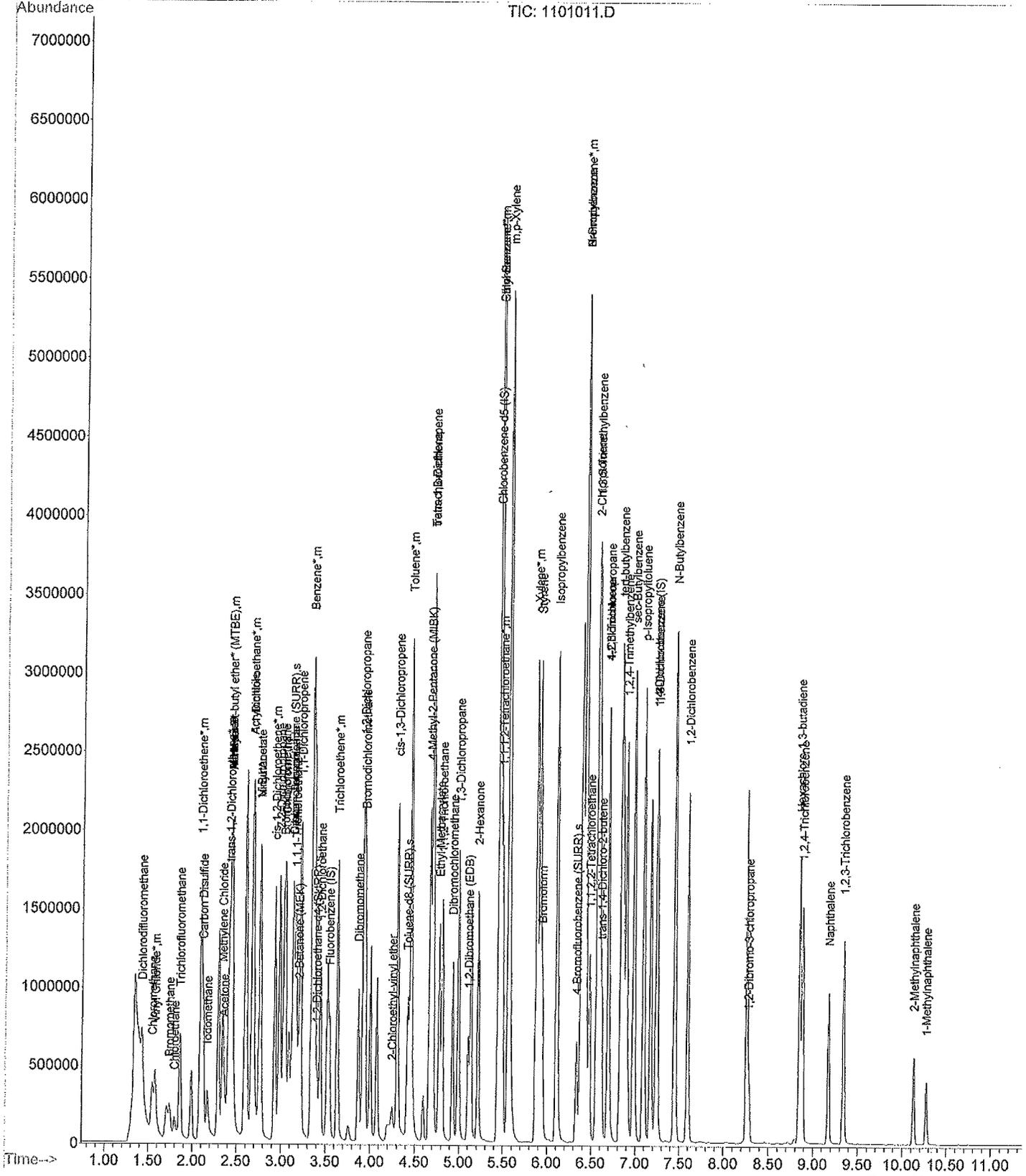
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D
 Acq On : 30 Jan 2015 6:11 pm
 Sample : 50ppb 8260 ical verification
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:20 2015

Vial: 11
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:18:08 2015
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\4101041.D Vial: 41
 Acq On : 31 Jan 2015 3:31 am Operator: gjd
 Sample : 1333 Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:26 2015

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	316596	50.00	ppb	0.01
47) Chlorobenzene-d5 (IS)	5.46	117	133938	50.00	ppb	0.03
67) 1,4-Dichlorobenzene (IS)	7.26	152	13771	50.00	ppb	0.03

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	102150	55.71	ppb	0.01
Spiked Amount	50.000	Range	54 - 140	Recovery	=	111.42%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	124209	55.86	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	111.72%
42) Toluene-d8 (SURR)	4.43	98	249962	45.10	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	90.20%
62) 4-Bromofluorobenzene (SURR)	6.35	95	58034	41.27	ppb	0.03
Spiked Amount	50.000	Range	69 - 131	Recovery	=	82.54%

Target Compounds Qvalue

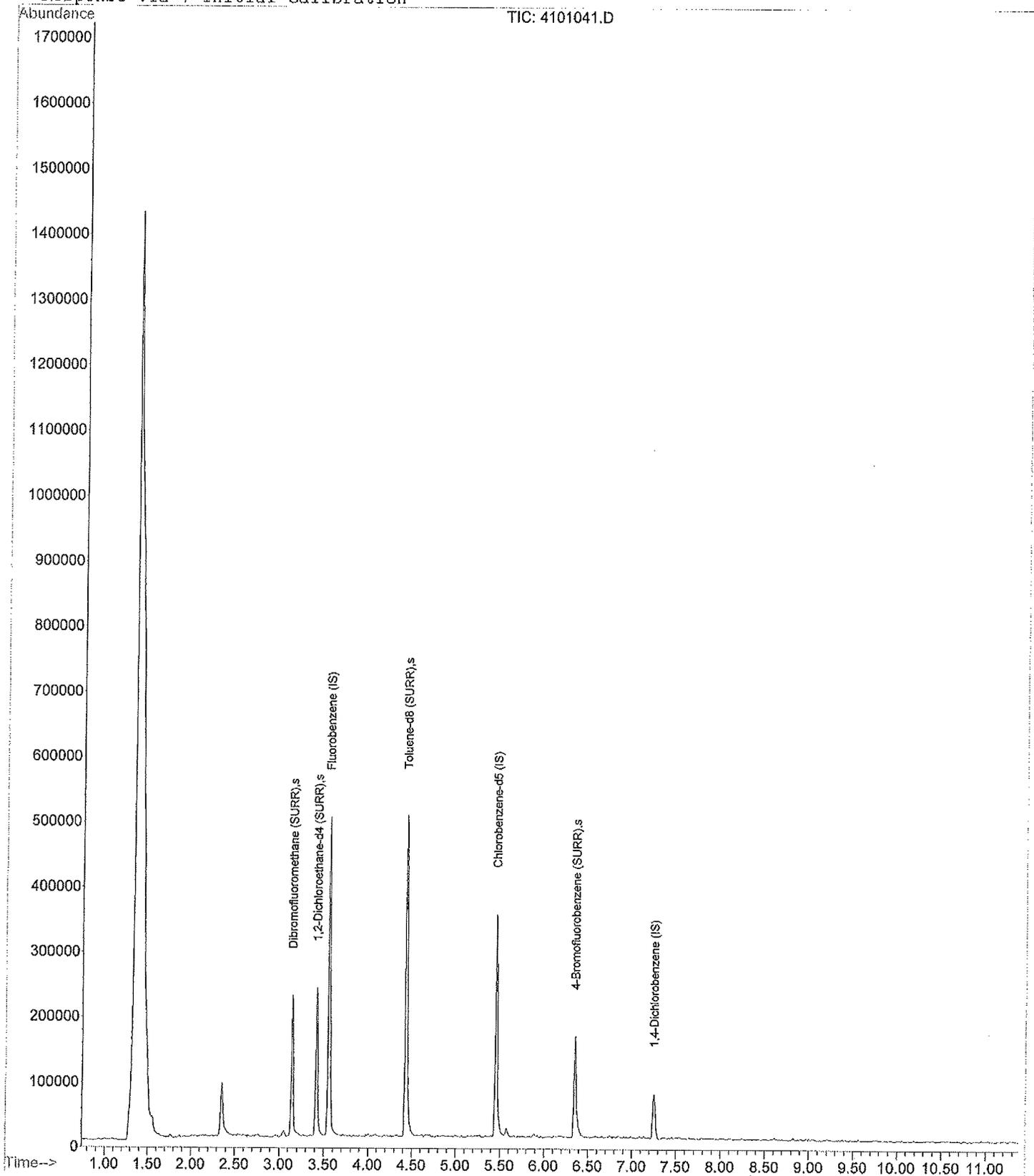
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\4101041.D
Acq On : 31 Jan 2015 3:31 am
Sample : 1333
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 1 4:26 2015

Vial: 41
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\4201042.D
 Acq On : 31 Jan 2015 3:49 am
 Sample : 1333ms
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:29 2015

Vial: 42
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	412785m	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.50	117	189803m	50.00	ppb	0.06
67) 1,4-Dichlorobenzene (IS)	7.24	152	22108	50.00	ppb	0.02

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	106181m	44.42	ppb	0.02
Spiked Amount	50.000	Range	54 - 140	Recovery	=	88.84%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	149112m	51.43	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.86%
42) Toluene-d8 (SURR)	4.43	98	328919m	45.51	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	91.02%
62) 4-Bromofluorobenzene (SURR)	6.34	95	95025m	47.69	ppb	0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	95.38%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.44	85	418921	53.03	ppb	100
3) Chloromethane	1.56	50	446130	54.23	ppb	# 95
4) Vinyl Chloride*	1.58	62	367796	54.90	ppb	100
5) Bromomethane	1.75	94	153278	56.10	ppb	# 98
6) Chloroethane	1.81	64	124716m	55.15	ppb	
7) Acrolein	2.45	56	178938m	34.15	ppb	
8) Trichlorofluoromethane	1.87	101	383948	55.18	ppb	100
9) Acetone	2.38	43	180733	110.39	ppb	98
10) 1,1-Dichloroethene*	2.10	61	506571	55.01	ppb	98
11) Acrylonitrile	2.69	53	873123	57.93	ppb	91
12) Iodomethane	2.18	142	269635	52.63	ppb	99
13) Methylene Chloride	2.35	84	290937	48.24	ppb	99
14) Carbon Disulfide	2.13	76	606224	45.87	ppb	# 100
15) trans-1,2-Dichloroethene*	2.42	96	234809	54.41	ppb	100
16) Methyl-tert-butyl ether* (	2.45	73	644023	55.36	ppb	# 73
17) 1,1-Dichloroethane*	2.70	63	884926	55.73	ppb	99
18) Vinyl Acetate	2.77	43	212791	39.52	ppb	# 100
19) N-Hexane	2.45	57	397365	38.04	ppb	93
20) N-Butanol	2.77	57	393390	57.03	ppb	# 99
21) 2-Butanone (MEK)	3.20	43	452338	125.83	ppb	98
22) cis-1,2-Dichloroethene*	2.94	61	649873	51.26	ppb	99
23) Bromochloromethane	3.04	128	155306	52.90	ppb	96
24) Chloroform*	3.06	83	742275	52.78	ppb	99
25) 2-2-Dichloropropane	2.99	77	580202	48.55	ppb	99
28) 1,2-Dichloroethane	3.45	62	523135	50.58	ppb	98
29) 1,1,1-Trichloroethane*	3.17	97	532828	49.82	ppb	99
30) 1,1-Dichloropropene	3.23	75	499511	47.67	ppb	99
31) Carbon Tetrachloride	3.14	117	453027	46.12	ppb	100
32) Benzene*	3.35	78	1466736	51.19	ppb	100
33) Dibromomethane	3.88	93	251570	49.82	ppb	97
34) 1,2-Dichloropropane	3.93	63	485669	53.37	ppb	98
35) Trichloroethene*	3.64	95	362412	46.26	ppb	98
36) Bromodichloromethane	3.95	83	548396	49.77	ppb	100
37) 2-Chloroethyl-vinyl ether	4.26	63	27796	202.73	ppb	99
38) cis-1,3-Dichloropropene	4.32	75	592740	45.00	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.68	43	1153572	123.26	ppb	99
40) trans-1,3-Dichloropene	4.71	75	490726	47.04	ppb	95
41) 1,1,2-Trichloroethane	4.82	83	265679	47.31	ppb	99
43) Toluene*	4.47	91	1280569	42.24	ppb	100
44) Ethyl Methacrylate	4.79	69	149410	20.32	ppb	# 94
45) 1,3-Dichloropropane	5.00	76	510362	47.55	ppb	100
46) 2-Hexanone	5.23	43	772609	109.69	ppb	99
48) Dibromochloromethane	4.94	129	267192	60.81	ppb	100
49) 1,2-Dibromoethane (EDB)	5.12	107	264188	64.89	ppb	99

Data File : C:\HPCHEM\1\DATA\013015C\4201042.D
 Acq On : 31 Jan 2015 3:49 am
 Sample : 1333ms
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:29 2015

Vial: 42
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEC\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.71	166	221182	52.42	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.50	131	210905	58.38	ppb	99
52) Chlorobenzene*	5.47	112	630547	55.36	ppb	97
53) Ethyl Benzene*	5.47	91	1246465	55.29	ppb	96
54) m,p-Xylene	5.57	91	1790442	107.33	ppb	97
55) Bromoform	5.96	173	120436	53.90	ppb	# 99
56) Styrene	5.93	104	614246	48.69	ppb	97
57) 1,1,2,2-Tetrachloroethane	6.49	85	207258	57.42	ppb	99
58) o-Xylene*	5.89	106	353545	46.69	ppb	96
59) trans-1,4-Dichloro-2-buten	6.63	53	98342	57.75	ppb	96
60) 1,2,3-Trichloropropane	6.70	75	26120	41.76	ppb	# 99
61) Isopropylbenzene	6.12	105	875972	44.95	ppb	98
63) Bromobenzene	6.43	156	176812	45.17	ppb	84
64) N-Propylbenzene*	6.44	91	1160477	42.88	ppb	98
65) 2-Chlorotoluene	6.57	91	730889	44.28	ppb	97
66) 4-Chlorotoluene	6.70	126	146905	37.52	ppb	91
68) 1,3,5-Trimethylbenzene	6.59	105	552402	121.21	ppb	# 92
69) tert-butylbenzene	6.85	119	524522	119.56	ppb	97
70) 1,2,4-Trimethylbenzene	6.90	105	502112	113.93	ppb	98
71) sec-Butylbenzene	6.99	105	673944	105.61	ppb	99
72) 1,3-Dichlorobenzene	7.25	146	203597	99.74	ppb	98
73) 1,4-Dichlorobenzene	7.25	148	130415	99.64	ppb	98
74) p-Isopropyltoluene	7.10	119	408572	93.65	ppb	97
75) 1,2-Dichlorobenzene	7.61	146	186182	96.36	ppb	99
76) N-Butylbenzene	7.46	91	409836	71.34	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.30	155	15432	124.25	ppb	84
78) 1,2,4-Trichlorobenzene	8.89	180	27864	29.89	ppb	98
79) Naphthalene	9.19	128	71534	48.82	ppb	99
80) Hexachloro-1,3-butadiene	8.86	225	17496	25.11	ppb	99
81) 1,2,3-Trichlorobenzene	9.36	180	20873	26.98	ppb	99
82) 1-Methylnaphthalene	10.29	142	6867	20.85	ppb	98
83) 2-Methylnaphthalene	10.14	142	10049	23.32	ppb	92

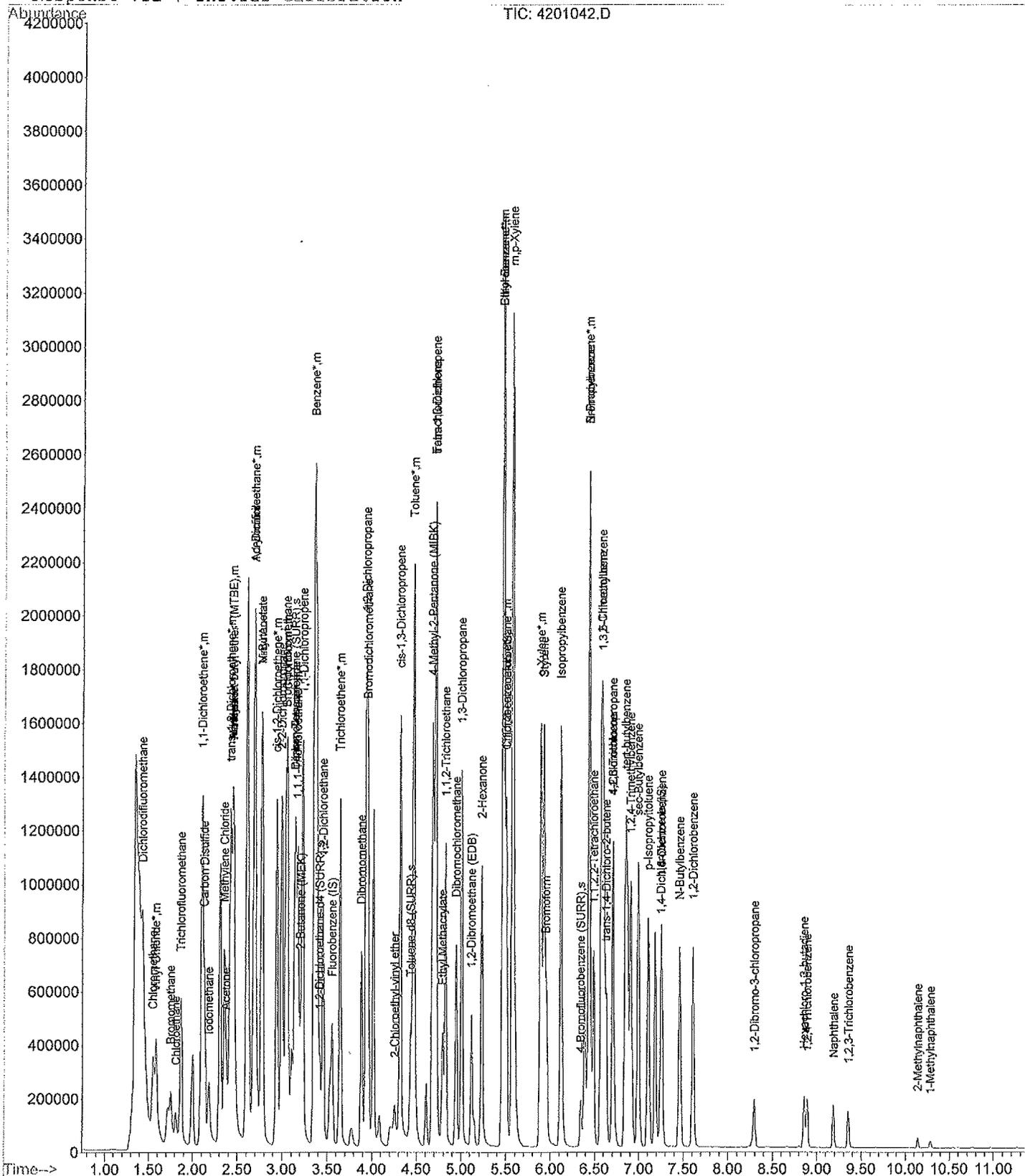
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\4201042.D
Acq On : 31 Jan 2015 3:49 am
Sample : 1333ms
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 1 4:29 2015

Vial: 42
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\4301043.D
 Acq On : 31 Jan 2015 4:08 am
 Sample : 1333msd
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:33 2015

Vial: 43
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	421191m	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.46	117	177861m	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.24	152	32038	50.00	ppb	0.02

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	109558m	44.92	ppb	0.02
Spiked Amount	50.000	Range	54 - 140	Recovery	=	89.84%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	145412m	49.15	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.30%
42) Toluene-d8 (SURR)	4.43	98	366338m	49.68	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	99.36%
62) 4-Bromofluorobenzene (SURR)	6.35	95	91220m	48.85	ppb	0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	97.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.44	85	407274	50.53	ppb	100
3) Chloromethane	1.55	50	484651	57.74	ppb #	96
4) Vinyl Chloride*	1.59	62	389041	56.91	ppb	100
5) Bromomethane	1.75	94	157990	56.77	ppb #	98
6) Chloroethane	1.81	64	143133	62.03	ppb	98
7) Acrolein	2.45	56	148775	27.83	ppb #	79
8) Trichlorofluoromethane	1.87	101	381464	53.73	ppb	100
9) Acetone	2.38	43	193145	115.61	ppb	98
10) 1,1-Dichloroethene*	2.10	61	499445	53.15	ppb	98
11) Acrylonitrile	2.69	53	704139	45.79	ppb	99
12) Iodomethane	2.18	142	294178	56.27	ppb	100
13) Methylene Chloride	2.35	84	293785	47.74	ppb	97
14) Carbon Disulfide	2.13	76	647445	48.02	ppb #	100
15) trans-1,2-Dichloroethene*	2.42	96	244123	55.44	ppb	96
16) Methyl-tert-butyl ether* (	2.46	73	655709m	55.24	ppb	
17) 1,1-Dichloroethane*	2.70	63	904072	55.80	ppb	100
18) Vinyl Acetate	2.77	43	219357	39.92	ppb #	100
19) N-Hexane	2.45	57	367670	34.50	ppb	88
20) N-Butanol	2.77	57	412828	58.65	ppb #	99
21) 2-Butanone (MEK)	3.20	43	477409	130.15	ppb	97
22) cis-1,2-Dichloroethene*	2.94	61	671494	51.91	ppb	100
23) Bromochloromethane	3.04	128	161168	53.80	ppb	96
24) Chloroform*	3.06	83	723814	50.44	ppb	100
25) 2-2-Dichloropropane	3.00	77	567383	46.53	ppb	98
28) 1,2-Dichloroethane	3.45	62	538975	51.07	ppb	99
29) 1,1,1-Trichloroethane*	3.17	97	528542m	48.43	ppb	
30) 1,1-Dichloropropene	3.23	75	440358	41.18	ppb	99
31) Carbon Tetrachloride	3.14	117	393385	39.25	ppb	100
32) Benzene*	3.35	78	1448943	49.56	ppb	100
33) Dibromomethane	3.88	93	260345	50.53	ppb	99
34) 1,2-Dichloropropane	3.93	63	475024	51.16	ppb	99
35) Trichloroethene*	3.64	95	352051m	44.04	ppb	
36) Bromodichloromethane	3.95	83	540255	48.06	ppb	100
37) 2-Chloroethyl-vinyl ether	4.26	63	40023	286.08	ppb	92
38) cis-1,3-Dichloropropene	4.32	75	591583	44.01	ppb	98
39) 4-Methyl-2-Pentanone (MIBK)	4.68	43	1221895	127.96	ppb	99
40) trans-1,3-Dichloropene	4.71	75	495792	46.58	ppb	94
41) 1,1,2-Trichloroethane	4.82	83	268960	46.94	ppb	99
43) Toluene*	4.47	91	1313107m	42.45	ppb	
44) Ethyl Methacrylate	4.79	69	166533	22.20	ppb #	90
45) 1,3-Dichloropropane	5.00	76	522321	47.69	ppb	100
46) 2-Hexanone	5.23	43	816799	113.65	ppb	100
48) Dibromochloromethane	4.94	129	258022	62.66	ppb	99
49) 1,2-Dibromoethane (EDB)	5.12	107	263245	69.00	ppb	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\013015C\4301043.D
 Acq On : 31 Jan 2015 4:08 am
 Sample : 1333msd
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:33 2015

Vial: 43
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.71	166	181963	46.02	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.50	131	192017	56.72	ppb	98
52) Chlorobenzene*	5.47	112	544752	51.04	ppb	96
53) Ethyl Benzene*	5.47	91	1090554m	51.63	ppb	
54) m,p-Xylene	5.57	91	1491722	95.43	ppb	97
55) Bromoform	5.96	173	115622	55.22	ppb	# 99
56) Styrene	5.93	104	522838	44.23	ppb	97
57) 1,1,2,2-Tetrachloroethane	6.49	85	196985	58.24	ppb	99
58) o-Xylene*	5.89	106	337601m	47.57	ppb	
59) trans-1,4-Dichloro-2-buten	6.63	53	95245	59.69	ppb	97
60) 1,2,3-Trichloropropane	6.70	75	21947	37.44	ppb	# 98
61) Isopropylbenzene	6.12	105	708150	38.78	ppb	98
63) Bromobenzene	6.43	156	140665	38.34	ppb	85
64) N-Propylbenzene*	6.44	91	1054827m	41.60	ppb	
65) 2-Chlorotoluene	6.57	91	597821	38.65	ppb	97
66) 4-Chlorotoluene	6.70	126	123205	33.58	ppb	91
68) 1,3,5-Trimethylbenzene	6.59	105	463858	70.23	ppb	# 90
69) tert-butylbenzene	6.85	119	437386	68.80	ppb	96
70) 1,2,4-Trimethylbenzene	6.90	105	416126	65.16	ppb	98
71) sec-Butylbenzene	6.99	105	590497	63.85	ppb	99
72) 1,3-Dichlorobenzene	7.26	146	169475	57.29	ppb	98
73) 1,4-Dichlorobenzene	7.26	148	108661	57.29	ppb	98
74) p-Isopropyltoluene	7.11	119	359610	56.88	ppb	97
75) 1,2-Dichlorobenzene	7.61	146	150052	53.59	ppb	99
76) N-Butylbenzene	7.46	91	382029	45.89	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.30	155	14035	77.98	ppb	87
78) 1,2,4-Trichlorobenzene	8.89	180	24506	18.14	ppb	98
79) Naphthalene	9.19	128	57996	27.31	ppb	100
80) Hexachloro-1,3-butadiene	8.86	225	18121	17.95	ppb	99
81) 1,2,3-Trichlorobenzene	9.36	180	17506	15.61	ppb	97
82) 1-Methylnaphthalene	10.29	142	5966	12.50	ppb	97
83) 2-Methylnaphthalene	10.14	142	8235	13.18	ppb	99

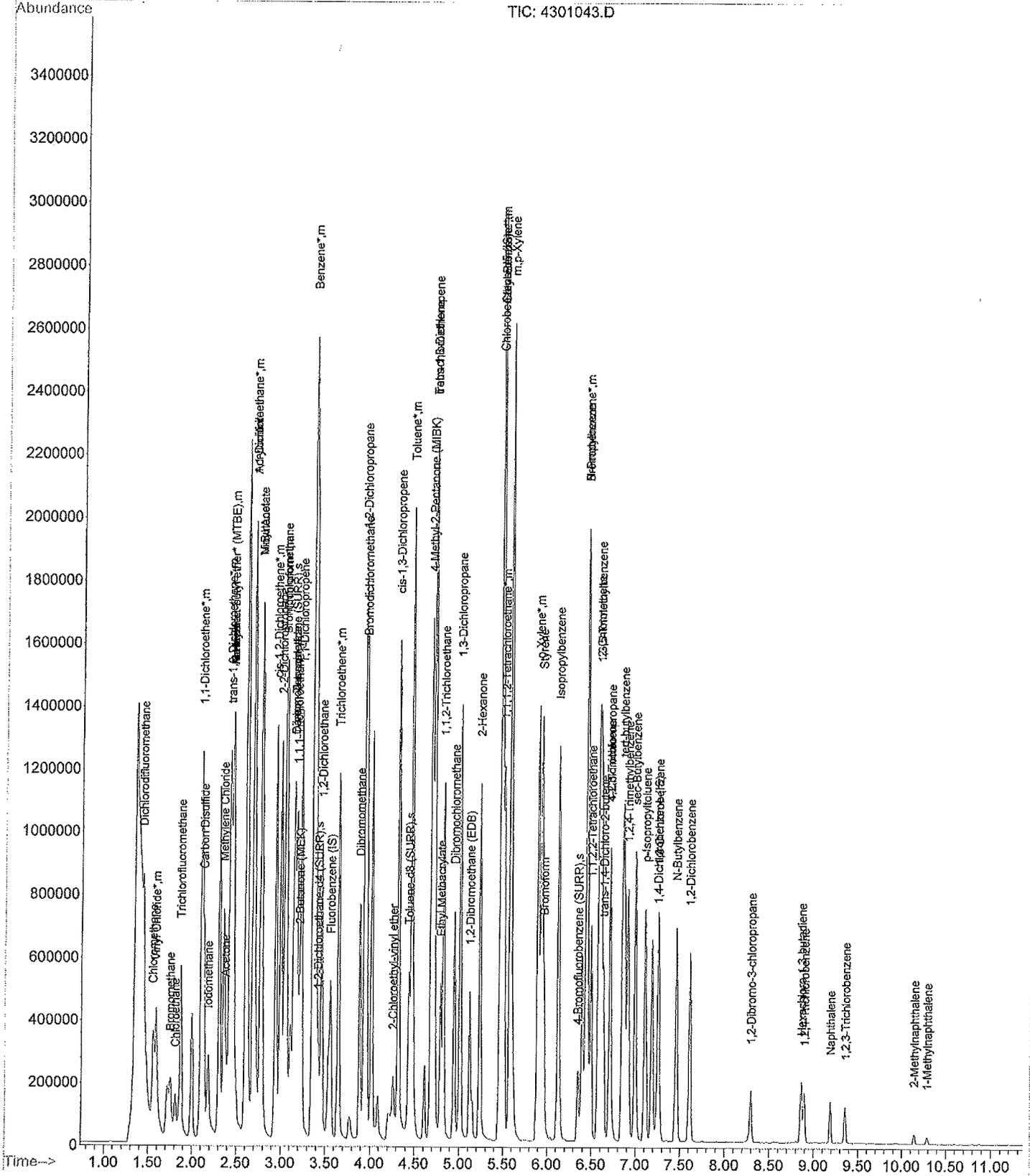
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\4301043.D
Acq On : 31 Jan 2015 4:08 am
Sample : 1333msd
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 1 4:33 2015

Vial: 43
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\012915\3901039.D

Vial: 39

Acq On : 30 Jan 2015 12:27 am

Operator: GJD

Sample : mb

Inst : GC/MS #2

Misc : qc

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 2 9:32 2015

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)

Title : 8260 voa analysis

Last Update : Thu Jan 29 17:20:40 2015

Response via : Initial Calibration

DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	628923	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	467075	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	195295	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.20	113	177686	47.81	ug/L	0.00
Spiked Amount	50.000	Range 69 - 137	Recovery	=	95.62%	
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	201100	47.23	ug/L	0.00
Spiked Amount	50.000	Range 67 - 144	Recovery	=	94.46%	
42) Toluene-d8 (SURR)	5.78	98	505267	46.22	ug/L	0.00
Spiked Amount	50.000	Range 60 - 128	Recovery	=	92.44%	
62) 4-Bromofluorobenzene (SURR)	7.95	95	211845	43.30	ug/L	0.00
Spiked Amount	50.000	Range 62 - 145	Recovery	=	86.60%	

Target Compounds

Qvalue

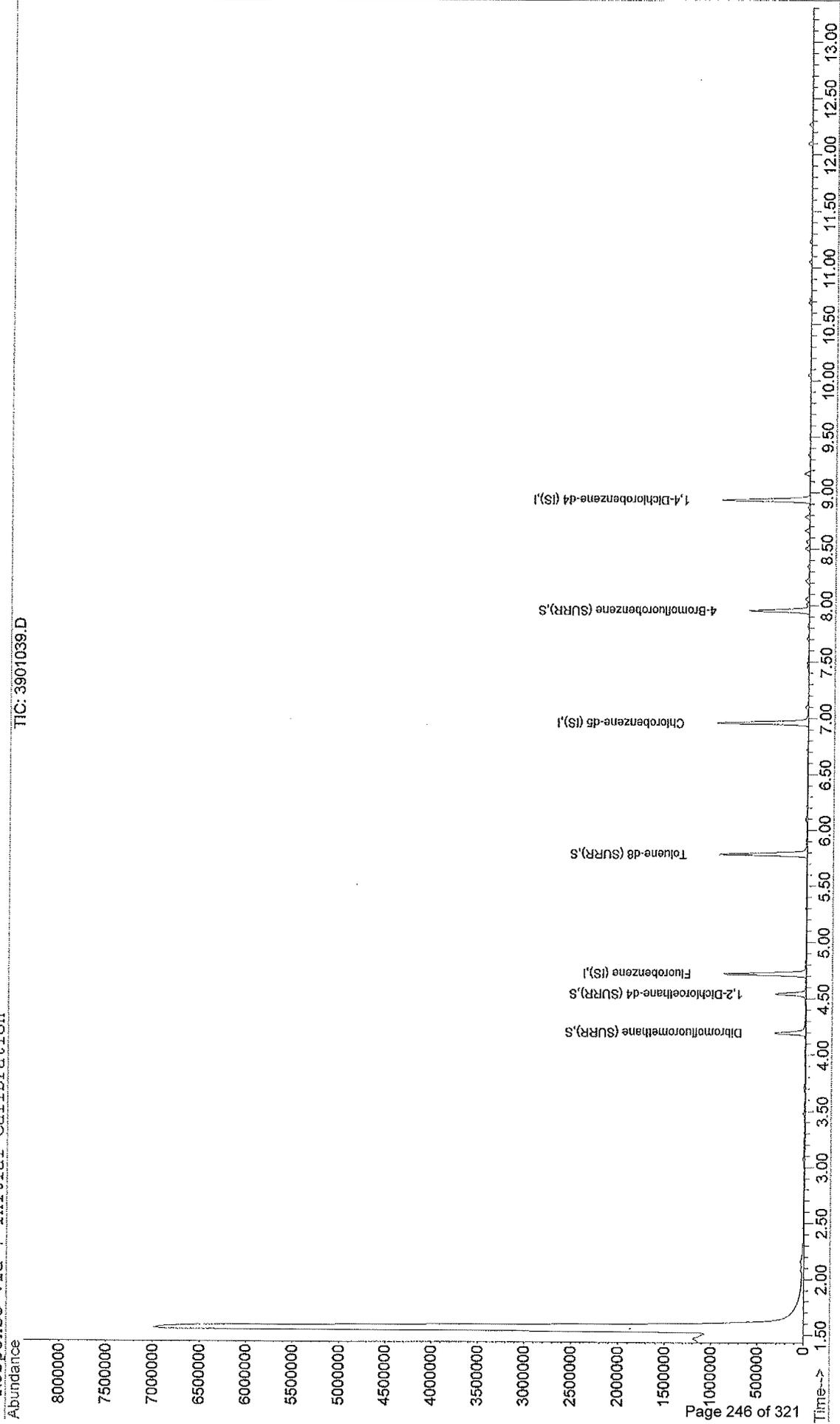
Quantitation Report

Data File : C:\HPCHEM\1\DATA\012915\3901039.D
Acq On : 30 Jan 2015 12:27 am
Sample : mb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Feb 2 9:32 2015

Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Thu Jan 29 17:20:40 2015
Response via : Initial Calibration

Quant Results File: 011615RC.RES

TIC: 3901039.D



Data File : C:\HPCHEM\1\DATA\012915\3701037.D

Vial: 37

Acq On : 29 Jan 2015 11:46 pm

Operator: GJD

Sample : lcs 50ppb

Inst : GC/MS #2

Misc : qc

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 2 9:31 2015

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)

Title : 8260 voa analysis

Last Update : Thu Jan 29 17:20:40 2015

Response via : Initial Calibration

DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	624312m	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	455379	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	198031	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.20	113	171110	46.38	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	92.76%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	203583	48.17	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	96.34%
42) Toluene-d8 (SURR)	5.79	98	490794	45.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	90.44%
62) 4-Bromofluorobenzene (SURR)	7.95	95	213228	44.70	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	89.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.73	85	393051m	45.71	ug/L	
3) Chloromethane	1.86	50	353801m	45.24	ug/L	
4) Vinyl Chloride	1.85	62	304551	44.17	ug/L #	82
5) Bromomethane	2.11	94	196021	56.59	ug/L #	74
6) Chloroethane	2.20	64	145246	54.79	ug/L #	89
7) Acrolein	3.22	56	179016m	50.81	ug/L	
8) Trichlorofluoromethane	2.30	101	396490	59.33	ug/L	99
9) Acetone	3.11	43	169836	115.40	ug/L	99
10) 1,1-Dichloroethene	2.68	61	490436	55.74	ug/L	96
11) Acrylonitrile	3.56	53	519638	55.56	ug/L	99
12) Iodomethane	2.78	142	427448	52.27	ug/L	99
13) Methylene Chloride	3.07	84	284751	45.23	ug/L	94
14) Carbon Disulfide	2.70	76	984445	49.34	ug/L	91
15) trans-1,2-Dichloroethene	3.17	96	268256	50.44	ug/L	94
16) Methyl-tert-butyl ether	3.24	73	590193	50.83	ug/L	89
17) 1,1-Dichloroethane	3.57	63	597513	54.70	ug/L	99
18) Vinyl Acetate	3.48	43	413650	53.72	ug/L #	100
19) N-Hexane	3.22	57	392296m	49.34	ug/L	
20) n-Butanol	3.71	57	227350	53.01	ug/L #	98
21) 2-Butanone (MEK)	4.27	43	246845	126.47	ug/L	98
22) cis-1,2-Dichloroethene	3.91	61	447946	55.79	ug/L	95
23) Bromochloromethane	4.05	128	141796	49.97	ug/L #	98
24) Chloroform	4.07	83	585207	52.73	ug/L	99
25) 2,2-Dichloropropane	3.98	77	462547	54.40	ug/L	98
28) 1,2-Dichloroethane	4.58	62	468513	55.62	ug/L	99
29) 1,1,1-Trichloroethane	4.22	97	475113	56.22	ug/L	98
30) 1,1-Dichloropropene	4.29	75	428779	52.39	ug/L	100
31) Carbon Tetrachloride	4.17	117	409180	56.84	ug/L	98
32) Benzene	4.45	78	1092779	49.16	ug/L	97
33) Dibromomethane	5.12	93	189340	52.32	ug/L	99
34) 1,2-Dichloropropane	5.18	63	314596	52.64	ug/L	97
35) Trichloroethene	4.82	95	296214	52.73	ug/L	98
36) Bromodichloromethane	5.22	83	478453	53.82	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.18	63	314596	210.58	ug/L #	100
38) cis-1,3-Dichloropropene	5.65	75	533128	51.40	ug/L	97
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	577180	126.49	ug/L	99
40) trans-1,3-Dichloropropene	6.12	75	473584	51.11	ug/L	96
41) 1,1,2-Trichloroethane	6.24	83	200472	50.28	ug/L	99
43) Toluene	5.82	91	1090572	50.08	ug/L	99
44) Ethyl Methacrylate	5.30	69	176464	50.08	ug/L	96
45) 1,3-Dichloropropane	6.45	76	457255	50.17	ug/L	100
46) 2-Hexanone	6.72	43	435785	131.07	ug/L	97
48) Dibromochloromethane	6.38	129	314942	53.53	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.57	107	257460	52.62	ug/L	98

(#) = qualifier out of range (m) = manual integration

3701037.D 011615RC.M

Mon Feb 02 09:50:09 2015

VOCWTS

Data File : C:\HPCHEM\1\DATA\012915\3701037.D
 Acq On : 29 Jan 2015 11:46 pm
 Sample : lcs 50ppb
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:31 2015

Vial: 37
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

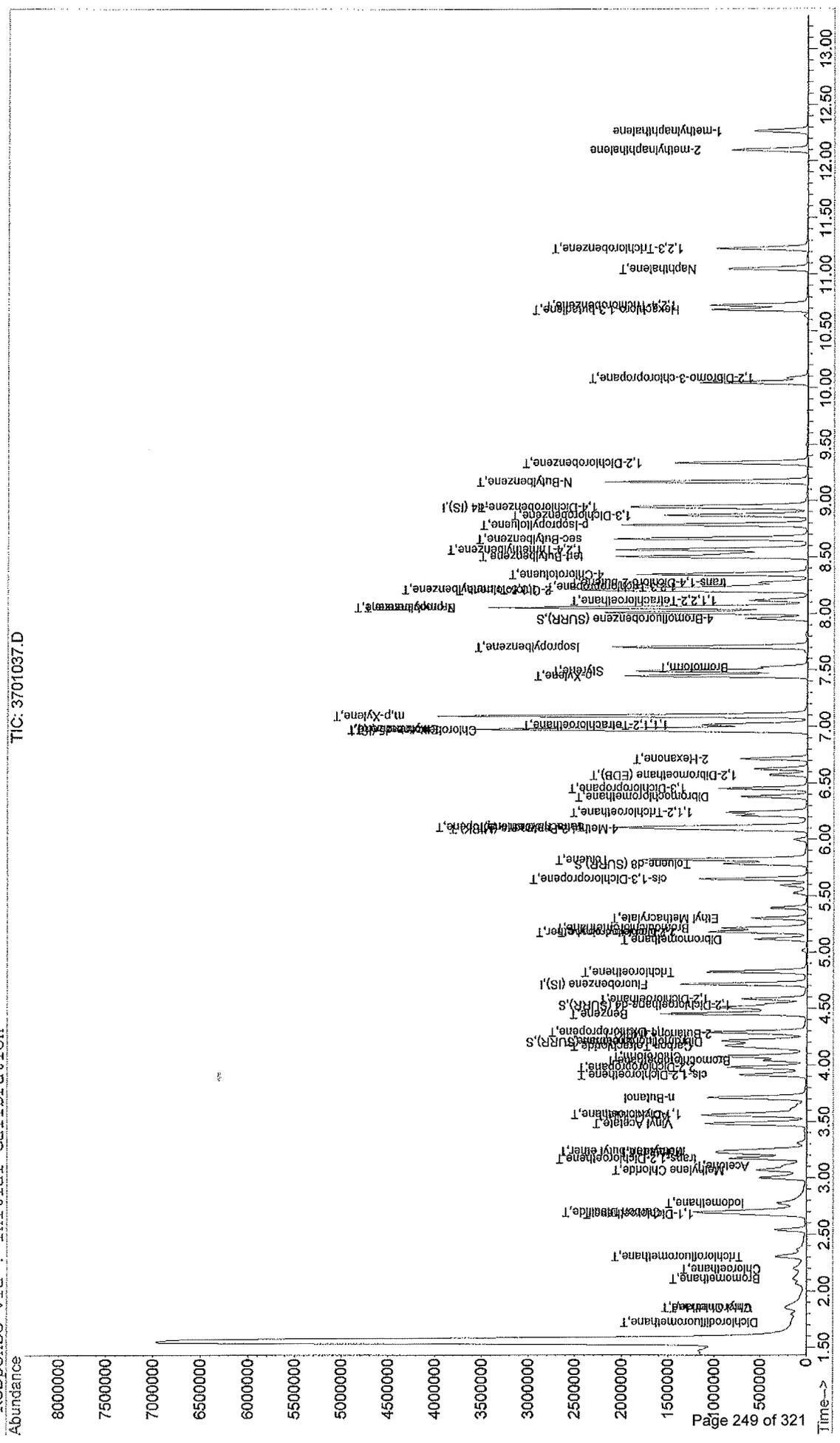
Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Thu Jan 29 17:20:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.11	166	328620	57.75	ug/L	97
51) 1,1,1,2-Tetrachloroethane	7.02	131	279151	53.22	ug/L	99
52) Chlorobenzene	6.97	112	735909	53.16	ug/L	99
53) Ethylbenzene	6.99	91	1341913	52.57	ug/L	98
54) m,p-Xylene	7.10	91	2043501	103.91	ug/L	100
55) Bromoform	7.53	173	172881	52.42	ug/L	99
56) Styrene	7.50	104	792201	51.64	ug/L	98
57) 1,1,2,2-Tetrachloroethane	8.12	83	303629	50.10	ug/L	98
58) o-Xylene	7.45	106	459544	51.63	ug/L	98
59) trans-1,4-Dichloro-2-buten	8.28	53	103404	56.04	ug/L	97
60) 1,2,3-Trichloropropane	8.25	75	392955	53.42	ug/L #	98
61) Isopropylbenzene	7.71	105	1270058	52.96	ug/L	99
63) Bromobenzene	8.06	156	272915	51.19	ug/L	96
64) N-propylbenzene	8.06	91	1621800	52.84	ug/L	100
65) 2-Chlorotoluene	8.20	91	1061121	53.61	ug/L	99
66) 4-Chlorotoluene	8.35	126	287247	50.06	ug/L	93
68) 1,3,5-Trimethylbenzene	8.22	105	993547	56.55	ug/L	98
69) tert-Butylbenzene	8.51	119	1033914	56.26	ug/L	96
70) 1,2,4-Trimethylbenzene	8.57	105	1000593	54.15	ug/L #	99
71) sec-Butylbenzene	8.66	105	1411428	57.64	ug/L #	99
72) 1,3-Dichlorobenzene	8.87	146	524917	53.18	ug/L	98
73) 1,4-Dichlorobenzene	8.95	148	332260	52.84	ug/L	98
74) p-Isopropyltoluene	8.78	119	1114423	55.76	ug/L	99
75) 1,2-Dichlorobenzene	9.34	146	492652	53.80	ug/L	99
76) N-Butylbenzene	9.17	91	1144437	55.94	ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.09	155	40424	55.29	ug/L	95
78) 1,2,4-Trichlorobenzene	10.73	180	284183	50.78	ug/L	96
79) Naphthalene	11.05	128	643874	48.66	ug/L	99
80) Hexachloro-1,3-butadiene	10.69	225	168784	54.95	ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	262217	52.73	ug/L	99
82) 1-methylnaphthalene	12.27	142	278971	50.58	ug/L	98
83) 2-methylnaphthalene	12.10	142	385375	53.01	ug/L	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\012915\3701037.D
Acq On : 29 Jan 2015 11:46 pm
Sample : lcs 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Feb 2 9:31 2015
Vial: 37
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00
Quant Results File: 011615RC.RES

Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Thu Jan 29 17:20:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\012915\3801038.D
 Acq On : 30 Jan 2015 12:06 am
 Sample : lcsd 50ppb
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:44 2015

Vial: 38
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Thu Jan 29 17:20:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	635011m	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	450977	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	200960	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.20	113	170574	45.46	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	90.92%
27) 1,2-Dichloroethane-d4 (SUR)	4.55	65	206345	48.00	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	96.00%
42) Toluene-d8 (SURR)	5.79	98	484981	43.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	87.88%
62) 4-Bromofluorobenzene (SURR)	7.95	95	211243	44.72	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	89.44%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.73	85	405153m	46.32	ug/L	
3) Chloromethane	1.87	50	373698m	46.98	ug/L	
4) Vinyl Chloride	1.85	62	336057m	47.92	ug/L	
5) Bromomethane	2.11	94	189785	53.87	ug/L	# 61
6) Chloroethane	2.20	64	133834m	49.64	ug/L	
7) Acrolein	3.22	56	184044m	51.36	ug/L	
8) Trichlorofluoromethane	2.31	101	405649	59.68	ug/L	99
9) Acetone	3.11	43	181314	121.13	ug/L	95
10) 1,1-Dichloroethene	2.67	61	501376	56.02	ug/L	96
11) Acrylonitrile	3.56	53	541463	56.92	ug/L	99
12) Iodomethane	2.78	142	443233	53.29	ug/L	100
13) Methylene Chloride	3.07	84	295530	46.15	ug/L	95
14) Carbon Disulfide	2.70	76	1009940	49.76	ug/L	91
15) trans-1,2-Dichloroethene	3.18	96	280462	51.85	ug/L	96
16) Methyl-tert-butyl ether	3.25	73	600351	50.83	ug/L	89
17) 1,1-Dichloroethane	3.58	63	615044	55.36	ug/L	99
18) Vinyl Acetate	3.48	43	416331	53.16	ug/L	# 100
19) N-Hexane	3.23	57	474201	58.64	ug/L	96
20) n-Butanol	3.72	57	234228	53.69	ug/L	# 98
21) 2-Butanone (MEK)	4.28	43	249569	125.71	ug/L	99
22) cis-1,2-Dichloroethene	3.91	61	447449	54.78	ug/L	96
23) Bromochloromethane	4.04	128	144915	50.21	ug/L	# 98
24) Chloroform	4.08	83	595376	52.74	ug/L	99
25) 2,2-Dichloropropane	3.98	77	481822	55.71	ug/L	98
28) 1,2-Dichloroethane	4.59	62	484199	56.52	ug/L	98
29) 1,1,1-Trichloroethane	4.22	97	486724	56.63	ug/L	99
30) 1,1-Dichloropropene	4.29	75	438356	52.66	ug/L	100
31) Carbon Tetrachloride	4.17	117	414623	56.63	ug/L	99
32) Benzene	4.46	78	1115620	49.35	ug/L	97
33) Dibromomethane	5.11	93	194048	52.71	ug/L	97
34) 1,2-Dichloropropane	5.19	63	320572	52.74	ug/L	96
35) Trichloroethene	4.83	95	304927	53.37	ug/L	98
36) Bromodichloromethane	5.22	83	495628	54.82	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.19	63	320572	210.96	ug/L	# 100
38) cis-1,3-Dichloropropene	5.65	75	544524	51.62	ug/L	96
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	597830	128.80	ug/L	99
40) trans-1,3-Dichloropropene	6.12	75	482438	51.19	ug/L	97
41) 1,1,2-Trichloroethane	6.24	83	204232	50.36	ug/L	99
43) Toluene	5.83	91	1111525	50.18	ug/L	99
44) Ethyl Methacrylate	5.30	69	184524	51.48	ug/L	93
45) 1,3-Dichloropropane	6.45	76	464164	50.07	ug/L	99
46) 2-Hexanone	6.72	43	443917	131.27	ug/L	98
48) Dibromochloromethane	6.38	129	328758	56.43	ug/L	100
49) 1,2-Dibromoethane (EDB)	6.58	107	262122	54.09	ug/L	98

(#) = qualifier out of range (m) = manual integration
 3801038.D 011615RC.M Mon Feb 02 09:50:19 2015

Data File : C:\HPCHEM\1\DATA\012915\3801038.D

Vial: 38

Acq On : 30 Jan 2015 12:06 am

Operator: GJD

Sample : lcsd 50ppb

Inst : GC/MS #2

Misc : qc

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 2 9:44 2015

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)

Title : 8260 voa analysis

Last Update : Thu Jan 29 17:20:40 2015

Response via : Initial Calibration

DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.11	166	350543	62.21	ug/L	98
51) 1,1,1,2-Tetrachloroethane	7.02	131	287027	55.26	ug/L	99
52) Chlorobenzene	6.98	112	750448	54.74	ug/L	99
53) Ethylbenzene	6.98	91	1368817	54.15	ug/L	98
54) m,p-Xylene	7.09	91	2102438	107.96	ug/L	99
55) Bromoform	7.52	173	176916	54.17	ug/L	98
56) Styrene	7.49	104	808051	53.19	ug/L	97
57) 1,1,2,2-Tetrachloroethane	8.11	83	310642	51.75	ug/L	99
58) o-Xylene	7.45	106	470045	53.32	ug/L	98
59) trans-1,4-Dichloro-2-buten	8.27	53	103801	56.80	ug/L	97
60) 1,2,3-Trichloropropane	8.24	75	398758	54.74	ug/L #	98
61) Isopropylbenzene	7.71	105	1293560	54.47	ug/L	99
63) Bromobenzene	8.05	156	277970	52.64	ug/L	96
64) N-propylbenzene	8.05	91	1647174	54.19	ug/L	100
65) 2-Chlorotoluene	8.21	91	1061649	54.16	ug/L	99
66) 4-Chlorotoluene	8.35	126	298098	52.46	ug/L	96
68) 1,3,5-Trimethylbenzene	8.22	105	1016308	57.00	ug/L	99
69) tert-Butylbenzene	8.51	119	1038918	55.71	ug/L	96
70) 1,2,4-Trimethylbenzene	8.57	105	1021428	54.47	ug/L #	98
71) sec-Butylbenzene	8.67	105	1432450	57.65	ug/L #	98
72) 1,3-Dichlorobenzene	8.87	146	539668	53.88	ug/L	97
73) 1,4-Dichlorobenzene	8.95	148	336988	52.81	ug/L	96
74) p-Isopropyltoluene	8.79	119	1145296	56.47	ug/L	98
75) 1,2-Dichlorobenzene	9.34	146	506832	54.54	ug/L	98
76) N-Butylbenzene	9.17	91	1177476	56.71	ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.09	155	40250	54.25	ug/L	94
78) 1,2,4-Trichlorobenzene	10.73	180	288008	50.71	ug/L	97
79) Naphthalene	11.05	128	642414	47.84	ug/L	99
80) Hexachloro-1,3-butadiene	10.69	225	170569	54.72	ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	264647	52.44	ug/L	98
82) 1-methylnaphthalene	12.27	142	276956	49.48	ug/L	98
83) 2-methylnaphthalene	12.10	142	380482	51.57	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

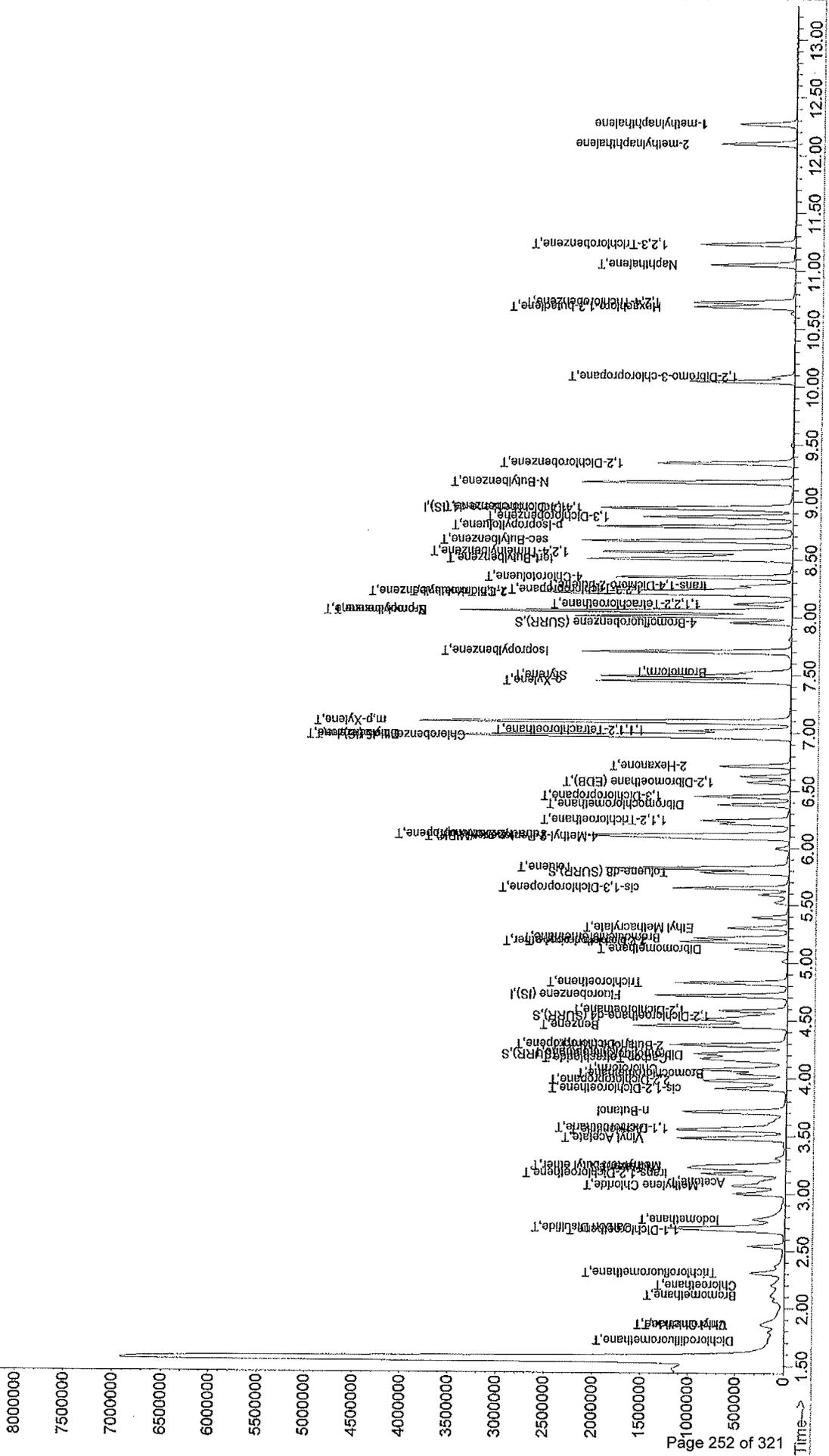
Data File : C:\HPCHEM\1\DATA\012915\3801038.D
Acq On : 30 Jan 2015 12:06 am
Sample : lcsd 50ppb
Misc : gc
MS Integration Params: rteint.p
Quant Time: Feb 2 9:44 2015

Vial: 38
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 011615RC.RES

Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Thu Jan 29 17:20:40 2015
Response via : Initial Calibration

TIC: 3801038.D





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8260 VOC

- Raw Sample Data

Data File : C:\HPCHEM\1\DATA\013015C\4401044.D
 Acq On : 31 Jan 2015 4:26 am
 Sample : 1334
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 1 4:33 2015

Vial: 44
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	371861	50.00	ppb	0.01
47) Chlorobenzene-d5 (IS)	5.46	117	195313	50.00	ppb	0.03
67) 1,4-Dichlorobenzene (IS)	7.25	152	33179	50.00	ppb	0.03

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	114311	53.08	ppb	0.01
Spiked Amount	50.000	Range 54 - 140	Recovery	=	106.16%	
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	131680	50.42	ppb	0.02
Spiked Amount	50.000	Range 54 - 138	Recovery	=	100.84%	
42) Toluene-d8 (SURR)	4.43	98	331908	50.98	ppb	0.02
Spiked Amount	50.000	Range 61 - 127	Recovery	=	101.96%	
62) 4-Bromofluorobenzene (SURR)	6.35	95	95874	46.76	ppb	0.02
Spiked Amount	50.000	Range 69 - 131	Recovery	=	93.52%	

Target Compounds

Qvalue

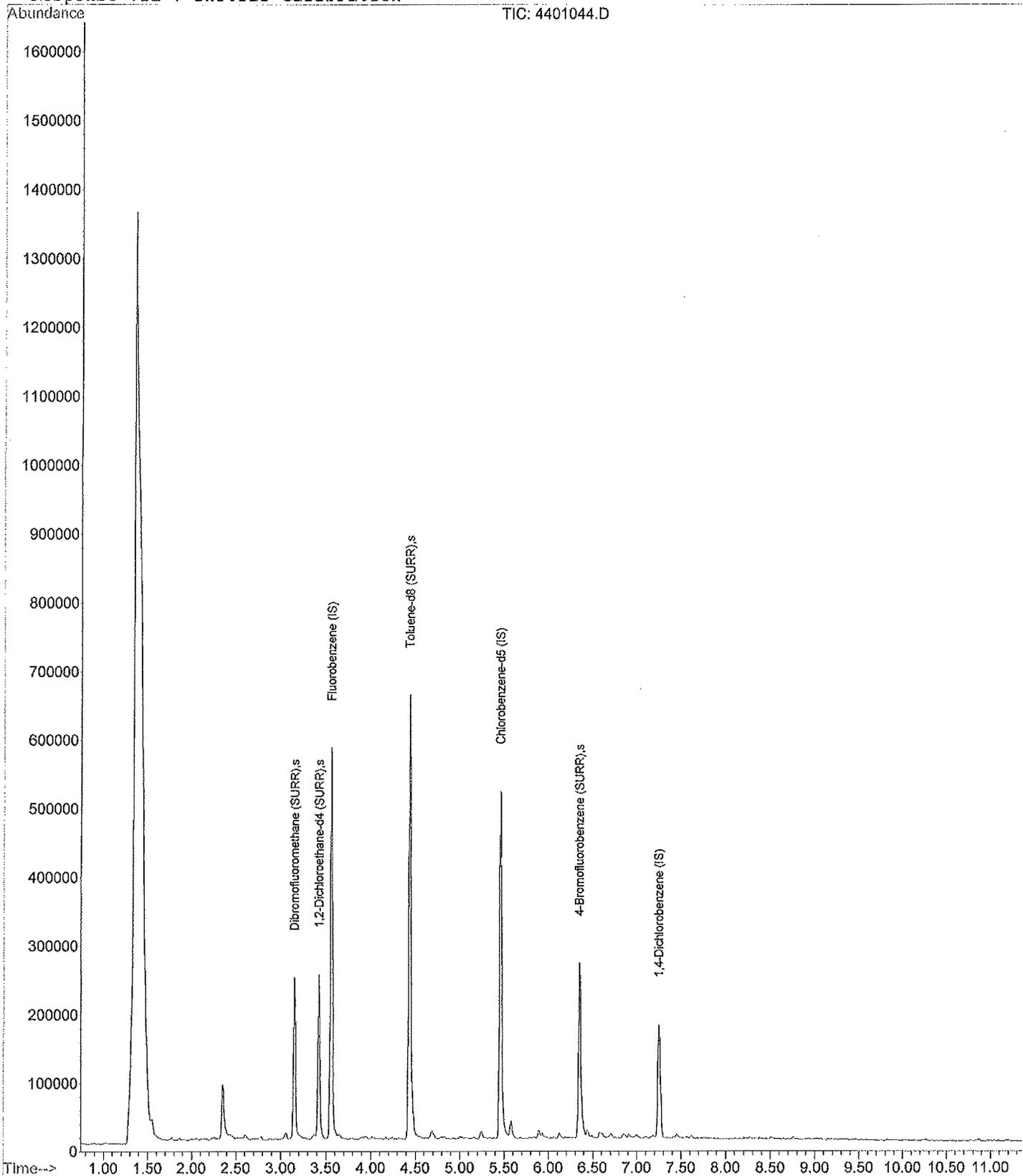
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\4401044.D
Acq On : 31 Jan 2015 4:26 am
Sample : 1334
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 1 4:33 2015

Vial: 44
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\4501045.D Vial: 45
 Acq On : 31 Jan 2015 4:45 am Operator: gjd
 Sample : 1335 Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 1 5:03 2015 Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	334563	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.46	117	175503	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.25	152	23138	50.00	ppb	0.03

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.15	113	109361	56.44	ppb	0.02
Spiked Amount	50.000	Range	54 - 140	Recovery	=	112.88%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	120877	51.44	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.88%
42) Toluene-d8 (SURR)	4.43	98	323955	55.31	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	110.62%
62) 4-Bromofluorobenzene (SURR)	6.35	95	81414	44.19	ppb	0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	88.38%

Target Compounds Qvalue

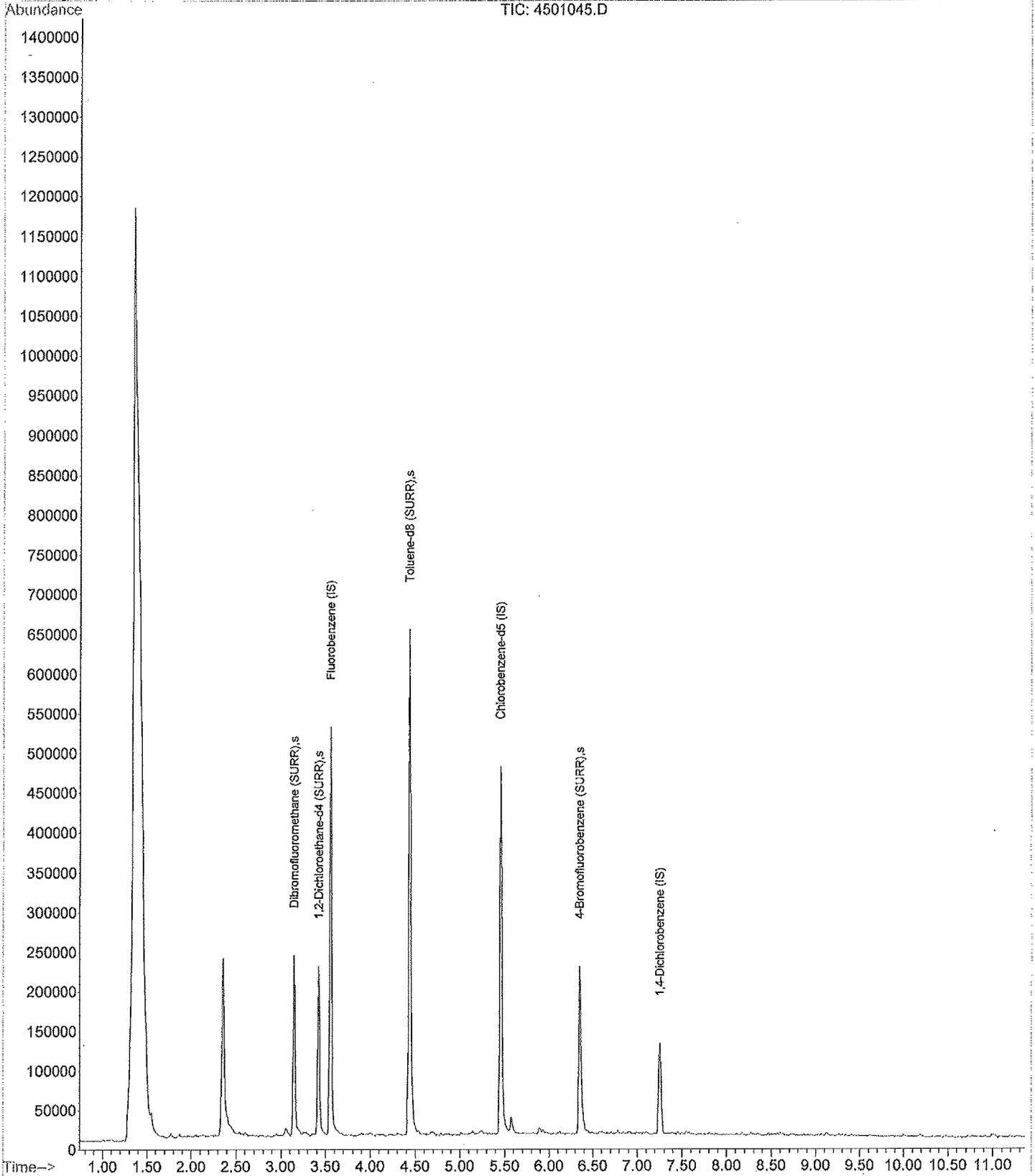
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\4501045.D
Acq On : 31 Jan 2015 4:45 am
Sample : 1335
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 1 5:03 2015

Vial: 45
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\4601046.D
 Acq On : 31 Jan 2015 5:04 am
 Sample : 1336
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:30 2015

Vial: 46
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	374658	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.45	117	194038	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.25	152	44309	50.00	ppb	0.02

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.15	113	111243	51.27	ppb	0.02
Spiked Amount	50.000	Range	54 - 140	Recovery	=	102.54%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	127902	48.60	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	97.20%
42) Toluene-d8 (SURR)	4.43	98	328151	50.03	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	100.06%
62) 4-Bromofluorobenzene (SURR)	6.35	95	99826	49.00	ppb	0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	98.00%

Target Compounds Qvalue

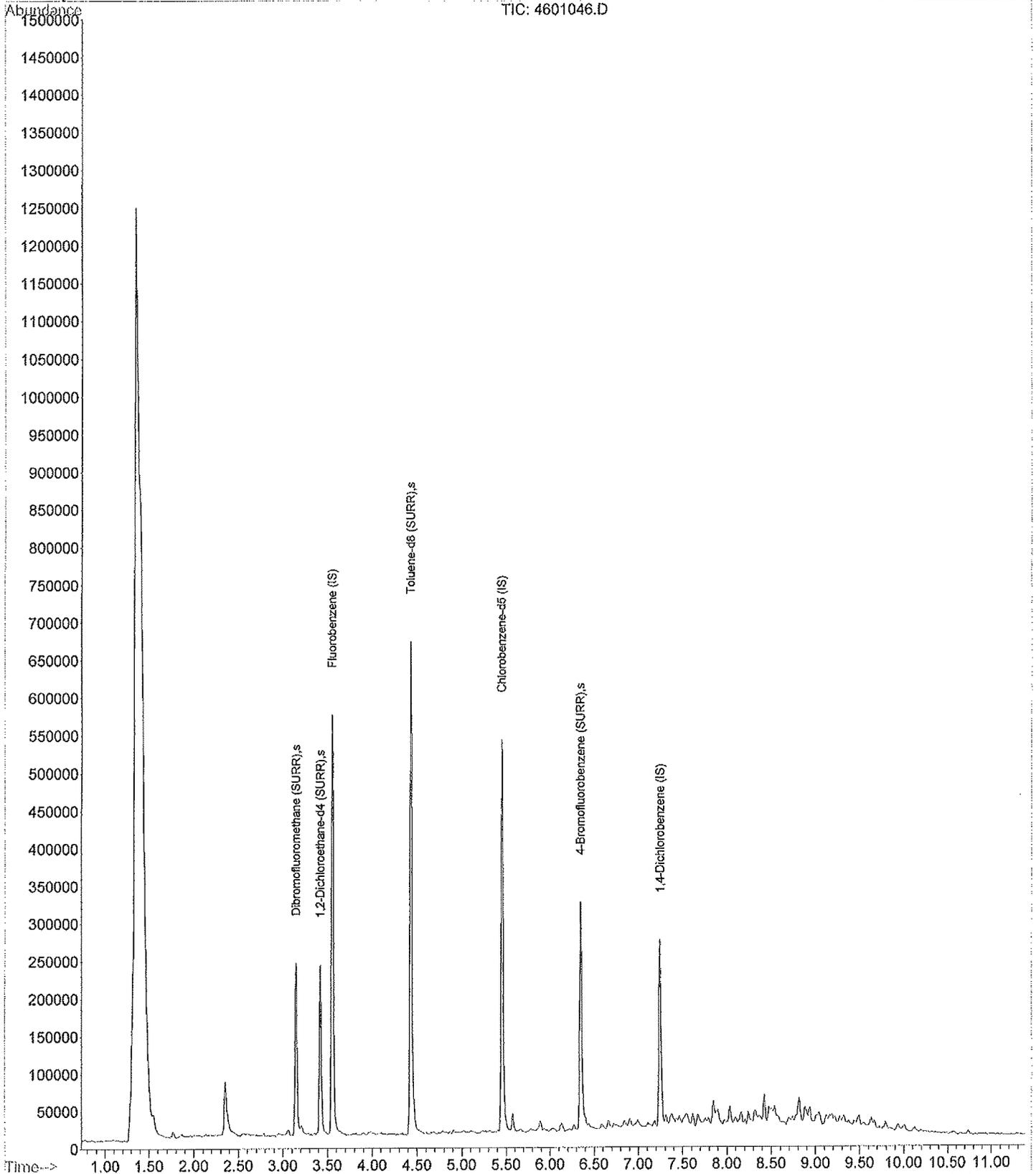
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\4601046.D
Acq On : 31 Jan 2015 5:04 am
Sample : 1336
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:30 2015

Vial: 46
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\4801048.D
 Acq On : 31 Jan 2015 5:41 am
 Sample : 1337
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:30 2015

Vial: 48
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEC\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	377135	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.46	117	203611	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.25	152	40736	50.00	ppb	0.02

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	110902	50.78	ppb	0.02
Spiked Amount	50.000	Range	54 - 140	Recovery	=	101.56%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	123134	46.48	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	92.96%
42) Toluene-d8 (SURR)	4.43	98	340801	51.61	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	103.22%
62) 4-Bromofluorobenzene (SURR)	6.35	95	103743	48.53	ppb	0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	97.06%

Target Compounds

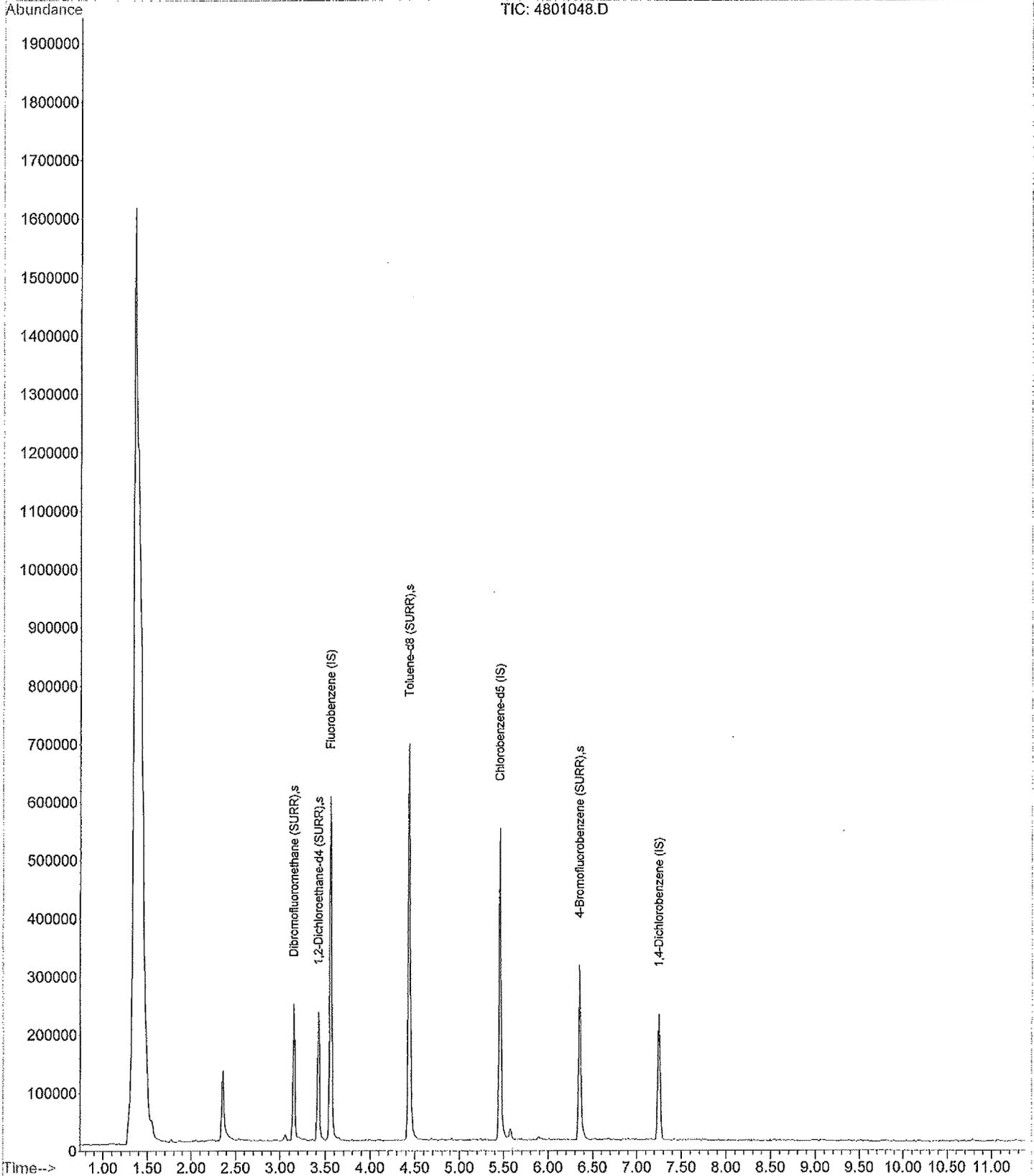
Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\4801048.D Vial: 48
Acq On : 31 Jan 2015 5:41 am Operator: gjd
Sample : 1337 Inst : VOC 1
Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 2 11:30 2015 Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration

TIC: 4801048.D



Data File : C:\HPCHEM\1\DATA\013015C\4901049.D
 Acq On : 31 Jan 2015 6:00 am
 Sample : 1338
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:31 2015

Vial: 49
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	394778	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.45	117	218646	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.25	152	43884	50.00	ppb	0.03

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	114340	50.01	ppb	0.02
Spiked Amount	50.000	Range 54 - 140	Recovery	=	100.02%	
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	126406	45.59	ppb	0.02
Spiked Amount	50.000	Range 54 - 138	Recovery	=	91.18%	
42) Toluene-d8 (SURR)	4.43	98	365620	52.90	ppb	0.02
Spiked Amount	50.000	Range 61 - 127	Recovery	=	105.80%	
62) 4-Bromofluorobenzene (SURR)	6.35	95	114625	49.94	ppb	0.02
Spiked Amount	50.000	Range 69 - 131	Recovery	=	99.88%	

Target Compounds

Qvalue

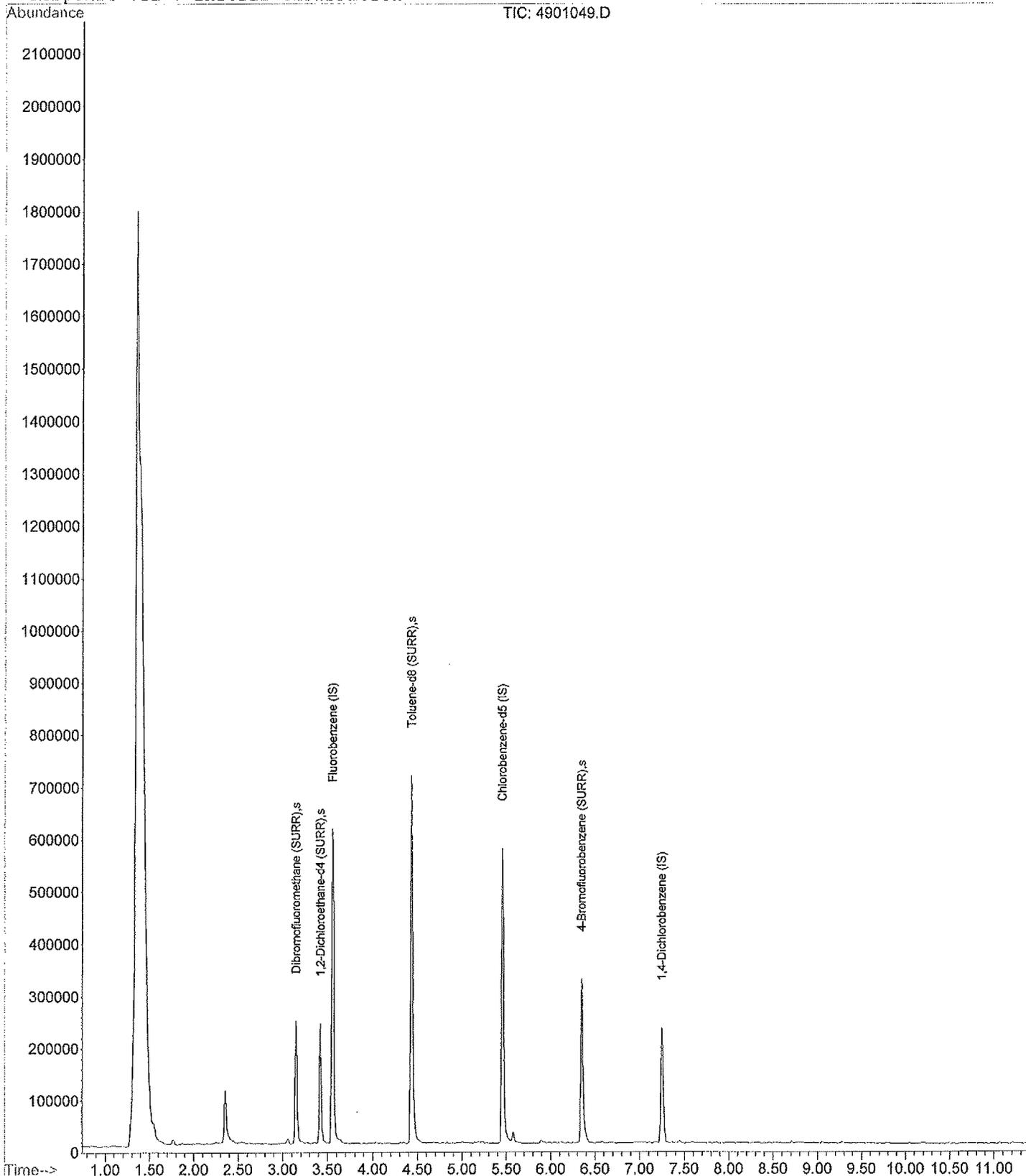
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\4901049.D
Acq On : 31 Jan 2015 6:00 am
Sample : 1338
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:31 2015

Vial: 49
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\5001050.D
 Acq On : 31 Jan 2015 6:18 am
 Sample : 1339
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:31 2015

Vial: 50
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	350957	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.46	117	164911	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.25	152	26627	50.00	ppb	0.02

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.15	113	108939	53.60	ppb	0.02
Spiked Amount	50.000	Range 54 - 140	Recovery	=	107.20%	
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	126560	51.34	ppb	0.02
Spiked Amount	50.000	Range 54 - 138	Recovery	=	102.68%	
42) Toluene-d8 (SURR)	4.43	98	295194	48.04	ppb	0.02
Spiked Amount	50.000	Range 61 - 127	Recovery	=	96.08%	
62) 4-Bromofluorobenzene (SURR)	6.35	95	75942	43.86	ppb	0.02
Spiked Amount	50.000	Range 69 - 131	Recovery	=	87.72%	

Target Compounds Qvalue

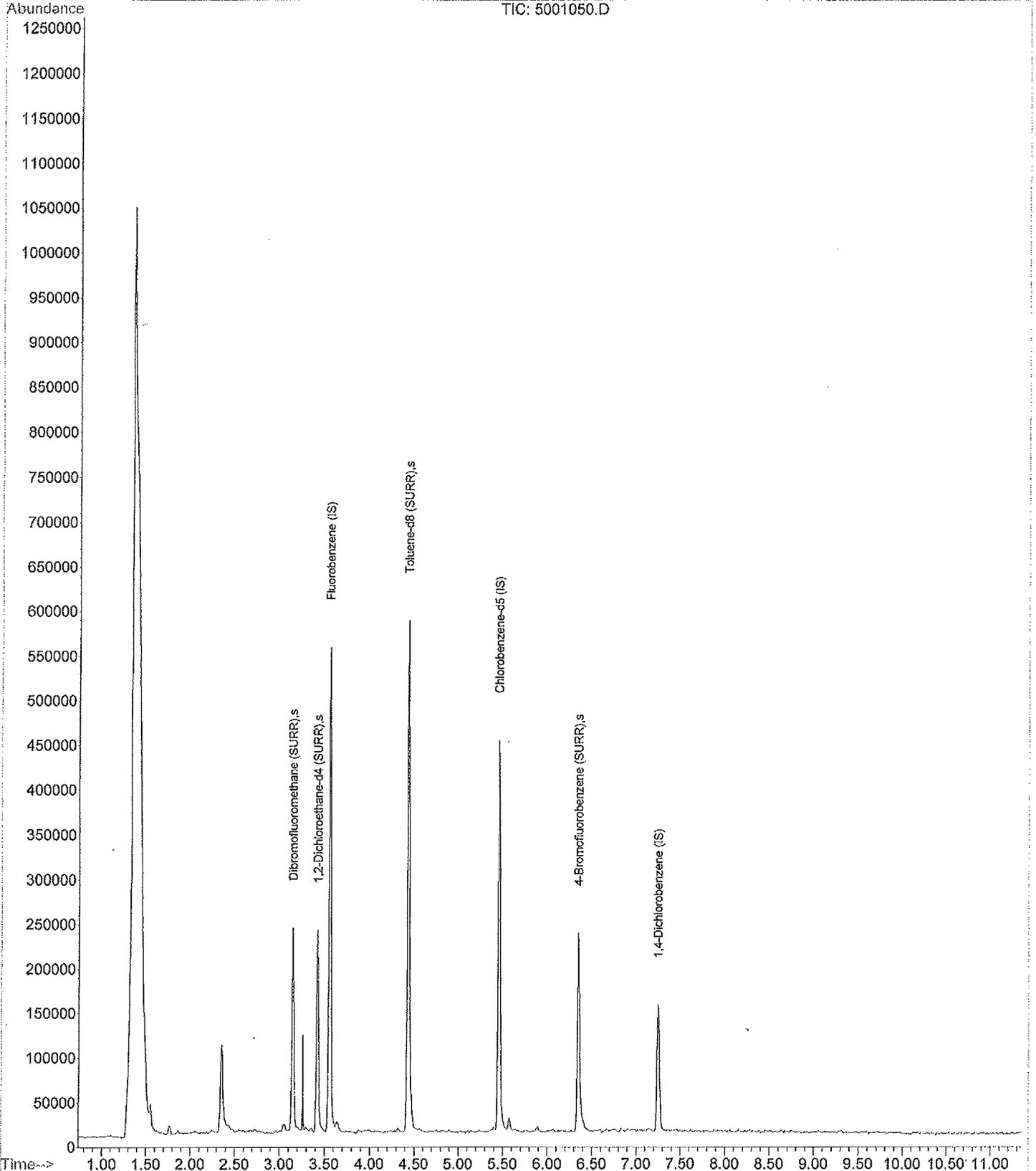
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\5001050.D
Acq On : 31 Jan 2015 6:18 am
Sample : 1339
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:31 2015

Vial: 50
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\5101051.D
 Acq On : 31 Jan 2015 6:37 am
 Sample : 1340
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:32 2015

Vial: 51
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	369224	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.46	117	187628	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.25	152	33504	50.00	ppb	0.02

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	107429	50.24	ppb	0.02
Spiked Amount	50.000	Range	54 - 140	Recovery	=	100.48%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	124785	48.12	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	96.24%
42) Toluene-d8 (SURR)	4.43	98	326231	50.47	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	100.94%
62) 4-Bromofluorobenzene (SURR)	6.35	95	90637	46.01	ppb	0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	92.02%

Target Compounds

Qvalue

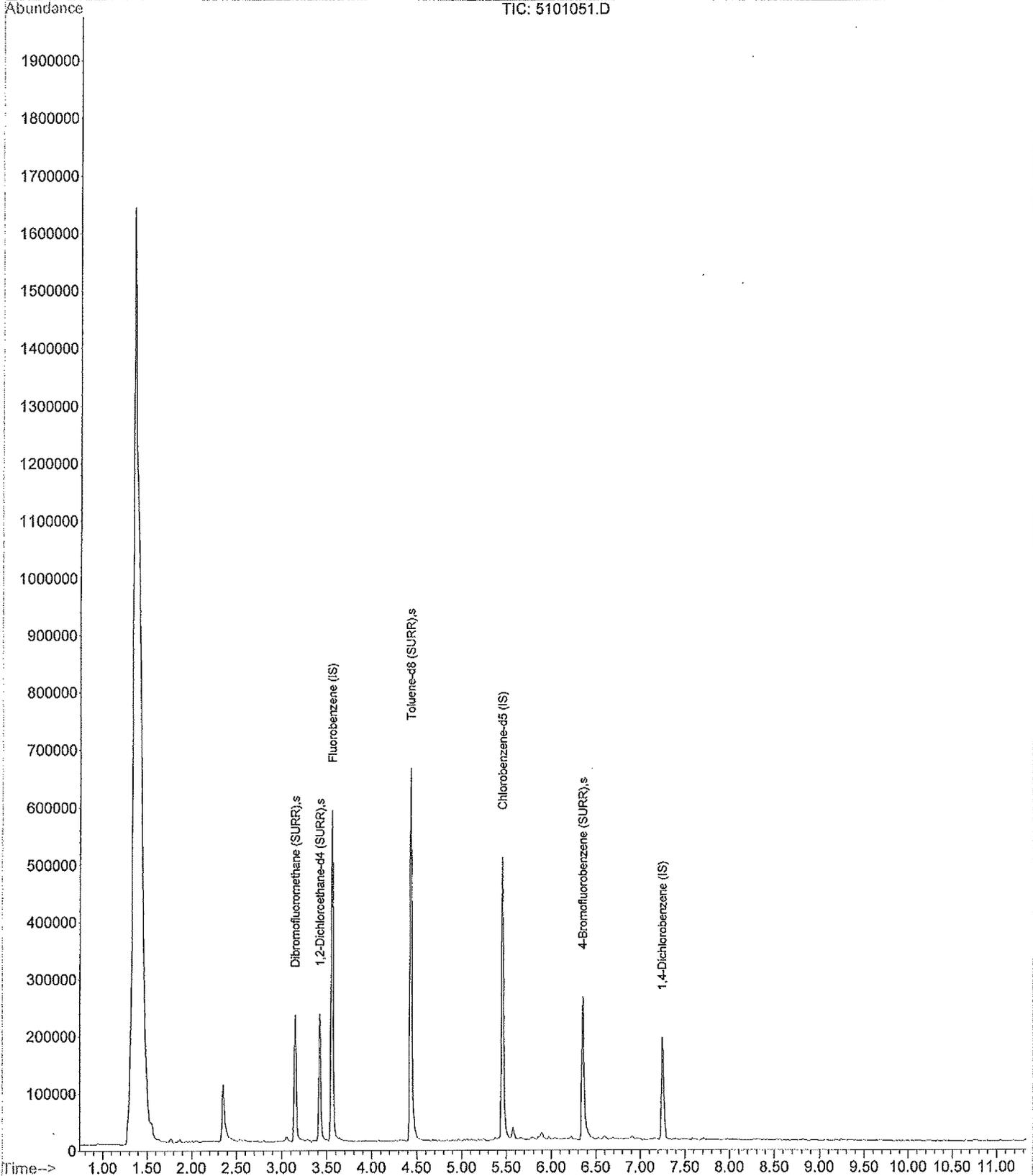
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\5101051.D
Acq On : 31 Jan 2015 6:37 am
Sample : 1340
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:32 2015

Vial: 51
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\5201052.D
 Acq On : 31 Jan 2015 6:55 am
 Sample : 1341
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:33 2015

Vial: 52
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.56	96	385461	50.00	ppb	0.02
47) Chlorobenzene-d5 (IS)	5.46	117	188120	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.24	152	37444	50.00	ppb	0.02

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	115440	51.71	ppb	0.02
Spiked Amount	50.000	Range 54 - 140	Recovery =	103.42%		
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	138835	51.28	ppb	0.02
Spiked Amount	50.000	Range 54 - 138	Recovery =	102.56%		
42) Toluene-d8 (SURR)	4.44	98	301780	44.72	ppb	0.02
Spiked Amount	50.000	Range 61 - 127	Recovery =	89.44%		
62) 4-Bromofluorobenzene (SURR)	6.35	95	97907	49.57	ppb	0.02
Spiked Amount	50.000	Range 69 - 131	Recovery =	99.14%		

Target Compounds

Qvalue

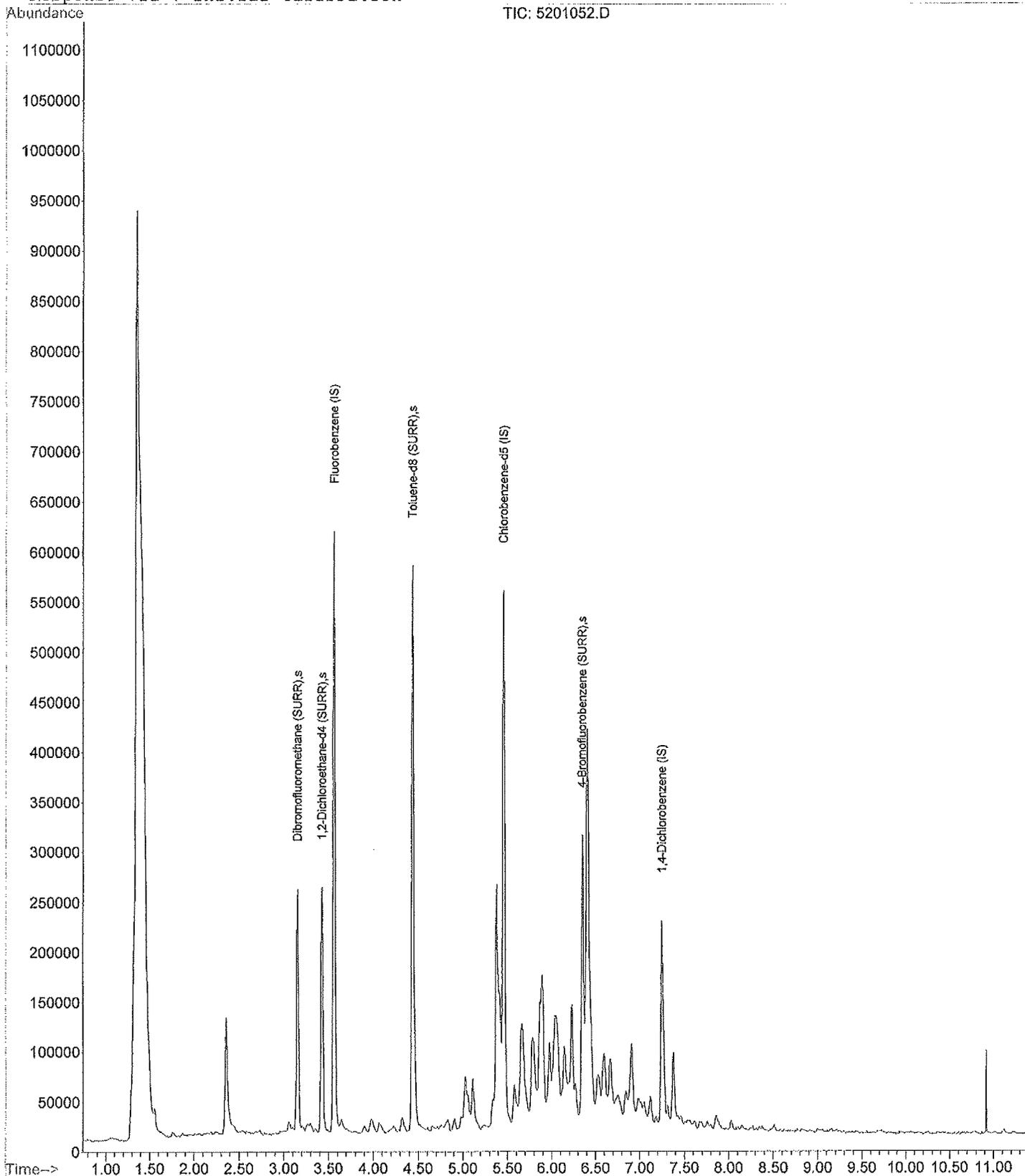
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\5201052.D
Acq On : 31 Jan 2015 6:55 am
Sample : 1341
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:33 2015

Vial: 52
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\013015C\5301053.D
 Acq On : 31 Jan 2015 7:14 am
 Sample : 1342
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:33 2015

Vial: 53
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.55	96	371568	50.00	ppb	0.01
47) Chlorobenzene-d5 (IS)	5.45	117	185657	50.00	ppb	0.02
67) 1,4-Dichlorobenzene (IS)	7.24	152	39222	50.00	ppb	0.02

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	109796	51.02	ppb	0.01
Spiked Amount	50.000	Range	54 - 140	Recovery	=	102.04%
27) 1,2-Dichloroethane-d4 (SUR)	3.42	65	126304	48.40	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	96.80%
42) Toluene-d8 (SURR)	4.43	98	320066	49.20	ppb	0.02
Spiked Amount	50.000	Range	61 - 127	Recovery	=	98.40%
62) 4-Bromofluorobenzene (SURR)	6.35	95	92123	47.26	ppb	0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	94.52%

Target Compounds

Qvalue

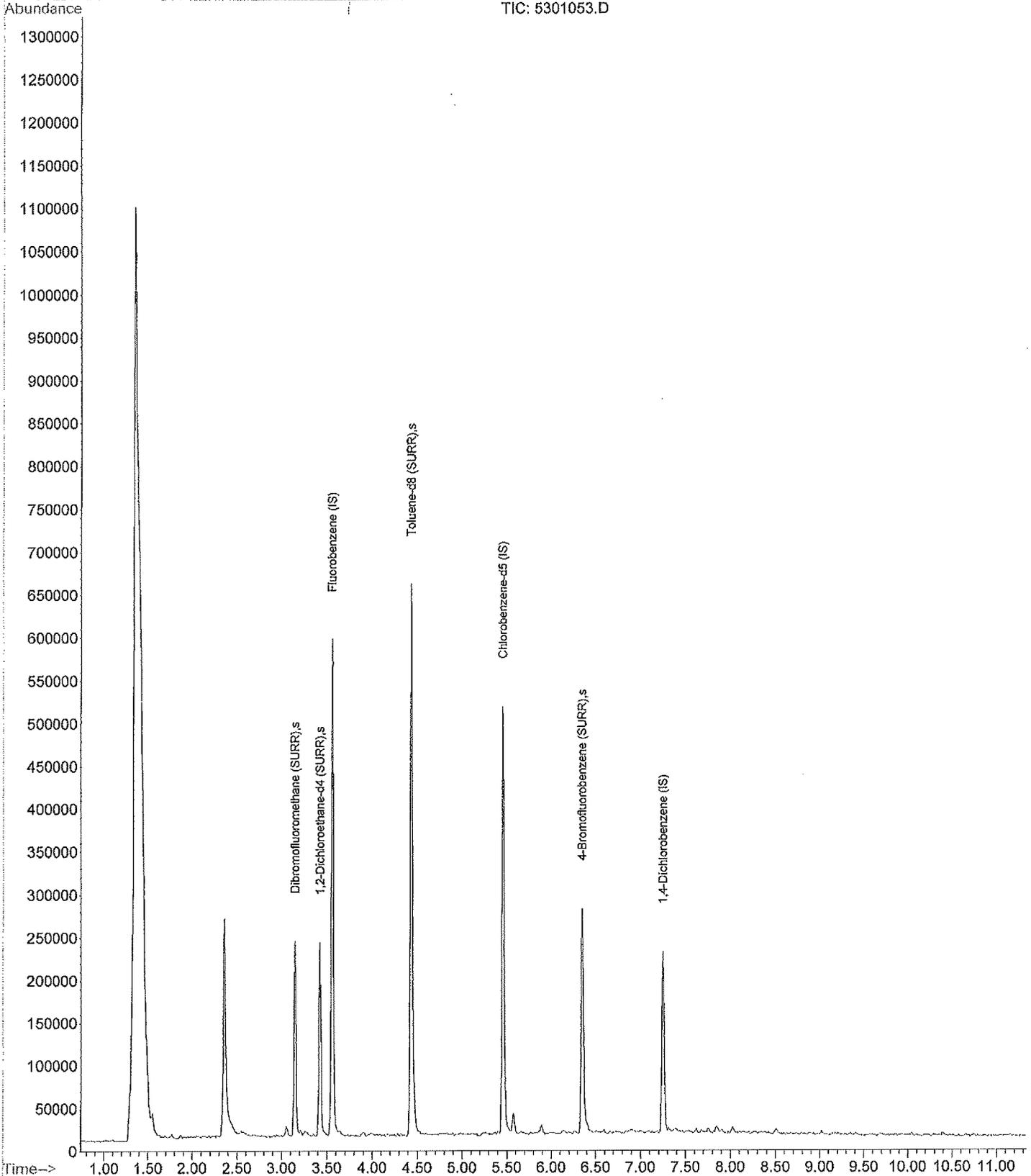
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\5301053.D
Acq On : 31 Jan 2015 7:14 am
Sample : 1342
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:33 2015

Vial: 53
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\012915\5301053.D
 Acq On : 30 Jan 2015 5:12 am
 Sample : 15-1343 tb
 Misc : a

Vial: 53
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 2 9:47 2015

Quant Results File: 011615RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\011615RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Thu Jan 29 17:20:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	535017	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.95	117	406101	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	172170	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.19	113	158496	50.13	ug/L	0.00
Spiked Amount	50.000	Range 69 - 137	Recovery	=	100.26%	
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	185726	51.28	ug/L	0.00
Spiked Amount	50.000	Range 67 - 144	Recovery	=	102.56%	
42) Toluene-d8 (SURR)	5.78	98	436767	46.96	ug/L	0.00
Spiked Amount	50.000	Range 60 - 128	Recovery	=	93.92%	
62) 4-Bromofluorobenzene (SURR)	7.95	95	184109	43.28	ug/L	0.00
Spiked Amount	50.000	Range 62 - 145	Recovery	=	86.56%	

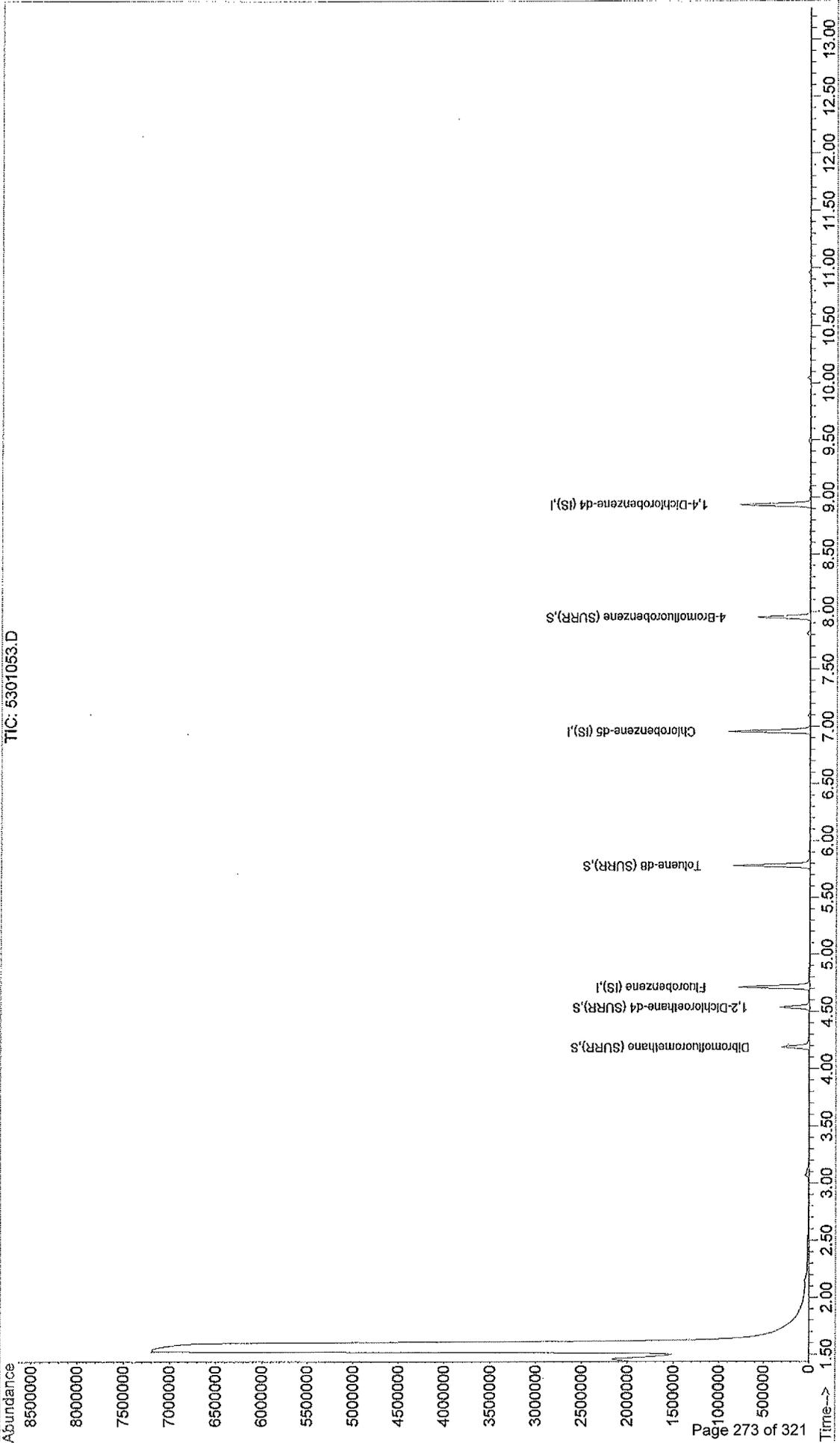
Target Compounds

Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\012915\5301053.D
Acq On : 30 Jan 2015 5:12 am
Sample : 15-1343 tb
Misc : a
MS Integration Params: rteint.p
Quant Time: Feb 2 9:47 2015
Vial: 53
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00
Quant Results File: 011615RC.RES

Method : F:\HPCHEM\1\METHODS\011615RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Thu Jan 29 17:20:40 2015
Response via : Initial Calibration



Level 4 QA/QC Package

Project # 2015-186

Metals

• Sequence Log

ENVISION LABS

Analytical Sequence

Method : 051914 Total Met Ax

Seq.	Loc.	Sample ID
1	1	Calib Blank
2	2	STD1
3	3	STD 1A
4	4	STD2
5	5	STD2A
6	6	STD3
7	7	STD3A
8	38	ICV
9	39	ICB
10	40	ICSA
11	41	ICSA-B
12	42	LCS
13	43	MB
14	44	LCS2
15	45	MB2
16	46	LCS3
17	47	MB3
18	48	1374
19	49	1360
20	50	1361
21	51	1362
22	52	1364
23	53	1365
24	54	1367
25	55	1369
26	56	1370
27	57	CCV
28	58	CCB
29	59	1371
30	60	1372
31	61	1344
32	62	1081 R
33	63	1082
34	64	1083
35	65	1084
36	66	1085
37	67	1086
38	68	1086MS
39	69	CCV
40	70	CCB
41	71	1086MSD
42	72	1087
43	73	1088
44	74	1089
45	75	1090
46	76	1091
47	77	1092
48	78	1093
49	79	1094
50	80	1095
51	81	CCV
52	82	CCB
53	83	1096
54	84	1097
55	85	1098
56	86	1099

Analytical Sequence

Method : 051914 Total Met Ax

Seq.	Loc.	Sample ID
57	87	1100
58	88	1101
59	89	1102
60	90	1103
61	91	1104
62	92	1105
63	93	CCV
64	94	CCB
65	95	1106
66	96	1107
67	97	1108
68	98	1109
69	99	1110
70	100	1111
71	101	1112
72	102	1113
73	103	1114
74	104	1114MS
75	105	CCV
76	106	CCB
77	107	1114MSD
78	108	1115
79	109	1116
80	110	1117
81	111	1118
82	112	1119
83	113	1120
84	114	1333
85	115	1333MS
86	116	1333MSD
87	117	CCV
88	118	CCB
89	119	1334
90	120	1335
91	121	1336
92	14	1337
93	15	1338
94	16	1339
95	17	1340
96	18	1341
97	19	1342
98	20	CCV
99	21	CCB

Analytical Sequence

Method : 051914 Total Met Ax

Seq.	Loc.	Sample ID	Status
1	38	ICV	
2	39	ICB	
3	40	ICSA	Analyzed
4	41	ICSA-B	Analyzed
5	42	LCS	Analyzed
6	43	MB	Analyzed
7	44	LCS2	Analyzed
8	45	MB2	Analyzed
9	46	LCS3	Analyzed
10	47	MB3	Analyzed
11	48	1374	Analyzed
12	49	1360	Analyzed
13	50	1361	Analyzed
14	51	1362	Analyzed
15	52	1364	Analyzed
16	53	1365	Analyzed
17	54	1367	Analyzed
18	55	1369	Analyzed
19	56	1370	Analyzed
20	57	CCV	Analyzed
21	58	CCB	Analyzed
22	59	1371	Analyzed
23	60	1372	Analyzed
24	61	1344	Analyzed
25	62	1081 R	Analyzed
26	63	1082	Analyzed
27	64	1083	Being Analyzed
28	65	1084	
29	66	1085	
30	67	1086	
31	68	1086MS	
32	69	CCV	
33	70	CCB	
34	71	1086MSD	
35	72	1087	
36	73	1088	
37	74	1089	
38	75	1090	
39	76	1091	
40	77	1092	
41	78	1093	
42	79	1094	
43	80	1095	
44	81	CCV	
45	82	CCB	
46	83	1096	
47	84	1097	
48	85	1098	
49	86	1099	
50	87	1100	
51	88	1101	
52	89	1102	
53	90	1103	
54	91	1104	
55	92	1105	
56	93	CCV	

Analytical Sequence

Method : 051914 Total Met Ax

Seq.	Loc.	Sample ID	Status
57	94	CCB	
58	95	1106	
59	96	1107	
60	97	1108	
61	98	1109	
62	99	1110	
63	100	1111	
64	101	1112	
65	102	1113	
66	103	1114	
67	104	1114MS	
68	105	CCV	
69	106	CCB	
70	107	1114MSD	
71	108	1115	
72	109	1116	
73	110	1117	
74	111	1118	
75	112	1119	
76	113	1120	
77	114	1333	
78	115	1333MS	
79	116	1333MSD	
80	117	CCV	
81	118	CCB	
82	119	1334	
83	120	1335	
84	121	1336	
85	14	Sample014	
86	15	Sample015	
87	16	Sample016	
88	17	Sample017	
89	18	Sample018	
90	19	Sample019	
91	20	Sample020	
92	21	CCV	
93	22	CCB	
94	23	Sample023	
95	24	Sample024	
96	25	Sample025	
97	26	Sample026	
98	27	Sample027	
99	28	Sample028	
100	29	Sample029	
101	30	Sample030	
102	31	Sample031	
103	32	Sample032	
104	33	CCV	
105	34	CCB	
106	35	Sample035	
107	36	Sample036	
108	37	Sample037	
109	38	Sample038	
110	39	Sample039	
111	40	Sample040	
112	41	Sample041	

Analytical Sequence

Method : 051914 Total Met Ax

Seq.	Loc.	Sample ID	Status
113	42	Sample042	
114	43	Sample043	
115	44	Sample044	
116	45	CCV	
117	46	CCB	
118	47	Sample047	
119	48	Sample048	
120	49	Sample049	
121	50	Sample050	
122	51	Sample051	
123	52	Sample052	
124	53	Sample053	
125	54	Sample054	
126	55	Sample055	
127	56	Sample056	
128	57	CCV	
129	58	CCB	
130	59	Sample059	
131	60	Sample060	
132	61	Sample061	
133	62	Sample062	
134	63	Sample063	
135	64	Sample064	
136	65	Sample065	
137	66	Sample066	
138	67	Sample067	
139	68	Sample068	
140	69	CCV	
141	70	CCB	
142	71	Sample071	
143	72	Sample072	
144	73	Sample073	
145	74	Sample074	
146	75	Sample075	
147	76	Sample076	
148	77	Sample077	
149	78	Sample078	
150	79	Sample079	
151	80	Sample080	
152	81	CCV	
153	82	CCB	
154	83	Sample083	
155	84	Sample084	
156	85	Sample085	
157	86	Sample086	
158	87	Sample087	
159	88	Sample088	
160	89	Sample089	
161	90	Sample090	
162	91	Sample091	
163	92	Sample092	



ENVision Laboratories, Inc.
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Indianapolis, IN 46239
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Fax: 317.351.8639
www.envisionlaboratories.com

Metals Initial Calibration Data

- Initial Calibration Summary
- Initial Calibration
Verification Summary

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
ICV	Y 371.029	100	1/28/15	10:26	3331960	0.472927	15757.74	%
ICV	Al 394.401	0.712108	1/28/15	10:26	22228.88	0.932759	207.342	mg/L
ICV	B 249.772	0.656882	1/28/15	10:26	38336.64	0.358428	137.4092	mg/L
ICV	Ba 233.527	0.546835	1/28/15	10:26	22225.34	0.401815	89.30474	mg/L
ICV	Ba 413.065	0.629372	1/28/15	10:26	65608.36	0.3658	239.9953	mg/L
ICV	Be 234.861	0.569354	1/28/15	10:26	246770	0.371194	915.9951	mg/L
ICV	Be 313.042	0.604332	1/28/15	10:26	2508387	0.557778	13991.22	mg/L
ICV	Fe 238.204	0.546007	1/28/15	10:26	21348.93	0.565366	120.6996	mg/L
ICV	Pb 220.353	0.514678	1/28/15	10:27	1404.062	0.512905	7.201496	mg/L
ICV	Mn 257.610	0.570674	1/28/15	10:26	252555.2	0.392328	990.8451	mg/L
ICV	Ni 231.604	0.535408	1/28/15	10:26	10006.65	0.727833	72.8317	mg/L
ICV	Se 196.026	0.516661	1/28/15	10:27	201.4426	2.321568	4.676628	mg/L
ICV	Ag 328.068	0.507798	1/28/15	10:26	94476.94	0.443952	419.4321	mg/L
ICV	Ag 338.289	0.469585	1/28/15	10:26	61055.31	0.409652	250.1145	mg/L
ICV	Tl 351.924	0.569046	1/28/15	10:26	2548.109	1.05624	26.91415	mg/L
ICV	As 193.696	0.530602	1/28/15	10:27	254.5843	0.718477	1.829129	mg/L
ICV	As 197.197	0.533468	1/28/15	10:27	131.6192	0.864482	1.137824	mg/L
ICV	Ba 230.425	0.509735	1/28/15	10:26	24045.44	0.282205	67.85736	mg/L
ICV	V 292.402	0.552153	1/28/15	10:26	48462.81	0.473998	229.713	mg/L
ICV	Zn 213.857	0.549768	1/28/15	10:26	17214.44	0.477201	82.14741	mg/L
ICV	Zn 202.548	0.516177	1/28/15	10:26	6766.961	0.324266	21.94298	mg/L
ICV	Mo 203.845	0.420557	1/28/15	10:27	1372.635	0.592243	8.129331	mg/L
ICV	Mo 204.597	0.416851	1/28/15	10:27	1625.782	0.322225	5.238682	mg/L
ICV	Cr 205.560	0.502738	1/28/15	10:26	6170.466	0.516598	31.87652	mg/L
ICV	Mn 260.568	0.583392	1/28/15	10:26	136708.4	0.411269	562.2387	mg/L
ICV	Ni 221.648	0.524887	1/28/15	10:26	2062.65	0.988704	20.3935	mg/L
ICV	Mg 279.077	0.486879	1/28/15	10:26	6367.807	0.516722	32.90386	mg/L
ICV	Sb 206.836	0.58631	1/28/15	10:27	688.5401	0.405295	2.790622	mg/L
ICV	Sb 217.582	0.529135	1/28/15	10:27	633.6594	0.30246	1.916565	mg/L
ICV	Sb 231.146	1.496844	1/28/15	10:26	3802.564	0.159069	6.048686	mg/L
ICV	Cr 284.325	0.559924	1/28/15	10:26	38093.99	0.432793	164.8682	mg/L
ICV	Cd 228.802	0.519378	1/28/15	10:26	13767.34	0.544793	75.00356	mg/L
ICV	Cd 214.440	0.564386	1/28/15	10:26	25460.19	0.339487	86.43414	mg/L
ICV	Cd 226.502	0.565918	1/28/15	10:26	19267.58	0.45533	87.73101	mg/L
ICV	Cu 324.752	0.528487	1/28/15	10:26	161838.6	0.394073	637.7619	mg/L
ICV	Cu 327.393	0.540617	1/28/15	10:26	62738.28	0.516922	324.3078	mg/L
ICV	Co 238.892	0.041469	1/28/15	10:26	1560.753	1.644694	25.66962	mg/L
ICV	Fe 239.562	0.532405	1/28/15	10:26	18675.43	0.514429	96.07182	mg/L
ICV	Fe 259.939	0.563284	1/28/15	10:26	66510.88	0.570234	379.2677	mg/L
ICV	Fe 234.349	0.540969	1/28/15	10:26	12624.59	0.450243	56.84131	mg/L
ICV	Mn 259.372	0.518513	1/28/15	10:26	233563.6	0.443927	1036.852	mg/L
ICV	Cr 267.716	0.602797	1/28/15	10:26	26674.38	0.410773	109.571	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
ICB	Y 371.029	94.56917	1/28/15	10:31	3151007	0.546505	17220.41	%
ICB	Al 394.401	0.015102	1/28/15	10:31	174.0233	15.36754	26.74311	mg/L
ICB	B 249.772	0.021237	1/28/15	10:31	1909.993	1.731782	33.07691	mg/L
ICB	Ba 233.527	-0.0037	1/28/15	10:31	-4.37089	33.30526	1.455737	mg/L
ICB	Ba 413.065	-0.00257	1/28/15	10:31	111.133	10.21	11.34667	mg/L
ICB	Be 234.861	0.001575	1/28/15	10:31	92.60176	10.81921	10.01878	mg/L
ICB	Be 313.042	-0.00043	1/28/15	10:31	2042.203	10.06132	205.4725	mg/L
ICB	Fe 238.204	-0.01584	1/28/15	10:31	123.6574	7.631244	9.436597	mg/L
ICB	Pb 220.353	-0.00995	1/28/15	10:31	-76.6414	6.021419	4.614898	mg/L
ICB	Mn 257.610	-0.00076	1/28/15	10:31	273.3639	6.140829	16.78681	mg/L
ICB	Ni 231.604	0.002204	1/28/15	10:31	43.71258	11.39637	4.981646	mg/L
ICB	Se 196.026	-0.01749	1/28/15	10:31	-1.04408	223.5809	2.334374	mg/L
ICB	Ag 328.068	-0.02213	1/28/15	10:31	-2541.2	2.992292	76.03997	mg/L
ICB	Ag 338.289	0.00383	1/28/15	10:31	-2.13247	117.4844	2.505316	mg/L
ICB	Tl 351.924	-0.00283	1/28/15	10:31	1.575788	1032.578	16.27125	mg/L
ICB	As 193.696	-0.00137	1/28/15	10:31	0.661438	336.9012	2.228391	mg/L
ICB	As 197.197	-0.03757	1/28/15	10:31	-1.9486	29.80298	0.580741	mg/L
ICB	Ba 230.425	-0.01862	1/28/15	10:31	29.39626	10.02501	2.946978	mg/L
ICB	V 292.402	0.004442	1/28/15	10:31	5.608857	258.5034	14.49908	mg/L
ICB	Zn 213.857	-0.05663	1/28/15	10:31	-3036.9	0.198363	6.024098	mg/L
ICB	Zn 202.548	-0.03908	1/28/15	10:31	-1257.54	0.164135	2.064076	mg/L
ICB	Mo 203.845	-0.07713	1/28/15	10:31	6.745302	39.58613	2.670204	mg/L
ICB	Mo 204.597	-0.07417	1/28/15	10:31	14.99452	4.781506	0.716964	mg/L
ICB	Cr 205.560	-0.00331	1/28/15	10:31	6.111882	9.209737	0.562888	mg/L
ICB	Mn 260.568	0.001174	1/28/15	10:31	145.9292	9.788411	14.28415	mg/L
ICB	Ni 221.648	0.00276	1/28/15	10:31	0.658467	531.6697	3.50087	mg/L
ICB	Mg 279.077	-0.14346	1/28/15	10:31	28.41162	16.60734	4.718415	mg/L
ICB	Sb 208.836	0.079436	1/28/15	10:31	-0.27218	1341.546	3.651404	mg/L
ICB	Sb 217.582	0.015796	1/28/15	10:31	2.806931	42.32376	1.187999	mg/L
ICB	Sb 231.146	0.011619	1/28/15	10:31	7.333173	23.12404	1.695726	mg/L
ICB	Cr 284.325	-0.01727	1/28/15	10:31	-988.366	1.20801	11.93956	mg/L
ICB	Cd 228.802	-0.00231	1/28/15	10:31	-18.5813	19.39899	3.604577	mg/L
ICB	Cd 214.440	0.000161	1/28/15	10:31	41.2284	5.238535	2.159764	mg/L
ICB	Cd 226.502	-0.00101	1/28/15	10:31	20.4651	25.4684	5.212135	mg/L
ICB	Cu 324.752	-0.00095	1/28/15	10:31	125.9603	1.751551	2.206259	mg/L
ICB	Cu 327.393	0.002622	1/28/15	10:31	-163.831	19.47508	31.90619	mg/L
ICB	Co 238.892	-0.0086	1/28/15	10:31	1.21123	588.1395	7.123719	mg/L
ICB	Fe 239.562	-0.01428	1/28/15	10:31	119.2766	2.046191	2.440626	mg/L
ICB	Fe 259.939	-0.0139	1/28/15	10:31	326.3387	4.329003	14.12721	mg/L
ICB	Fe 234.349	-0.02555	1/28/15	10:31	-155.39	4.753241	7.386038	mg/L
ICB	Mn 259.372	-0.03237	1/28/15	10:31	299.6833	3.818484	11.44336	mg/L
ICB	Cr 267.716	-0.00074	1/28/15	10:31	32.44933	9.268924	3.007704	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
ICSA	Y 371.029	77.13931	1/28/15	10:37	2570251	0.606737	15594.65	%
ICSA	Al 394.401	565.796	1/28/15	10:37	17902777	0.582315	104250.6	mg/L
ICSA	B 249.772	0.528692	1/28/15	10:37	30990.49	1.704365	528.1911	mg/L
ICSA	Ba 233.527	0.000606	1/28/15	10:38	169.6768	0.939783	1.594593	mg/L
ICSA	Ba 413.065	-0.00339	1/28/15	10:37	26.11519	171.6794	44.8344	mg/L
ICSA	Be 234.861	-0.39961	1/28/15	10:37	-174207	0.90177	1570.943	mg/L
ICSA	Be 313.042	0.000779	1/28/15	10:37	7057.489	3.357685	236.9683	mg/L
ICSA	Fe 238.204	115.1525	1/28/15	10:37	4350911	0.703082	30590.48	mg/L
ICSA	Pb 220.353	-0.02422	1/28/15	10:38	-116.923	8.464534	9.896945	mg/L
ICSA	Mn 257.610	-0.00064	1/28/15	10:37	325.9307	42.67205	139.0813	mg/L
ICSA	Ni 231.604	0.003549	1/28/15	10:38	68.86004	5.893792	4.058467	mg/L
ICSA	Se 196.026	-0.10009	1/28/15	10:38	-32.3573	9.953419	3.220662	mg/L
ICSA	Ag 328.068	-0.01484	1/28/15	10:37	-1207.61	9.654204	116.5854	mg/L
ICSA	Ag 338.289	0.005728	1/28/15	10:37	246.667	23.34396	57.58186	mg/L
ICSA	Tl 351.924	-0.00242	1/28/15	10:38	3.43023	163.638	5.613158	mg/L
ICSA	As 193.696	-0.02304	1/28/15	10:38	-9.68167	59.59224	5.769523	mg/L
ICSA	As 197.197	-0.01252	1/28/15	10:38	3.910307	68.88517	2.693621	mg/L
ICSA	Ba 230.425	-0.01701	1/28/15	10:38	102.3023	6.921144	7.080491	mg/L
ICSA	V 292.402	-0.01826	1/28/15	10:38	-2002.65	0.83582	16.73859	mg/L
ICSA	Zn 213.857	-0.01301	1/28/15	10:38	-1580.06	0.752874	11.89589	mg/L
ICSA	Zn 202.548	-0.11776	1/28/15	10:37	-2394.63	1.24414	29.7926	mg/L
ICSA	Mo 203.845	-0.08151	1/28/15	10:38	-5.28352	45.4871	2.403321	mg/L
ICSA	Mo 204.597	-0.06177	1/28/15	10:38	55.66025	2.011409	1.119555	mg/L
ICSA	Cr 205.560	-0.00587	1/28/15	10:38	-25.0044	19.81085	4.953584	mg/L
ICSA	Mn 260.568	0.012274	1/28/15	10:38	2749.457	3.185617	87.58715	mg/L
ICSA	Ni 221.648	-0.00072	1/28/15	10:38	-13.0888	11.16728	1.461668	mg/L
ICSA	Mg 279.077	440.0795	1/28/15	10:37	4427434	0.783117	34671.97	mg/L
ICSA	Sb 206.836	0.067643	1/28/15	10:38	-16.299	19.52143	3.181807	mg/L
ICSA	Sb 217.582	-0.07508	1/28/15	10:38	-108.872	13.67272	14.88575	mg/L
ICSA	Sb 231.146	0.01058	1/28/15	10:38	4.677203	29.40479	1.375322	mg/L
ICSA	Cr 284.325	-0.00801	1/28/15	10:37	-361.601	19.05211	68.89269	mg/L
ICSA	Cd 228.802	-0.00264	1/28/15	10:38	-27.1814	10.01055	2.721003	mg/L
ICSA	Cd 214.440	0.010733	1/28/15	10:38	517.5078	3.153611	16.32018	mg/L
ICSA	Cd 226.502	0.030599	1/28/15	10:38	1093.705	1.071212	11.7159	mg/L
ICSA	Cu 324.752	-0.01973	1/28/15	10:37	-5609.99	0.502035	28.16415	mg/L
ICSA	Cu 327.393	-0.00556	1/28/15	10:38	-1120.74	0.518124	5.806822	mg/L
ICSA	Co 238.892	31.91768	1/28/15	10:37	994405.8	0.778164	7738.11	mg/L
ICSA	Fe 239.562	119.8428	1/28/15	10:37	4068408	0.744808	30301.81	mg/L
ICSA	Fe 259.939	121.6049	1/28/15	10:37	13946166	0.732621	102172.5	mg/L
ICSA	Fe 234.349	130.6522	1/28/15	10:37	2947771	0.770504	22712.69	mg/L
ICSA	Mn 259.372	0.126454	1/28/15	10:37	67551.29	1.505093	1016.71	mg/L
ICSA	Cr 267.716	0.009373	1/28/15	10:38	478.8968	2.576655	12.33952	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
ICSA-B	Y 371.029	77.33986	1/28/15	10:43	2576933	0.445413	11478	%
ICSA-B	Al 394.401	549.2614	1/28/15	10:43	17379584	0.503067	87430.96	mg/L
ICSA-B	B 249.772	0.988938	1/28/15	10:44	57365.63	0.853647	489.6999	mg/L
ICSA-B	Ba 233.527	0.402616	1/28/15	10:44	16402.08	1.030165	168.9685	mg/L
ICSA-B	Ba 413.065	0.457974	1/28/15	10:44	47843.97	1.075472	514.5484	mg/L
ICSA-B	Be 234.861	0.068164	1/28/15	10:44	29022.75	3.550558	1030.469	mg/L
ICSA-B	Be 313.042	0.449242	1/28/15	10:44	1865641	0.52674	9827.079	mg/L
ICSA-B	Fe 238.204	112.445	1/28/15	10:44	4248629	0.541037	22986.65	mg/L
ICSA-B	Pb 220.353	0.341563	1/28/15	10:44	915.4651	0.801054	7.333369	mg/L
ICSA-B	Mn 257.610	0.402838	1/28/15	10:44	178456.5	0.898312	1603.097	mg/L
ICSA-B	Ni 231.604	0.358562	1/28/15	10:44	6702.285	0.739903	49.59044	mg/L
ICSA-B	Se 196.026	0.280245	1/28/15	10:44	111.822	2.293575	2.564722	mg/L
ICSA-B	Ag 328.068	0.437129	1/28/15	10:44	81538.94	0.687726	560.7649	mg/L
ICSA-B	Ag 338.289	0.403336	1/28/15	10:44	52370.49	0.85877	449.7421	mg/L
ICSA-B	Tl 351.924	0.507455	1/28/15	10:44	2273.848	0.208899	4.750038	mg/L
ICSA-B	As 193.696	0.424704	1/28/15	10:44	204.0365	2.286509	4.665312	mg/L
ICSA-B	As 197.197	0.40914	1/28/15	10:44	102.5384	0.961234	0.985634	mg/L
ICSA-B	Ba 230.425	0.370423	1/28/15	10:44	17713.07	1.119884	198.3659	mg/L
ICSA-B	V 292.402	0.409144	1/28/15	10:44	35810.52	0.887894	317.9596	mg/L
ICSA-B	Zn 213.857	0.430702	1/28/15	10:44	13238.14	1.249409	165.3985	mg/L
ICSA-B	Zn 202.548	0.236724	1/28/15	10:44	2728.347	1.450965	39.58737	mg/L
ICSA-B	Mo 203.845	0.291731	1/28/15	10:44	1019.075	1.204736	12.27716	mg/L
ICSA-B	Mo 204.597	0.305203	1/28/15	10:44	1259.518	0.259678	3.270694	mg/L
ICSA-B	Cr 205.560	0.362209	1/28/15	10:44	4458.639	0.518442	23.11548	mg/L
ICSA-B	Mn 260.568	0.42264	1/28/15	10:44	99003.16	0.875064	866.3413	mg/L
ICSA-B	Ni 221.648	0.366449	1/28/15	10:44	1436.943	0.290795	4.178564	mg/L
ICSA-B	Mg 279.077	426.8364	1/28/15	10:44	4294246	0.475057	20400.11	mg/L
ICSA-B	Sb 206.836	0.462768	1/28/15	10:44	520.6533	0.62606	3.259604	mg/L
ICSA-B	Sb 217.582	0.326278	1/28/15	10:44	384.3647	1.55757	5.986749	mg/L
ICSA-B	Sb 231.146	1.009372	1/28/15	10:44	2556.914	0.730291	18.67291	mg/L
ICSA-B	Cr 284.325	0.416947	1/28/15	10:44	28412.92	1.02759	291.9682	mg/L
ICSA-B	Cd 228.802	0.407144	1/28/15	10:44	10801.48	0.570193	61.58926	mg/L
ICSA-B	Cd 214.440	0.386999	1/28/15	10:44	17468.68	1.040766	181.808	mg/L
ICSA-B	Cd 226.502	0.41787	1/28/15	10:44	14241.39	1.051395	149.7334	mg/L
ICSA-B	Cu 324.752	0.456311	1/28/15	10:44	139793	0.990938	1385.262	mg/L
ICSA-B	Cu 327.393	0.484491	1/28/15	10:44	56176.01	0.919289	516.4201	mg/L
ICSA-B	Co 238.892	31.12803	1/28/15	10:44	969810.7	0.493326	4784.33	mg/L
ICSA-B	Fe 239.562	117.0869	1/28/15	10:44	3974866	0.419798	16686.39	mg/L
ICSA-B	Fe 259.939	118.3052	1/28/15	10:43	13567787	0.418404	56768.19	mg/L
ICSA-B	Fe 234.349	127.3059	1/28/15	10:44	2872281	0.553389	15894.88	mg/L
ICSA-B	Mn 259.372	0.511743	1/28/15	10:44	230696.7	0.912835	2105.88	mg/L
ICSA-B	Cr 267.716	0.452997	1/28/15	10:44	20061.79	1.105772	221.8376	mg/L



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Metals

Continuing Calibration Data

- Continuing Calibration Verification Summary
- Continuing Calibration Blank Verification Summary

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	101.6794	1/28/15	12:01	3387916	0.273958	9281.475	%
CCV	Al 394.401	0.703773	1/28/15	12:01	21965.16	0.770257	169.1883	mg/L
CCV	B 249.772	0.648746	1/28/15	12:01	37870.4	0.795385	301.2153	mg/L
CCV	Ba 233.527	0.528312	1/28/15	12:01	21477.42	0.634751	136.328	mg/L
CCV	Ba 413.065	0.600717	1/28/15	12:01	62638.42	0.248311	155.5381	mg/L
CCV	Be 234.861	0.561034	1/28/15	12:01	243155.3	0.261455	635.7414	mg/L
CCV	Be 313.042	0.594348	1/28/15	12:01	2467011	0.353426	8719.065	mg/L
CCV	Fe 238.204	0.541795	1/28/15	12:01	21189.8	0.443902	94.06202	mg/L
CCV	Pb 220.353	0.497269	1/28/15	12:01	1354.928	0.346147	4.690046	mg/L
CCV	Mn 257.610	0.554486	1/28/15	12:01	245408.1	0.344773	846.1008	mg/L
CCV	Ni 231.604	0.521267	1/28/15	12:01	9742.447	1.025396	99.89865	mg/L
CCV	Se 196.026	0.539019	1/28/15	12:01	209.9183	2.452221	5.147659	mg/L
CCV	Ag 328.068	0.469327	1/28/15	12:01	87433.68	3.220122	2815.471	mg/L
CCV	Ag 338.289	0.432325	1/28/15	12:01	56170.73	3.128743	1757.438	mg/L
CCV	Tl 351.924	0.553673	1/28/15	12:01	2479.654	2.167233	53.73988	mg/L
CCV	As 193.696	0.52576	1/28/15	12:01	252.2732	0.882282	2.225762	mg/L
CCV	As 197.197	0.516682	1/28/15	12:01	127.6929	1.599712	2.042718	mg/L
CCV	Ba 230.425	0.493773	1/28/15	12:01	23319.88	0.732617	170.8454	mg/L
CCV	V 292.402	0.542444	1/28/15	12:01	47603.81	0.545413	259.6375	mg/L
CCV	Zn 213.857	0.537223	1/28/15	12:01	16795.5	0.878924	147.6196	mg/L
CCV	Zn 202.548	0.494763	1/28/15	12:01	6457.493	0.70902	45.78489	mg/L
CCV	Mo 203.845	0.407357	1/28/15	12:01	1336.407	0.299364	4.000719	mg/L
CCV	Mo 204.597	0.40397	1/28/15	12:01	1583.524	0.196426	3.110446	mg/L
CCV	Cr 205.560	0.490863	1/28/15	12:01	6025.816	0.731027	44.05033	mg/L
CCV	Mn 260.568	0.568082	1/28/15	12:01	133117.5	0.656288	873.6335	mg/L
CCV	Ni 221.648	0.510885	1/28/15	12:01	2007.353	0.609529	12.2354	mg/L
CCV	Mg 279.077	0.473046	1/28/15	12:01	6228.683	0.73235	45.61578	mg/L
CCV	Sb 206.836	0.579394	1/28/15	12:01	679.1415	0.461687	3.135509	mg/L
CCV	Sb 217.582	0.51773	1/28/15	12:01	619.6428	0.916141	5.676803	mg/L
CCV	Sb 231.146	1.454386	1/28/15	12:01	3694.071	0.607899	22.45623	mg/L
CCV	Cr 284.325	0.549237	1/28/15	12:01	37370.36	0.648635	242.3974	mg/L
CCV	Cd 228.802	0.509444	1/28/15	12:01	13504.82	0.654249	88.35517	mg/L
CCV	Cd 214.440	0.543173	1/28/15	12:01	24504.5	0.636866	156.0609	mg/L
CCV	Cd 226.502	0.550112	1/28/15	12:01	18730.96	0.657158	123.092	mg/L
CCV	Cu 324.752	0.52099	1/28/15	12:01	159548.7	0.272897	435.4038	mg/L
CCV	Cu 327.393	0.535318	1/28/15	12:01	62118.66	0.708206	439.9282	mg/L
CCV	Co 238.892	0.041225	1/28/15	12:01	1553.14	0.198456	3.082299	mg/L
CCV	Fe 239.562	0.533296	1/28/15	12:01	18705.67	0.457622	85.6013	mg/L
CCV	Fe 259.939	0.559183	1/28/15	12:01	66040.68	0.435191	287.403	mg/L
CCV	Fe 234.349	0.538494	1/28/15	12:01	12568.77	0.556261	69.91513	mg/L
CCV	Mn 259.372	0.503674	1/28/15	12:01	227280.2	0.354692	806.1437	mg/L
CCV	Cr 267.716	0.584327	1/28/15	12:01	25859.09	0.607674	157.1389	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	117.9962	1/28/15	12:05	3931585	0.142018	5583.551	%
CCB	Al 394.401	0.053087	1/28/15	12:05	1375.962	1.858797	25.57634	mg/L
CCB	B 249.772	0.054573	1/28/15	12:05	3820.395	1.771883	67.69294	mg/L
CCB	Ba 233.527	-0.00336	1/28/15	12:06	9.504453	29.50393	2.804187	mg/L
CCB	Ba 413.065	-0.00302	1/28/15	12:05	64.56619	54.48232	35.17716	mg/L
CCB	Be 234.861	0.001658	1/28/15	12:06	128.6111	3.703454	4.763051	mg/L
CCB	Be 313.042	-0.00068	1/28/15	12:05	995.9635	37.05868	369.091	mg/L
CCB	Fe 238.204	-0.00814	1/28/15	12:06	414.5771	2.624295	10.87972	mg/L
CCB	Pb 220.353	-0.00994	1/28/15	12:06	-76.6119	2.925972	2.241643	mg/L
CCB	Mn 257.610	-0.00046	1/28/15	12:06	402.751	1.861313	7.496459	mg/L
CCB	Ni 231.604	0.001819	1/28/15	12:06	36.53113	6.726476	2.457258	mg/L
CCB	Se 196.026	-0.01235	1/28/15	12:06	0.903078	220.2999	1.98948	mg/L
CCB	Ag 328.068	-0.02936	1/28/15	12:05	-3866.05	0.910088	35.18447	mg/L
CCB	Ag 338.289	0.004687	1/28/15	12:05	110.144	2.220271	2.445494	mg/L
CCB	Tl 351.924	-0.00139	1/28/15	12:05	8.018674	54.62271	4.380017	mg/L
CCB	As 193.696	-0.00466	1/28/15	12:06	-0.90763	151.0917	1.371353	mg/L
CCB	As 197.197	-0.03722	1/28/15	12:06	-1.86788	72.10406	1.346817	mg/L
CCB	Ba 230.425	-0.01825	1/28/15	12:06	46.03708	2.037016	0.937783	mg/L
CCB	V 292.402	0.00462	1/28/15	12:05	21.3873	86.56319	18.51353	mg/L
CCB	Zn 213.857	-0.0538	1/28/15	12:06	-2942.33	0.137049	4.032421	mg/L
CCB	Zn 202.548	-0.03613	1/28/15	12:06	-1214.84	0.153965	1.870421	mg/L
CCB	Mo 203.845	-0.07799	1/28/15	12:06	4.37956	8.189153	0.358649	mg/L
CCB	Mo 204.597	-0.07371	1/28/15	12:06	16.49253	12.13442	2.001272	mg/L
CCB	Cr 205.560	-0.00339	1/28/15	12:06	5.223196	42.43617	2.216524	mg/L
CCB	Mn 260.568	0.001492	1/28/15	12:06	220.339	3.430033	7.557701	mg/L
CCB	Ni 221.648	-0.00534	1/28/15	12:06	-31.3289	7.394591	2.316642	mg/L
CCB	Mg 279.077	-0.1382	1/28/15	12:06	81.26752	9.236911	7.506609	mg/L
CCB	Sb 206.836	0.079919	1/28/15	12:06	0.383126	479.5696	1.837356	mg/L
CCB	Sb 217.582	0.013313	1/28/15	12:06	-0.2442	154.9022	0.378278	mg/L
CCB	Sb 231.146	0.010759	1/28/15	12:06	5.135438	19.6054	1.006823	mg/L
CCB	Cr 284.325	-0.00787	1/28/15	12:05	-352.115	18.331	64.54618	mg/L
CCB	Cd 228.802	-0.00224	1/28/15	12:06	-16.6109	17.89136	2.971911	mg/L
CCB	Cd 214.440	0.000398	1/28/15	12:06	51.92024	2.869216	1.489704	mg/L
CCB	Cd 226.502	-0.00083	1/28/15	12:06	26.80711	19.64108	5.265205	mg/L
CCB	Cu 324.752	0.00227	1/28/15	12:05	1108.72	2.041851	22.6384	mg/L
CCB	Cu 327.393	0.003422	1/28/15	12:05	-70.2856	34.49565	24.24549	mg/L
CCB	Co 238.892	-0.00671	1/28/15	12:06	60.0384	5.591518	3.357058	mg/L
CCB	Fe 239.562	-0.00694	1/28/15	12:06	368.5434	2.534488	9.340686	mg/L
CCB	Fe 259.939	-0.00582	1/28/15	12:06	1253.075	2.9332	36.75521	mg/L
CCB	Fe 234.349	-0.01486	1/28/15	12:06	85.85364	7.668984	6.584102	mg/L
CCB	Mn 259.372	-0.03209	1/28/15	12:06	419.9109	3.538048	14.85665	mg/L
CCB	Cr 267.716	-0.0006	1/28/15	12:06	38.6945	27.4391	10.61742	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	102.4062	1/28/15	13:19	3412135	0.511457	17451.6	%
CCV	Al 394.401	0.778804	1/28/15	13:19	24339.32	2.054159	499.9683	mg/L
CCV	B 249.772	0.662992	1/28/15	13:19	38686.81	0.376765	145.7582	mg/L
CCV	Ba 233.527	0.550404	1/28/15	13:19	22369.45	0.439307	98.27063	mg/L
CCV	Ba 413.065	0.622698	1/28/15	13:19	64916.69	0.580828	377.0546	mg/L
CCV	Be 234.861	0.580778	1/28/15	13:19	251733.3	0.519526	1307.82	mg/L
CCV	Be 313.042	0.61189	1/28/15	13:19	2539711	0.593188	15065.27	mg/L
CCV	Fe 238.204	0.649033	1/28/15	13:19	25240.98	5.050499	1274.796	mg/L
CCV	Pb 220.353	0.515454	1/28/15	13:19	1406.252	0.266395	3.746192	mg/L
CCV	Mn 257.610	0.578076	1/28/15	13:19	255822.7	0.715231	1829.722	mg/L
CCV	Ni 231.604	0.539546	1/28/15	13:19	10083.98	0.513806	51.81206	mg/L
CCV	Se 196.026	0.533919	1/28/15	13:19	207.9849	0.209652	0.436044	mg/L
CCV	Ag 328.068	0.51561	1/28/15	13:19	95907.15	0.322327	309.1348	mg/L
CCV	Ag 338.289	0.477501	1/28/15	13:19	62092.96	0.417659	259.3366	mg/L
CCV	Tl 351.924	0.574967	1/28/15	13:19	2574.472	0.648817	16.70362	mg/L
CCV	As 193.696	0.533581	1/28/15	13:19	256.0064	1.064005	2.723921	mg/L
CCV	As 197.197	0.534019	1/28/15	13:19	131.7481	0.672489	0.885991	mg/L
CCV	Ba 230.425	0.513683	1/28/15	13:19	24224.91	0.560922	135.8829	mg/L
CCV	V 292.402	0.5614	1/28/15	13:19	49280.87	0.503984	248.3676	mg/L
CCV	Zn 213.857	0.554661	1/28/15	13:19	17377.84	0.706961	122.8546	mg/L
CCV	Zn 202.548	0.516127	1/28/15	13:19	6766.231	0.994378	67.28193	mg/L
CCV	Mo 203.845	0.423389	1/28/15	13:19	1380.408	0.178934	2.470014	mg/L
CCV	Mo 204.597	0.418793	1/28/15	13:19	1632.152	0.142366	2.323624	mg/L
CCV	Cr 205.560	0.509478	1/28/15	13:19	6252.566	0.339708	21.24047	mg/L
CCV	Mn 260.568	0.590228	1/28/15	13:19	138311.9	0.649962	898.9747	mg/L
CCV	Ni 221.648	0.520567	1/28/15	13:19	2045.588	0.452534	9.256975	mg/L
CCV	Mg 279.077	0.563909	1/28/15	13:19	7142.512	3.639293	259.937	mg/L
CCV	Sb 206.836	0.592048	1/28/15	13:19	696.337	0.213242	1.484884	mg/L
CCV	Sb 217.582	0.530056	1/28/15	13:19	634.791	0.438732	2.785031	mg/L
CCV	Sb 231.146	1.512111	1/28/15	13:19	3841.577	0.631572	24.26232	mg/L
CCV	Cr 284.325	0.570245	1/28/15	13:19	38792.81	0.497694	193.0693	mg/L
CCV	Cd 228.802	0.526278	1/28/15	13:19	13949.69	0.426404	59.482	mg/L
CCV	Cd 214.440	0.56386	1/28/15	13:19	25436.49	0.658014	167.3757	mg/L
CCV	Cd 226.502	0.56893	1/28/15	13:19	19369.81	0.593543	114.9681	mg/L
CCV	Cu 324.752	0.538159	1/28/15	13:19	164792.9	0.604065	995.4562	mg/L
CCV	Cu 327.393	0.550642	1/28/15	13:19	63910.36	0.32287	206.3477	mg/L
CCV	Co 238.892	0.064127	1/28/15	13:19	2266.472	9.578704	217.0987	mg/L
CCV	Fe 239.562	0.631322	1/28/15	13:19	22032.93	5.17129	1139.387	mg/L
CCV	Fe 259.939	0.668391	1/28/15	13:19	78563.29	4.998632	3927.09	mg/L
CCV	Fe 234.349	0.646397	1/28/15	13:19	15002.91	5.263642	789.6994	mg/L
CCV	Mn 259.372	0.526581	1/28/15	13:19	236979.6	0.732313	1735.433	mg/L
CCV	Cr 267.716	0.609046	1/28/15	13:19	26950.26	0.592679	159.7284	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	102.7931	1/28/15	13:23	3425025	0.078926	2703.24	%
CCB	Al 394.401	0.060411	1/28/15	13:23	1607.702	10.46238	168.2039	mg/L
CCB	B 249.772	0.030096	1/28/15	13:23	2417.668	3.598678	87.00409	mg/L
CCB	Ba 233.527	-0.00332	1/28/15	13:24	11.06219	48.84604	5.40344	mg/L
CCB	Ba 413.065	-0.00344	1/28/15	13:23	20.47774	42.72957	8.750052	mg/L
CCB	Be 234.861	0.001445	1/28/15	13:24	36.07622	22.96487	8.284856	mg/L
CCB	Be 313.042	-0.00077	1/28/15	13:23	631.634	38.2548	241.6304	mg/L
CCB	Fe 238.204	0.057315	1/28/15	13:24	2887.277	14.30352	412.9823	mg/L
CCB	Pb 220.353	-0.00796	1/28/15	13:24	-71.0319	0.876015	0.62225	mg/L
CCB	Mn 257.610	0.000941	1/28/15	13:24	1021.994	11.05427	112.974	mg/L
CCB	Ni 231.604	0.00244	1/28/15	13:24	48.136	1.974091	0.950249	mg/L
CCB	Se 196.026	-0.01409	1/28/15	13:24	0.24648	882.6777	2.175625	mg/L
CCB	Ag 328.068	-0.02461	1/28/15	13:23	-2995.29	3.135627	93.9212	mg/L
CCB	Ag 338.289	0.004459	1/28/15	13:23	80.21648	49.54422	39.74263	mg/L
CCB	Tl 351.924	-0.00426	1/28/15	13:23	-4.77529	883.97	42.2121	mg/L
CCB	As 193.696	0.001821	1/28/15	13:24	2.183362	34.92091	0.76245	mg/L
CCB	As 197.197	-0.03576	1/28/15	13:24	-1.52581	120.0605	1.8319	mg/L
CCB	Ba 230.425	-0.01824	1/28/15	13:24	46.54126	6.666441	3.102646	mg/L
CCB	V 292.402	0.004491	1/28/15	13:23	9.942889	67.21425	6.683038	mg/L
CCB	Zn 213.857	-0.05579	1/28/15	13:24	-3008.87	0.089596	2.695831	mg/L
CCB	Zn 202.548	-0.03795	1/28/15	13:24	-1241.27	0.065486	0.812856	mg/L
CCB	Mo 203.845	-0.0774	1/28/15	13:24	6.006118	26.47381	1.590048	mg/L
CCB	Mo 204.597	-0.0739	1/28/15	13:24	15.86289	15.93735	2.528123	mg/L
CCB	Cr 205.560	-0.00332	1/28/15	13:24	5.996061	19.21672	1.152246	mg/L
CCB	Mn 260.568	0.00287	1/28/15	13:24	543.6502	10.87132	59.10196	mg/L
CCB	Ni 221.648	-0.00355	1/28/15	13:24	-24.2506	16.62923	4.032686	mg/L
CCB	Mg 279.077	-0.08867	1/28/15	13:24	579.4299	14.04488	81.38025	mg/L
CCB	Sb 206.836	0.079606	1/28/15	13:24	-0.04142	6500.405	2.692334	mg/L
CCB	Sb 217.582	0.012336	1/28/15	13:24	-1.44495	293.5732	4.241971	mg/L
CCB	Sb 231.146	0.011916	1/28/15	13:24	8.09171	33.25747	2.691098	mg/L
CCB	Cr 284.325	-0.00895	1/28/15	13:23	-425.195	1.997007	8.491185	mg/L
CCB	Cd 228.802	-0.00224	1/28/15	13:24	-16.8432	14.88343	2.506853	mg/L
CCB	Cd 214.440	0.000328	1/28/15	13:24	48.7563	5.735154	2.796249	mg/L
CCB	Cd 226.502	-0.00066	1/28/15	13:24	32.57576	9.856247	3.210747	mg/L
CCB	Cu 324.752	0.00073	1/28/15	13:23	638.2349	3.094752	19.75179	mg/L
CCB	Cu 327.393	0.003086	1/28/15	13:23	-109.605	7.865765	8.621285	mg/L
CCB	Co 238.892	0.00787	1/28/15	13:24	514.2464	14.39762	74.03924	mg/L
CCB	Fe 239.562	0.053964	1/28/15	13:23	2435.791	13.50961	329.0658	mg/L
CCB	Fe 259.939	0.058707	1/28/15	13:23	8651.838	13.30857	1151.436	mg/L
CCB	Fe 234.349	0.048168	1/28/15	13:24	1507.63	16.09924	242.717	mg/L
CCB	Mn 259.372	-0.03068	1/28/15	13:24	1014.414	9.911114	100.5398	mg/L
CCB	Cr 267.716	-0.00056	1/28/15	13:24	40.34981	13.92085	5.617036	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	104.3411	1/28/15	14:39	3476603	0.931956	32400.42	%
CCV	Al 394.401	0.804751	1/28/15	14:40	25160.32	1.264611	318.1802	mg/L
CCV	B 249.772	0.651243	1/28/15	14:40	38013.49	0.064793	24.63002	mg/L
CCV	Ba 233.527	0.552823	1/28/15	14:40	22467.13	0.40387	90.73801	mg/L
CCV	Ba 413.065	0.623062	1/28/15	14:39	64954.44	0.237176	154.0566	mg/L
CCV	Be 234.861	0.580735	1/28/15	14:39	251714.6	0.336758	847.6686	mg/L
CCV	Be 313.042	0.612348	1/28/15	14:39	2541607	0.32249	8196.441	mg/L
CCV	Fe 238.204	0.694524	1/28/15	14:40	26959.52	1.924457	518.8245	mg/L
CCV	Pb 220.353	0.520523	1/28/15	14:40	1420.56	0.595437	8.458537	mg/L
CCV	Mn 257.610	0.576832	1/28/15	14:39	255273.9	0.324574	828.5531	mg/L
CCV	Ni 231.604	0.543848	1/28/15	14:40	10164.36	0.428526	43.55691	mg/L
CCV	Se 196.026	0.535643	1/28/15	14:40	208.6385	0.879944	1.835902	mg/L
CCV	Ag 328.068	0.51831	1/28/15	14:40	96401.54	0.318565	307.1019	mg/L
CCV	Ag 338.289	0.479311	1/28/15	14:40	62330.25	0.418051	260.5723	mg/L
CCV	Tl 351.924	0.576855	1/28/15	14:40	2582.883	1.423866	36.77679	mg/L
CCV	As 193.696	0.535809	1/28/15	14:40	257.0696	0.666976	1.714592	mg/L
CCV	As 197.197	0.538434	1/28/15	14:40	132.7808	1.552328	2.061194	mg/L
CCV	Ba 230.425	0.517058	1/28/15	14:40	24378.29	0.549885	134.0525	mg/L
CCV	V 292.402	0.56326	1/28/15	14:40	49445.51	0.482972	238.8081	mg/L
CCV	Zn 213.857	0.560243	1/28/15	14:40	17564.25	0.238425	41.87765	mg/L
CCV	Zn 202.548	0.522379	1/28/15	14:40	6856.584	0.717763	49.21402	mg/L
CCV	Mo 203.845	0.424706	1/28/15	14:40	1384.023	0.274123	3.793919	mg/L
CCV	Mo 204.597	0.422386	1/28/15	14:40	1643.938	0.110417	1.81518	mg/L
CCV	Cr 205.560	0.513661	1/28/15	14:40	6303.526	0.598948	37.75482	mg/L
CCV	Mn 260.568	0.592561	1/28/15	14:40	138859.2	0.419206	582.1067	mg/L
CCV	Ni 221.648	0.530196	1/28/15	14:40	2083.614	0.954511	19.88832	mg/L
CCV	Mg 279.077	0.564291	1/28/15	14:40	7146.35	1.464729	104.6747	mg/L
CCV	Sb 206.836	0.595631	1/28/15	14:40	701.2058	0.865441	6.068522	mg/L
CCV	Sb 217.582	0.536966	1/28/15	14:40	643.2828	0.939243	6.041988	mg/L
CCV	Sb 231.146	1.514301	1/28/15	14:40	3847.172	0.588761	22.65064	mg/L
CCV	Cr 284.325	0.575839	1/28/15	14:40	39171.62	0.322398	126.2887	mg/L
CCV	Cd 228.802	0.529265	1/28/15	14:40	14028.62	0.273028	38.30205	mg/L
CCV	Cd 214.440	0.567336	1/28/15	14:40	25593.07	0.556415	142.4037	mg/L
CCV	Cd 226.502	0.573214	1/28/15	14:40	19515.26	0.612377	119.5069	mg/L
CCV	Cu 324.752	0.538711	1/28/15	14:39	164961.4	0.36184	596.8956	mg/L
CCV	Cu 327.393	0.554417	1/28/15	14:40	64351.71	0.308663	198.6297	mg/L
CCV	Co 238.892	0.073608	1/28/15	14:40	2561.781	3.715942	95.1943	mg/L
CCV	Fe 239.562	0.677545	1/28/15	14:40	23601.87	1.958081	462.1438	mg/L
CCV	Fe 259.939	0.712415	1/28/15	14:40	83611.56	1.883714	1575.003	mg/L
CCV	Fe 234.349	0.691091	1/28/15	14:40	16011.16	1.912018	306.1362	mg/L
CCV	Mn 259.372	0.525395	1/28/15	14:39	236477.7	0.356006	841.8753	mg/L
CCV	Cr 267.716	0.610373	1/28/15	14:40	27008.83	0.42386	114.4795	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	100.783	1/28/15	14:44	3358048	0.557732	18728.9	%
CCB	Al 394.401	0.054736	1/28/15	14:44	1428.147	12.60879	180.0721	mg/L
CCB	B 249.772	0.013864	1/28/15	14:44	1487.474	5.390029	80.17526	mg/L
CCB	Ba 233.527	-0.00338	1/28/15	14:44	8.624742	21.47096	1.851815	mg/L
CCB	Ba 413.065	-0.00291	1/28/15	14:44	75.49749	54.23218	40.94393	mg/L
CCB	Be 234.861	0.001346	1/28/15	14:44	-6.88955	173.1874	11.93183	mg/L
CCB	Be 313.042	-0.00066	1/28/15	14:44	1090.453	18.11772	197.5651	mg/L
CCB	Fe 238.204	0.074693	1/28/15	14:44	3543.786	14.61876	518.0577	mg/L
CCB	Pb 220.353	-0.00917	1/28/15	14:44	-74.433	4.973983	3.702286	mg/L
CCB	Mn 257.610	0.000981	1/28/15	14:44	1039.908	9.664399	100.5008	mg/L
CCB	Ni 231.604	0.002102	1/28/15	14:44	41.8137	22.66481	9.476996	mg/L
CCB	Se 196.026	-0.00402	1/28/15	14:44	4.061022	21.04608	0.854686	mg/L
CCB	Ag 328.068	-0.02057	1/28/15	14:44	-2256.11	0.564358	12.73253	mg/L
CCB	Ag 338.289	0.003758	1/28/15	14:44	-11.6371	133.2283	15.50389	mg/L
CCB	Tl 351.924	-0.00494	1/28/15	14:44	-7.80375	92.36335	7.207806	mg/L
CCB	As 193.696	-0.00092	1/28/15	14:44	0.877187	127.7139	1.12029	mg/L
CCB	As 197.197	-0.0331	1/28/15	14:44	-0.9037	6.079999	0.054945	mg/L
CCB	Ba 230.425	-0.01827	1/28/15	14:44	45.30603	9.777585	4.429836	mg/L
CCB	V 292.402	0.00467	1/28/15	14:44	25.7933	36.72715	9.473144	mg/L
CCB	Zn 213.857	-0.05921	1/28/15	14:44	-3122.97	0.08218	2.566442	mg/L
CCB	Zn 202.548	-0.04158	1/28/15	14:44	-1293.64	0.204091	2.640208	mg/L
CCB	Mo 203.845	-0.07761	1/28/15	14:44	5.414887	29.57907	1.601673	mg/L
CCB	Mo 204.597	-0.07472	1/28/15	14:44	13.18217	16.13807	2.127347	mg/L
CCB	Cr 205.560	-0.00329	1/28/15	14:44	6.330209	7.007581	0.443594	mg/L
CCB	Mn 260.568	0.002945	1/28/15	14:44	561.2551	9.565288	53.68567	mg/L
CCB	Ni 221.648	-0.00063	1/28/15	14:44	-12.7383	13.6489	1.738642	mg/L
CCB	Mg 279.077	-0.10061	1/28/15	14:44	459.275	14.06207	64.58359	mg/L
CCB	Sb 206.836	0.0793	1/28/15	14:44	-0.45708	718.096	3.282292	mg/L
CCB	Sb 217.582	0.012013	1/28/15	14:44	-1.84152	172.4842	3.176337	mg/L
CCB	Sb 231.146	0.011201	1/28/15	14:44	6.263721	20.31059	1.272199	mg/L
CCB	Cr 284.325	-0.0046	1/28/15	14:44	-130.397	13.11385	17.10002	mg/L
CCB	Cd 228.802	-0.00258	1/28/15	14:44	-25.7385	13.63643	3.509812	mg/L
CCB	Cd 214.440	0.000208	1/28/15	14:44	43.33388	10.02536	4.344376	mg/L
CCB	Cd 226.502	-0.00091	1/28/15	14:44	24.0276	10.77485	2.588939	mg/L
CCB	Cu 324.752	-4.48E-05	1/28/15	14:44	401.7211	9.244431	37.13683	mg/L
CCB	Cu 327.393	0.00255	1/28/15	14:44	-172.247	5.291557	9.114538	mg/L
CCB	Co 238.892	0.012001	1/28/15	14:44	642.9276	14.22578	91.46144	mg/L
CCB	Fe 239.562	0.058947	1/28/15	14:44	2604.9	12.4408	324.0704	mg/L
CCB	Fe 259.939	0.063286	1/28/15	14:44	9176.875	12.02662	1103.668	mg/L
CCB	Fe 234.349	0.064921	1/28/15	14:44	1885.55	15.90986	299.9883	mg/L
CCB	Mn 259.372	-0.03064	1/28/15	14:44	1030.793	9.254983	95.39975	mg/L
CCB	Cr 267.716	-0.00085	1/28/15	14:44	27.70313	20.6195	5.712247	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	100.8187	1/28/15	16:54	3359238	0.272655	9159.126	%
CCV	Al 394.401	0.794294	1/28/15	16:54	24829.44	1.929017	478.9641	mg/L
CCV	B 249.772	0.634027	1/28/15	16:54	37026.92	0.570749	211.3309	mg/L
CCV	Ba 233.527	0.520105	1/28/15	16:54	21146.06	0.886224	187.4015	mg/L
CCV	Ba 413.065	0.588697	1/28/15	16:54	61392.62	0.155484	95.45583	mg/L
CCV	Be 234.861	0.564929	1/28/15	16:54	244847.3	0.166075	406.6308	mg/L
CCV	Be 313.042	0.585511	1/28/15	16:54	2430385	0.172653	4196.123	mg/L
CCV	Fe 238.204	0.653085	1/28/15	16:54	25394.09	3.629239	921.6122	mg/L
CCV	Pb 220.353	0.491755	1/28/15	16:55	1339.364	0.534027	7.152559	mg/L
CCV	Mn 257.610	0.549878	1/28/15	16:54	243373.8	0.238448	580.3191	mg/L
CCV	Ni 231.604	0.515431	1/28/15	16:54	9633.396	0.774752	74.63489	mg/L
CCV	Se 196.026	0.526229	1/28/15	16:55	205.0698	0.588364	1.206557	mg/L
CCV	Ag 328.068	0.510916	1/28/15	16:54	95047.8	0.663655	630.7892	mg/L
CCV	Ag 338.289	0.469942	1/28/15	16:54	61102.05	0.745466	455.4953	mg/L
CCV	Tl 351.924	0.564563	1/28/15	16:54	2528.144	1.340326	33.88538	mg/L
CCV	As 193.696	0.51807	1/28/15	16:55	248.6025	0.525231	1.305738	mg/L
CCV	As 197.197	0.523	1/28/15	16:55	129.1708	2.447951	3.162038	mg/L
CCV	Ba 230.425	0.485977	1/28/15	16:54	22965.54	0.732734	168.2763	mg/L
CCV	V 292.402	0.544198	1/28/15	16:54	47758.99	0.496505	237.1256	mg/L
CCV	Zn 213.857	0.534944	1/28/15	16:54	16719.38	0.832584	139.2028	mg/L
CCV	Zn 202.548	0.473536	1/28/15	16:54	6150.713	0.937125	57.63986	mg/L
CCV	Mo 203.845	0.404398	1/28/15	16:55	1328.287	0.168455	2.23757	mg/L
CCV	Mo 204.597	0.398415	1/28/15	16:55	1565.301	0.212368	3.324201	mg/L
CCV	Cr 205.560	0.487353	1/28/15	16:54	5983.054	0.586253	35.07586	mg/L
CCV	Mn 260.568	0.562746	1/28/15	16:54	131865.7	0.762262	1005.162	mg/L
CCV	Ni 221.648	0.505506	1/28/15	16:55	1986.109	0.11576	2.29912	mg/L
CCV	Mg 279.077	0.539633	1/28/15	16:54	6898.359	2.08449	143.7956	mg/L
CCV	Sb 206.836	0.582355	1/28/15	16:55	683.1653	0.287936	1.96708	mg/L
CCV	Sb 217.582	0.52187	1/28/15	16:55	624.7309	0.217795	1.360631	mg/L
CCV	Sb 231.146	1.438428	1/28/15	16:54	3653.292	0.405635	14.81903	mg/L
CCV	Cr 284.325	0.551264	1/28/15	16:54	37507.6	0.778237	291.898	mg/L
CCV	Cd 228.802	0.512121	1/28/15	16:54	13575.57	0.578571	78.54435	mg/L
CCV	Cd 214.440	0.527462	1/28/15	16:54	23796.71	0.685097	163.0305	mg/L
CCV	Cd 226.502	0.538635	1/28/15	16:54	18341.34	0.801439	146.9947	mg/L
CCV	Cu 324.752	0.531941	1/28/15	16:54	162893.5	0.142272	231.7524	mg/L
CCV	Cu 327.393	0.55149	1/28/15	16:54	64009.51	0.706734	452.3768	mg/L
CCV	Co 238.892	0.069609	1/28/15	16:54	2437.241	7.126744	173.6959	mg/L
CCV	Fe 239.562	0.635937	1/28/15	16:54	22189.59	3.816257	846.8117	mg/L
CCV	Fe 259.939	0.676618	1/28/15	16:54	79506.75	3.566271	2835.426	mg/L
CCV	Fe 234.349	0.649429	1/28/15	16:54	15071.3	3.903056	588.2414	mg/L
CCV	Mn 259.372	0.500551	1/28/15	16:54	225957.8	0.261691	591.3118	mg/L
CCV	Cr 267.716	0.582667	1/28/15	16:54	25785.79	0.708011	182.5662	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	110.3338	1/28/15	16:59	3676279	0.312204	11477.48	%
CCB	Al 394.401	0.090422	1/28/15	16:59	2557.314	2.171291	55.52673	mg/L
CCB	B 249.772	0.045548	1/28/15	16:59	3303.177	2.858103	94.4082	mg/L
CCB	Ba 233.527	-0.00318	1/28/15	16:59	16.93326	38.77928	6.566597	mg/L
CCB	Ba 413.065	-0.00394	1/28/15	16:59	-31.2165	67.29195	21.00621	mg/L
CCB	Be 234.861	0.001422	1/28/15	16:59	26.0783	95.82551	24.98966	mg/L
CCB	Be 313.042	-0.00064	1/28/15	16:59	1172.825	24.66091	289.2292	mg/L
CCB	Fe 238.204	0.064439	1/28/15	16:59	3156.416	5.835483	184.1921	mg/L
CCB	Pb 220.353	-0.00827	1/28/15	16:59	-71.891	3.142611	2.259256	mg/L
CCB	Mn 257.610	0.000719	1/28/15	16:59	924.0692	30.99658	286.4299	mg/L
CCB	Ni 231.604	0.002886	1/28/15	16:59	56.47006	4.716047	2.663155	mg/L
CCB	Se 196.026	-0.01284	1/28/15	16:59	0.719852	268.5433	1.933114	mg/L
CCB	Ag 328.068	-0.0275	1/28/15	16:59	-3524.81	1.944815	68.551	mg/L
CCB	Ag 338.289	0.004478	1/28/15	16:59	82.78782	29.68909	24.57895	mg/L
CCB	Tl 351.924	-0.00439	1/28/15	16:59	-5.36704	129.8721	6.970282	mg/L
CCB	As 193.696	-0.00739	1/28/15	16:59	-2.21378	82.85784	1.834293	mg/L
CCB	As 197.197	-0.03292	1/28/15	16:59	-0.86022	59.81727	0.514557	mg/L
CCB	Ba 230.425	-0.0181	1/28/15	16:59	53.06977	14.60497	7.750824	mg/L
CCB	V 292.402	0.004532	1/28/15	16:59	13.60471	19.52913	2.656882	mg/L
CCB	Zn 213.857	-0.05707	1/28/15	16:59	-3051.53	0.142711	4.354875	mg/L
CCB	Zn 202.548	-0.039	1/28/15	16:59	-1256.43	0.284313	3.572211	mg/L
CCB	Mo 203.845	-0.07784	1/28/15	16:59	4.789709	50.58214	2.422737	mg/L
CCB	Mo 204.597	-0.07436	1/28/15	16:59	14.36282	11.78917	1.693257	mg/L
CCB	Cr 205.560	-0.00315	1/28/15	16:59	8.049116	34.50485	2.777335	mg/L
CCB	Mn 260.568	0.002668	1/28/15	16:59	496.2505	31.51364	156.3866	mg/L
CCB	Ni 221.648	-0.00743	1/28/15	16:59	-39.5786	3.883173	1.536906	mg/L
CCB	Mg 279.077	-0.10222	1/28/15	16:59	443.1548	26.74689	118.5301	mg/L
CCB	Sb 206.836	0.079251	1/28/15	16:59	-0.52381	35.14477	0.184092	mg/L
CCB	Sb 217.582	0.014284	1/28/15	16:59	0.948831	104.8202	0.994566	mg/L
CCB	Sb 231.146	0.012181	1/28/15	16:59	8.768672	27.03031	2.370199	mg/L
CCB	Cr 284.325	-0.00432	1/28/15	16:59	-111.647	12.17554	13.59368	mg/L
CCB	Cd 228.802	-0.0026	1/28/15	16:59	-26.1901	15.88246	4.159635	mg/L
CCB	Cd 214.440	0.000318	1/28/15	16:59	48.29193	7.956061	3.842136	mg/L
CCB	Cd 226.502	-0.00078	1/28/15	16:59	28.44804	6.963488	1.980976	mg/L
CCB	Cu 324.752	0.001638	1/28/15	16:59	915.6073	3.570044	32.68758	mg/L
CCB	Cu 327.393	0.003091	1/28/15	16:59	-109.031	8.16189	8.898988	mg/L
CCB	Co 238.892	0.008827	1/28/15	16:59	544.0579	33.43385	181.8995	mg/L
CCB	Fe 239.562	0.063153	1/28/15	16:59	2747.688	4.732259	130.0277	mg/L
CCB	Fe 259.939	0.068174	1/28/15	16:59	9737.371	5.776979	562.5259	mg/L
CCB	Fe 234.349	0.0561	1/28/15	16:59	1686.569	7.157764	120.7207	mg/L
CCB	Mn 259.372	-0.03091	1/28/15	16:59	916.7958	30.332	278.0825	mg/L
CCB	Cr 267.716	-0.00061	1/28/15	16:59	38.25488	2.3459	0.897421	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	89.9154	1/28/15	18:21	2995945	0.423237	12679.94	%
CCV	Al 394.401	0.78438	1/28/15	18:21	24515.75	3.378053	828.1548	mg/L
CCV	B 249.772	0.652456	1/28/15	18:21	38082.97	0.469515	178.8054	mg/L
CCV	Ba 233.527	0.513988	1/28/15	18:21	20899.06	0.791761	165.4705	mg/L
CCV	Ba 413.065	0.574134	1/28/15	18:21	59883.25	0.051776	31.0054	mg/L
CCV	Be 234.861	0.577597	1/28/15	18:21	250351.2	0.070783	177.2052	mg/L
CCV	Be 313.042	0.579416	1/28/15	18:21	2405126	0.055912	1344.762	mg/L
CCV	Fe 238.204	0.667277	1/28/15	18:21	25930.2	8.213498	2129.777	mg/L
CCV	Pb 220.353	0.490866	1/28/15	18:22	1336.857	0.334862	4.476631	mg/L
CCV	Mn 257.610	0.544115	1/28/15	18:21	240829.4	0.114582	275.9475	mg/L
CCV	Ni 231.604	0.510444	1/28/15	18:21	9540.201	0.540452	51.56021	mg/L
CCV	Se 196.026	0.543143	1/28/15	18:22	211.4814	0.344172	0.727861	mg/L
CCV	Ag 328.068	0.49776	1/28/15	18:21	92639.2	0.417083	386.3823	mg/L
CCV	Ag 338.289	0.46019	1/28/15	18:21	59823.57	0.557714	333.6444	mg/L
CCV	Tl 351.924	0.550005	1/28/15	18:21	2463.321	1.17809	29.02014	mg/L
CCV	As 193.696	0.523241	1/28/15	18:22	251.0705	0.925194	2.322889	mg/L
CCV	As 197.197	0.541003	1/28/15	18:22	133.3818	0.232363	0.309929	mg/L
CCV	Ba 230.425	0.477755	1/28/15	18:21	22591.83	0.725262	163.8499	mg/L
CCV	V 292.402	0.528363	1/28/15	18:21	46358.03	0.601495	278.8412	mg/L
CCV	Zn 213.857	0.542844	1/28/15	18:21	16983.19	0.82773	140.5749	mg/L
CCV	Zn 202.548	0.481628	1/28/15	18:21	6267.656	1.205393	75.54986	mg/L
CCV	Mo 203.845	0.398272	1/28/15	18:22	1311.475	0.103199	1.35343	mg/L
CCV	Mo 204.597	0.392888	1/28/15	18:22	1547.169	0.273463	4.230936	mg/L
CCV	Cr 205.560	0.482373	1/28/15	18:21	5922.388	0.672226	39.81181	mg/L
CCV	Mn 260.568	0.556703	1/28/15	18:21	130448.3	0.876988	1144.017	mg/L
CCV	Ni 221.648	0.491503	1/28/15	18:21	1930.809	0.485491	9.373899	mg/L
CCV	Mg 279.077	0.562561	1/28/15	18:21	7128.95	5.102443	363.7506	mg/L
CCV	Sb 206.836	0.588648	1/28/15	18:22	691.7167	0.538118	3.722254	mg/L
CCV	Sb 217.582	0.52707	1/28/15	18:22	631.1205	0.335765	2.119081	mg/L
CCV	Sb 231.146	1.430775	1/28/15	18:21	3633.736	0.766265	27.84406	mg/L
CCV	Cr 284.325	0.54927	1/28/15	18:21	37372.58	0.621011	232.0877	mg/L
CCV	Cd 228.802	0.511691	1/28/15	18:21	13564.19	0.549472	74.53143	mg/L
CCV	Cd 214.440	0.532871	1/28/15	18:21	24040.38	0.919458	221.0411	mg/L
CCV	Cd 226.502	0.536602	1/28/15	18:21	18272.3	0.738324	134.9088	mg/L
CCV	Cu 324.752	0.522391	1/28/15	18:21	159976.5	0.018753	30.0006	mg/L
CCV	Cu 327.393	0.531223	1/28/15	18:21	61639.96	0.351138	216.4412	mg/L
CCV	Co 238.892	0.075745	1/28/15	18:21	2628.351	14.66504	385.4486	mg/L
CCV	Fe 239.562	0.63329	1/28/15	18:21	22099.76	8.185258	1808.922	mg/L
CCV	Fe 259.939	0.687787	1/28/15	18:21	80787.42	8.094064	6538.986	mg/L
CCV	Fe 234.349	0.66084	1/28/15	18:21	15328.73	8.45914	1296.679	mg/L
CCV	Mn 259.372	0.49284	1/28/15	18:21	222692.5	0.144579	321.9667	mg/L
CCV	Cr 267.716	0.575116	1/28/15	18:21	25452.47	0.701791	178.6232	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	83.62091	1/28/15	18:26	2786215	0.48819	13602.02	%
CCB	Al 394.401	0.063104	1/28/15	18:26	1692.927	42.15376	713.6323	mg/L
CCB	B 249.772	0.016895	1/28/15	18:26	1661.169	6.989452	116.1066	mg/L
CCB	Ba 233.527	-0.00354	1/28/15	18:26	2.340065	94.90756	2.220899	mg/L
CCB	Ba 413.065	-0.00424	1/28/15	18:26	-61.5465	77.42294	47.65108	mg/L
CCB	Be 234.861	0.001315	1/28/15	18:26	-20.4447	77.56831	15.85858	mg/L
CCB	Be 313.042	0.000722	1/28/15	18:26	6819.596	3.143985	214.4071	mg/L
CCB	Fe 238.204	0.080535	1/28/15	18:26	3764.501	12.74352	479.73	mg/L
CCB	Pb 220.353	-0.00765	1/28/15	18:26	-70.1447	1.605472	1.126153	mg/L
CCB	Mn 257.610	0.000648	1/28/15	18:26	892.7073	11.80608	105.3937	mg/L
CCB	Ni 231.604	0.002639	1/28/15	18:26	51.84551	9.623031	4.989109	mg/L
CCB	Se 196.026	-0.01789	1/28/15	18:26	-1.1967	70.18429	0.839893	mg/L
CCB	Ag 328.068	-0.02008	1/28/15	18:26	-2166.14	6.253512	135.4601	mg/L
CCB	Ag 338.289	0.003285	1/28/15	18:26	-73.6263	27.1978	20.02474	mg/L
CCB	Tl 351.924	-0.00403	1/28/15	18:26	-3.77098	1014.438	38.25423	mg/L
CCB	As 193.696	-0.0009	1/28/15	18:26	0.885445	77.12529	0.682902	mg/L
CCB	As 197.197	-0.03381	1/28/15	18:26	-1.06819	192.5016	2.056289	mg/L
CCB	Ba 230.425	-0.01826	1/28/15	18:26	45.45399	8.840219	4.018232	mg/L
CCB	V 292.402	0.004572	1/28/15	18:26	17.14666	71.84747	12.31944	mg/L
CCB	Zn 213.857	-0.05966	1/28/15	18:26	-3137.9	0.044655	1.401225	mg/L
CCB	Zn 202.548	-0.04168	1/28/15	18:26	-1295.12	0.041298	0.534853	mg/L
CCB	Mo 203.845	-0.07801	1/28/15	18:26	4.330578	66.47527	2.878764	mg/L
CCB	Mo 204.597	-0.0744	1/28/15	18:26	14.22553	6.60734	0.939929	mg/L
CCB	Cr 205.560	-0.00326	1/28/15	18:26	6.699929	17.86264	1.196784	mg/L
CCB	Mn 260.568	0.002575	1/28/15	18:26	474.5386	12.01872	57.03345	mg/L
CCB	Ni 221.648	0.001718	1/28/15	18:26	-3.4547	50.70838	1.751825	mg/L
CCB	Mg 279.077	-0.08838	1/28/15	18:26	582.3608	13.03025	75.88306	mg/L
CCB	Sb 206.836	0.079402	1/28/15	18:26	-0.31855	1029.719	3.28018	mg/L
CCB	Sb 217.582	0.01309	1/28/15	18:26	-0.51798	314.4464	1.628757	mg/L
CCB	Sb 231.146	0.01224	1/28/15	18:26	8.918881	18.26263	1.628822	mg/L
CCB	Cr 284.325	0.000448	1/28/15	18:26	211.3254	5.284625	11.16776	mg/L
CCB	Cd 228.802	-0.00262	1/28/15	18:26	-26.7967	16.36037	4.384037	mg/L
CCB	Cd 214.440	0.000167	1/28/15	18:26	41.5021	21.30618	8.842511	mg/L
CCB	Cd 226.502	-0.00095	1/28/15	18:26	22.71084	35.54628	8.072858	mg/L
CCB	Cu 324.752	-0.00039	1/28/15	18:26	294.8224	11.68668	34.45495	mg/L
CCB	Cu 327.393	0.000624	1/28/15	18:26	-397.437	7.952598	31.60653	mg/L
CCB	Co 238.892	0.012772	1/28/15	18:26	666.9217	13.5562	90.40925	mg/L
CCB	Fe 239.562	0.093909	1/28/15	18:26	3791.639	40.19025	1523.869	mg/L
CCB	Fe 259.939	0.103753	1/28/15	18:26	13817.2	40.85143	5644.525	mg/L
CCB	Fe 234.349	0.067203	1/28/15	18:26	1937.039	14.0415	271.9893	mg/L
CCB	Mn 259.372	-0.03097	1/28/15	18:26	890.6168	11.46763	102.1326	mg/L
CCB	Cr 267.716	-0.00056	1/28/15	18:26	40.51053	2.19703	0.890028	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	91.31516	1/28/15	19:43	3042585	0.578481	17600.79	%
CCV	Al 394.401	0.776701	1/28/15	19:43	24272.75	1.78356	432.9191	mg/L
CCV	B 249.772	0.654973	1/28/15	19:43	38227.24	0.602661	230.3807	mg/L
CCV	Ba 233.527	0.523094	1/28/15	19:43	21266.76	0.309554	65.83211	mg/L
CCV	Ba 413.065	0.579377	1/28/15	19:43	60426.7	0.507232	306.5032	mg/L
CCV	Be 234.861	0.585468	1/28/15	19:43	253770.6	0.345619	877.0786	mg/L
CCV	Be 313.042	0.586595	1/28/15	19:43	2434879	0.408254	9940.5	mg/L
CCV	Fe 238.204	0.609187	1/28/15	19:43	23735.71	3.751698	890.492	mg/L
CCV	Pb 220.353	0.497849	1/28/15	19:43	1356.566	0.140021	1.899478	mg/L
CCV	Mn 257.610	0.550988	1/28/15	19:43	243863.7	0.628899	1533.656	mg/L
CCV	Ni 231.604	0.519732	1/28/15	19:43	9713.764	0.591134	57.42136	mg/L
CCV	Se 196.026	0.554035	1/28/15	19:43	215.6105	0.474656	1.023408	mg/L
CCV	Ag 328.068	0.502635	1/28/15	19:43	93531.71	0.309076	289.0843	mg/L
CCV	Ag 338.289	0.465858	1/28/15	19:43	60566.71	0.252853	153.145	mg/L
CCV	Tl 351.924	0.558423	1/28/15	19:43	2500.804	1.057021	26.43403	mg/L
CCV	As 193.696	0.534804	1/28/15	19:43	256.59	0.299162	0.767621	mg/L
CCV	As 197.197	0.553055	1/28/15	19:43	136.2007	0.784874	1.069004	mg/L
CCV	Ba 230.425	0.487371	1/28/15	19:43	23028.89	0.334147	76.95047	mg/L
CCV	V 292.402	0.535171	1/28/15	19:43	46960.38	0.448341	210.5425	mg/L
CCV	Zn 213.857	0.553303	1/28/15	19:43	17332.51	0.511315	88.6237	mg/L
CCV	Zn 202.548	0.495884	1/28/15	19:43	6473.694	0.795569	51.50267	mg/L
CCV	Mo 203.845	0.403903	1/28/15	19:43	1326.928	0.144102	1.912129	mg/L
CCV	Mo 204.597	0.398511	1/28/15	19:43	1565.616	0.056326	0.881848	mg/L
CCV	Cr 205.560	0.489001	1/28/15	19:43	6003.135	0.447997	26.89387	mg/L
CCV	Mn 260.568	0.566341	1/28/15	19:43	132709.1	0.175099	232.373	mg/L
CCV	Ni 221.648	0.500946	1/28/15	19:43	1968.102	0.887553	17.46795	mg/L
CCV	Mg 279.077	0.546502	1/28/15	19:43	6967.445	2.9356	204.5363	mg/L
CCV	Sb 206.836	0.599657	1/28/15	19:43	706.677	0.280637	1.983194	mg/L
CCV	Sb 217.582	0.534061	1/28/15	19:43	639.7129	0.480112	3.07134	mg/L
CCV	Sb 231.146	1.453434	1/28/15	19:43	3691.638	0.515943	19.04675	mg/L
CCV	Cr 284.325	0.564814	1/28/15	19:43	38425.08	0.306877	117.9176	mg/L
CCV	Cd 228.802	0.522007	1/28/15	19:43	13836.8	0.310898	43.01833	mg/L
CCV	Cd 214.440	0.544718	1/28/15	19:43	24574.11	0.384354	94.45152	mg/L
CCV	Cd 226.502	0.54757	1/28/15	19:43	18644.67	0.439228	81.89257	mg/L
CCV	Cu 324.752	0.526289	1/28/15	19:43	161167.1	0.267414	430.9835	mg/L
CCV	Cu 327.393	0.538384	1/28/15	19:43	62477.21	0.264475	165.2367	mg/L
CCV	Co 238.892	0.060052	1/28/15	19:43	2139.562	7.950463	170.1051	mg/L
CCV	Fe 239.562	0.581072	1/28/15	19:43	20327.31	3.582142	728.1531	mg/L
CCV	Fe 259.939	0.626181	1/28/15	19:43	73723.19	3.834092	2826.615	mg/L
CCV	Fe 234.349	0.604086	1/28/15	19:43	14048.44	3.784846	531.7117	mg/L
CCV	Mn 259.372	0.49849	1/28/15	19:43	225085.1	0.602134	1355.315	mg/L
CCV	Cr 267.716	0.58302	1/28/15	19:43	25801.4	0.302777	78.12058	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	87.44291	1/28/15	19:47	2913563	0.512471	14931.17	%
CCB	Al 394.401	0.052963	1/28/15	19:47	1372.055	11.53811	158.3091	mg/L
CCB	B 249.772	0.018382	1/28/15	19:47	1746.421	3.776768	65.95826	mg/L
CCB	Ba 233.527	-0.0034	1/28/15	19:48	7.847166	6.193112	0.485984	mg/L
CCB	Ba 413.065	-0.00406	1/28/15	19:47	-43.3055	26.70917	11.56654	mg/L
CCB	Be 234.861	-0.00076	1/28/15	19:47	-922.068	2.366522	21.82094	mg/L
CCB	Be 313.042	0.001153	1/28/15	19:47	8604.374	2.410256	207.3874	mg/L
CCB	Fe 238.204	0.746755	1/28/15	19:47	28932.7	1.194304	345.5445	mg/L
CCB	Pb 220.353	-0.00748	1/28/15	19:48	-69.6636	3.732798	2.6004	mg/L
CCB	Mn 257.610	0.004848	1/28/15	19:47	2746.999	4.383591	120.4172	mg/L
CCB	Ni 231.604	0.083721	1/28/15	19:48	1566.873	0.342066	5.359734	mg/L
CCB	Se 196.026	-0.01115	1/28/15	19:48	1.359048	258.1374	3.508211	mg/L
CCB	Ag 328.068	-0.02057	1/28/15	19:47	-2255.64	2.313074	52.17472	mg/L
CCB	Ag 338.289	0.005371	1/28/15	19:47	199.8439	15.05647	30.08944	mg/L
CCB	Tl 351.924	-0.00067	1/28/15	19:47	11.21884	96.27683	10.80114	mg/L
CCB	As 193.696	-0.0015	1/28/15	19:48	0.597962	65.6881	0.39279	mg/L
CCB	As 197.197	-0.03505	1/28/15	19:48	-1.35998	139.2972	1.894413	mg/L
CCB	Ba 230.425	-0.0182	1/28/15	19:48	48.22111	8.432603	4.066295	mg/L
CCB	V 292.402	0.005309	1/28/15	19:47	82.28392	19.1637	15.76865	mg/L
CCB	Zn 213.857	0.183867	1/28/15	19:47	4994.843	0.260376	13.00537	mg/L
CCB	Zn 202.548	0.170951	1/28/15	19:48	1777.809	0.630699	11.21263	mg/L
CCB	Mo 203.845	-0.07842	1/28/15	19:48	3.199159	103.842	3.32207	mg/L
CCB	Mo 204.597	-0.07432	1/28/15	19:48	14.50631	9.241881	1.340656	mg/L
CCB	Cr 205.560	0.160958	1/28/15	19:48	2007.139	0.459974	9.232322	mg/L
CCB	Mn 260.568	0.006988	1/28/15	19:48	1509.551	3.502318	52.86928	mg/L
CCB	Ni 221.648	0.085488	1/28/15	19:48	327.3705	0.068973	0.225797	mg/L
CCB	Mg 279.077	-0.02263	1/28/15	19:47	1243.615	6.585908	81.90334	mg/L
CCB	Sb 206.836	0.082834	1/28/15	19:48	4.345494	164.027	7.127784	mg/L
CCB	Sb 217.582	0.012602	1/28/15	19:48	-1.1177	196.2865	2.193895	mg/L
CCB	Sb 231.146	0.016221	1/28/15	19:48	19.09286	21.87639	4.176829	mg/L
CCB	Cr 284.325	0.191805	1/28/15	19:47	13168.33	0.250411	32.97488	mg/L
CCB	Cd 228.802	-0.00242	1/28/15	19:48	-21.5561	24.69676	5.323666	mg/L
CCB	Cd 214.440	0.000282	1/28/15	19:48	46.6809	13.44968	6.278434	mg/L
CCB	Cd 226.502	-0.00079	1/28/15	19:48	28.15207	28.62316	8.058012	mg/L
CCB	Cu 324.752	0.001122	1/28/15	19:47	758.1816	1.452068	11.00932	mg/L
CCB	Cu 327.393	0.000746	1/28/15	19:47	-383.116	1.758157	6.735783	mg/L
CCB	Co 238.892	0.164033	1/28/15	19:47	5378.236	1.334919	71.79509	mg/L
CCB	Fe 239.562	0.703004	1/28/15	19:47	24466.05	1.397635	341.9462	mg/L
CCB	Fe 259.939	0.759568	1/28/15	19:47	89018.49	1.264367	1125.52	mg/L
CCB	Fe 234.349	0.728933	1/28/15	19:47	16864.83	1.525425	257.2603	mg/L
CCB	Mn 259.372	-0.02619	1/28/15	19:47	2915.351	3.845407	112.1071	mg/L
CCB	Cr 267.716	0.192235	1/28/15	19:47	8550.954	0.3643	31.15114	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	92.39219	1/28/15	20:46	3078471	0.262566	8083.02	%
CCV	Al 394.401	0.780943	1/28/15	20:47	24407	1.313726	320.6411	mg/L
CCV	B 249.772	0.659828	1/28/15	20:47	38505.45	0.598319	230.3854	mg/L
CCV	Ba 233.527	0.529443	1/28/15	20:47	21523.1	0.456541	98.26171	mg/L
CCV	Ba 413.065	0.586124	1/28/15	20:47	61125.99	0.452415	276.5429	mg/L
CCV	Be 234.861	0.583409	1/28/15	20:47	252876.4	0.478967	1211.195	mg/L
CCV	Be 313.042	0.587089	1/28/15	20:47	2436926	0.448066	10919.04	mg/L
CCV	Fe 238.204	0.590873	1/28/15	20:47	23043.83	2.989731	688.9486	mg/L
CCV	Pb 220.353	0.501648	1/28/15	20:47	1367.288	0.313736	4.289674	mg/L
CCV	Mn 257.610	0.554953	1/28/15	20:47	245614.3	0.560534	1376.751	mg/L
CCV	Ni 231.604	0.523917	1/28/15	20:47	9791.952	0.514648	50.39406	mg/L
CCV	Se 196.026	0.547627	1/28/15	20:47	213.1813	1.308781	2.790076	mg/L
CCV	Ag 328.068	0.509119	1/28/15	20:47	94718.77	0.293424	277.9276	mg/L
CCV	Ag 338.289	0.473048	1/28/15	20:47	61509.25	0.386627	237.8111	mg/L
CCV	Tl 351.924	0.565408	1/28/15	20:47	2531.91	0.776037	19.64857	mg/L
CCV	As 193.696	0.530427	1/28/15	20:47	254.5007	0.764595	1.945898	mg/L
CCV	As 197.197	0.544665	1/28/15	20:47	134.2382	0.229444	0.308001	mg/L
CCV	Ba 230.425	0.493597	1/28/15	20:47	23311.92	0.231436	53.95217	mg/L
CCV	V 292.402	0.542903	1/28/15	20:47	47644.47	0.325431	155.0501	mg/L
CCV	Zn 213.857	0.556002	1/28/15	20:47	17422.63	0.537433	93.635	mg/L
CCV	Zn 202.548	0.493871	1/28/15	20:47	6444.591	0.516435	33.28214	mg/L
CCV	Mo 203.845	0.408204	1/28/15	20:47	1338.734	0.137839	1.845299	mg/L
CCV	Mo 204.597	0.402458	1/28/15	20:47	1578.566	0.062269	0.982961	mg/L
CCV	Cr 205.560	0.494664	1/28/15	20:47	6072.108	0.487561	29.60522	mg/L
CCV	Mn 260.568	0.57219	1/28/15	20:47	134080.9	0.121286	162.621	mg/L
CCV	Ni 221.648	0.512565	1/28/15	20:47	2013.987	0.381511	7.683586	mg/L
CCV	Mg 279.077	0.560948	1/28/15	20:47	7112.73	3.456959	245.8842	mg/L
CCV	Sb 206.836	0.600587	1/28/15	20:47	707.9419	0.103723	0.734297	mg/L
CCV	Sb 217.582	0.539965	1/28/15	20:47	646.968	0.818346	5.294438	mg/L
CCV	Sb 231.146	1.474594	1/28/15	20:47	3745.708	0.191882	7.187356	mg/L
CCV	Cr 284.325	0.567147	1/28/15	20:47	38583.1	0.347444	134.0546	mg/L
CCV	Cd 228.802	0.523244	1/28/15	20:47	13869.5	0.276347	38.32793	mg/L
CCV	Cd 214.440	0.544589	1/28/15	20:47	24568.3	0.323941	79.58684	mg/L
CCV	Cd 226.502	0.549443	1/28/15	20:47	18708.24	0.55481	103.7952	mg/L
CCV	Cu 324.752	0.532879	1/28/15	20:47	163180.2	0.63968	1043.83	mg/L
CCV	Cu 327.393	0.548325	1/28/15	20:47	63639.47	0.299475	190.5844	mg/L
CCV	Co 238.892	0.05601	1/28/15	20:47	2013.659	6.027946	121.3823	mg/L
CCV	Fe 239.562	0.561559	1/28/15	20:47	19665.01	2.905383	571.3437	mg/L
CCV	Fe 259.939	0.609519	1/28/15	20:47	71812.55	2.966209	2130.11	mg/L
CCV	Fe 234.349	0.586916	1/28/15	20:47	13661.1	2.912432	397.8701	mg/L
CCV	Mn 259.372	0.503538	1/28/15	20:47	227222.3	0.558674	1269.432	mg/L
CCV	Cr 267.716	0.591079	1/28/15	20:47	26157.14	0.34659	90.65811	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	85.20621	1/28/15	20:51	2839037	0.491458	13952.68	%
CCB	Al 394.401	0.037901	1/28/15	20:51	895.4409	9.469898	84.79734	mg/L
CCB	B 249.772	0.016987	1/28/15	20:51	1666.479	5.641218	94.00972	mg/L
CCB	Ba 233.527	-0.00361	1/28/15	20:51	-0.70719	130.632	0.92382	mg/L
CCB	Ba 413.065	-0.00427	1/28/15	20:51	-65.2658	35.9384	23.45548	mg/L
CCB	Be 234.861	0.001493	1/28/15	20:51	56.64015	3.600953	2.039585	mg/L
CCB	Be 313.042	0.00099	1/28/15	20:51	7929.822	2.867051	227.352	mg/L
CCB	Fe 238.204	0.023182	1/28/15	20:51	1597.806	4.056656	64.81751	mg/L
CCB	Pb 220.353	-0.00638	1/28/15	20:51	-66.5636	2.663068	1.772634	mg/L
CCB	Mn 257.610	0.001119	1/28/15	20:51	1100.768	3.709222	40.82993	mg/L
CCB	Ni 231.604	0.002862	1/28/15	20:51	56.02399	4.492932	2.517119	mg/L
CCB	Se 196.026	-0.01049	1/28/15	20:51	1.608724	162.2362	2.609933	mg/L
CCB	Ag 328.068	-0.01966	1/28/15	20:51	-2090.32	4.702217	98.29117	mg/L
CCB	Ag 338.289	0.003811	1/28/15	20:51	-4.73817	822.571	38.97482	mg/L
CCB	Tl 351.924	-0.00913	1/28/15	20:51	-26.4683	54.00961	14.29544	mg/L
CCB	As 193.696	-0.0023	1/28/15	20:51	0.21634	915.7371	1.98111	mg/L
CCB	As 197.197	-0.03403	1/28/15	20:51	-1.12035	56.33379	0.631138	mg/L
CCB	Ba 230.425	-0.0184	1/28/15	20:51	39.24089	11.55871	4.53574	mg/L
CCB	V 292.402	0.004618	1/28/15	20:51	21.2199	11.4821	2.436491	mg/L
CCB	Zn 213.857	-0.05692	1/28/15	20:51	-3046.51	0.138503	4.219491	mg/L
CCB	Zn 202.548	-0.03909	1/28/15	20:51	-1257.7	0.201529	2.534634	mg/L
CCB	Mo 203.845	-0.07841	1/28/15	20:51	3.236048	94.30121	3.051632	mg/L
CCB	Mo 204.597	-0.07488	1/28/15	20:51	12.66071	9.025879	1.142741	mg/L
CCB	Cr 205.560	-0.00339	1/28/15	20:51	5.11573	35.38197	1.810046	mg/L
CCB	Mn 260.568	0.003034	1/28/15	20:51	582.0608	3.544048	20.62851	mg/L
CCB	Ni 221.648	0.001927	1/28/15	20:51	-2.63247	45.55366	1.199185	mg/L
CCB	Mg 279.077	-0.09106	1/28/15	20:51	555.3203	6.023568	33.4501	mg/L
CCB	Sb 206.836	0.079412	1/28/15	20:51	-0.30464	825.2904	2.51417	mg/L
CCB	Sb 217.582	0.014591	1/28/15	20:51	1.326283	265.4765	3.52097	mg/L
CCB	Sb 231.146	0.013195	1/28/15	20:51	11.35997	49.94315	5.673525	mg/L
CCB	Cr 284.325	0.002883	1/28/15	20:51	376.2346	12.3231	46.36377	mg/L
CCB	Cd 228.802	-0.00246	1/28/15	20:51	-22.4743	8.868204	1.993066	mg/L
CCB	Cd 214.440	0.000189	1/28/15	20:51	42.49283	15.06846	6.403014	mg/L
CCB	Cd 226.502	-0.00096	1/28/15	20:51	22.16245	14.3343	3.176832	mg/L
CCB	Cu 324.752	0.000131	1/28/15	20:51	455.2935	8.0435	36.62153	mg/L
CCB	Cu 327.393	0.000328	1/28/15	20:51	-432.074	11.13333	48.10423	mg/L
CCB	Co 238.892	0.000233	1/28/15	20:51	276.3788	4.14691	11.46118	mg/L
CCB	Fe 239.562	0.022659	1/28/15	20:51	1373.185	3.980992	54.66637	mg/L
CCB	Fe 259.939	0.02488	1/28/15	20:51	4772.918	11.57902	552.657	mg/L
CCB	Fe 234.349	0.011878	1/28/15	20:51	688.9684	5.161367	35.56018	mg/L
CCB	Mn 259.372	-0.03059	1/28/15	20:51	1054.351	2.972114	31.33653	mg/L
CCB	Cr 267.716	-0.00054	1/28/15	20:51	41.21988	20.1849	8.32019	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	86.02054	1/28/15	23:18	2866170	0.475677	13633.7	%
CCV	Al 394.401	0.728091	1/28/15	23:18	22734.64	0.024345	5.534855	mg/L
CCV	B 249.772	0.686491	1/28/15	23:18	40033.42	0.473219	189.4459	mg/L
CCV	Ba 233.527	0.512039	1/28/15	23:18	20820.35	0.54701	113.8893	mg/L
CCV	Ba 413.065	0.569636	1/28/15	23:18	59417.09	0.514049	305.4327	mg/L
CCV	Be 234.861	0.578536	1/28/15	23:18	250759.3	0.337834	847.1514	mg/L
CCV	Be 313.042	0.577946	1/28/15	23:18	2399033	0.375656	9012.108	mg/L
CCV	Fe 238.204	0.576149	1/28/15	23:18	22487.61	2.609669	586.8522	mg/L
CCV	Pb 220.353	0.487878	1/28/15	23:18	1328.423	0.256219	3.403675	mg/L
CCV	Mn 257.610	0.539996	1/28/15	23:18	239011.1	0.425094	1016.023	mg/L
CCV	Ni 231.604	0.511072	1/28/15	23:18	9551.943	0.544951	52.05338	mg/L
CCV	Se 196.026	0.54646	1/28/15	23:18	212.7389	1.417521	3.015618	mg/L
CCV	Ag 328.068	0.496924	1/28/15	23:18	92486.13	0.322541	298.3052	mg/L
CCV	Ag 338.289	0.463567	1/28/15	23:18	60266.36	0.310795	187.3046	mg/L
CCV	Tl 351.924	0.543796	1/28/15	23:18	2435.674	0.291268	7.09433	mg/L
CCV	As 193.696	0.515096	1/28/15	23:18	247.183	0.790892	1.954952	mg/L
CCV	As 197.197	0.5485	1/28/15	23:18	135.1354	0.6377	0.861758	mg/L
CCV	Ba 230.425	0.47507	1/28/15	23:18	22469.76	0.688905	154.7952	mg/L
CCV	V 292.402	0.527792	1/28/15	23:18	46307.57	0.677147	313.5703	mg/L
CCV	Zn 213.857	0.544207	1/28/15	23:18	17028.73	0.52699	89.73969	mg/L
CCV	Zn 202.548	0.477922	1/28/15	23:18	6214.101	1.185893	73.69258	mg/L
CCV	Mo 203.845	0.396939	1/28/15	23:18	1307.817	0.235402	3.078624	mg/L
CCV	Mo 204.597	0.388214	1/28/15	23:18	1531.837	0.096797	1.482774	mg/L
CCV	Cr 205.560	0.479547	1/28/15	23:18	5887.968	0.599388	35.29179	mg/L
CCV	Mn 260.568	0.555057	1/28/15	23:18	130062.3	0.614561	799.312	mg/L
CCV	Ni 221.648	0.499146	1/28/15	23:18	1960.993	0.267921	5.253906	mg/L
CCV	Mg 279.077	0.497605	1/28/15	23:18	6475.672	1.349603	87.39588	mg/L
CCV	Sb 206.836	0.59806	1/28/15	23:18	704.5071	0.643289	4.532018	mg/L
CCV	Sb 217.582	0.533203	1/28/15	23:18	638.6586	0.497404	3.176715	mg/L
CCV	Sb 231.146	1.437346	1/28/15	23:18	3650.526	0.94531	34.50879	mg/L
CCV	Cr 284.325	0.555931	1/28/15	23:18	37823.66	0.448056	169.471	mg/L
CCV	Cd 228.802	0.507821	1/28/15	23:18	13461.95	0.538966	72.5553	mg/L
CCV	Cd 214.440	0.532538	1/28/15	23:18	24025.38	0.810483	194.7216	mg/L
CCV	Cd 226.502	0.538151	1/28/15	23:18	18324.88	0.619696	113.5586	mg/L
CCV	Cu 324.752	0.525931	1/28/15	23:18	161058	0.343911	553.8961	mg/L
CCV	Cu 327.393	0.53629	1/28/15	23:18	62232.3	0.426297	265.2944	mg/L
CCV	Co 238.892	0.057043	1/28/15	23:18	2045.851	4.574444	93.58633	mg/L
CCV	Fe 239.562	0.535877	1/28/15	23:18	18793.29	2.934398	551.4698	mg/L
CCV	Fe 259.939	0.598521	1/28/15	23:18	70551.45	2.592449	1829.01	mg/L
CCV	Fe 234.349	0.57021	1/28/15	23:18	13284.22	2.840361	377.3199	mg/L
CCV	Mn 259.372	0.489654	1/28/15	23:18	221343.3	0.491335	1087.536	mg/L
CCV	Cr 267.716	0.577439	1/28/15	23:18	25555.02	0.61913	158.2187	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	97.14673	1/28/15	23:22	3236890	0.429933	13916.45	%
CCB	Al 394.401	0.054266	1/28/15	23:22	1413.267	2.344553	33.1348	mg/L
CCB	B 249.772	0.062793	1/28/15	23:22	4291.465	2.069469	88.81055	mg/L
CCB	Ba 233.527	-0.00366	1/28/15	23:23	-2.39152	62.30097	1.489943	mg/L
CCB	Ba 413.065	-0.00475	1/28/15	23:22	-115.314	40.57876	46.7931	mg/L
CCB	Be 234.861	0.001575	1/28/15	23:23	92.56122	8.565515	7.928346	mg/L
CCB	Be 313.042	8.15E-05	1/28/15	23:22	4164.902	3.630787	151.2187	mg/L
CCB	Fe 238.204	0.000569	1/28/15	23:23	743.5423	3.233838	24.04495	mg/L
CCB	Pb 220.353	-0.00576	1/28/15	23:23	-64.8178	2.962262	1.920074	mg/L
CCB	Mn 257.610	-0.00063	1/28/15	23:23	330.1473	1.591816	5.255339	mg/L
CCB	Ni 231.604	0.003261	1/28/15	23:23	63.46417	3.936228	2.498094	mg/L
CCB	Se 196.026	-0.01868	1/28/15	23:23	-1.49645	64.96865	0.972221	mg/L
CCB	Ag 328.068	-0.03282	1/28/15	23:22	-4498.61	1.162439	52.29361	mg/L
CCB	Ag 338.289	0.006211	1/28/15	23:22	309.9192	7.485408	23.19872	mg/L
CCB	Tl 351.924	-0.0006	1/28/15	23:22	11.53242	109.5769	12.63687	mg/L
CCB	As 193.696	0.001823	1/28/15	23:23	2.184696	36.34837	0.794101	mg/L
CCB	As 197.197	-0.03592	1/28/15	23:23	-1.56176	45.338	0.708069	mg/L
CCB	Ba 230.425	-0.0184	1/28/15	23:23	39.25454	3.037989	1.192549	mg/L
CCB	V 292.402	0.004641	1/28/15	23:22	23.25194	42.81616	9.95559	mg/L
CCB	Zn 213.857	-0.04242	1/28/15	23:23	-2562.37	0.255724	6.552615	mg/L
CCB	Zn 202.548	-0.02544	1/28/15	23:23	-1060.43	0.200877	2.130155	mg/L
CCB	Mo 203.845	-0.07629	1/28/15	23:23	9.038699	43.07531	3.893447	mg/L
CCB	Mo 204.597	-0.07287	1/28/15	23:23	19.25505	6.770784	1.303718	mg/L
CCB	Cr 205.560	-0.00332	1/28/15	23:23	5.965835	90.98864	5.428232	mg/L
CCB	Mn 260.568	0.001281	1/28/15	23:23	170.9044	4.982992	8.516154	mg/L
CCB	Ni 221.648	-0.00354	1/28/15	23:23	-24.2119	5.786366	1.400987	mg/L
CCB	Mg 279.077	-0.13164	1/28/15	23:23	147.2766	2.504434	3.688445	mg/L
CCB	Sb 206.836	0.079145	1/28/15	23:23	-0.66825	428.2601	2.861859	mg/L
CCB	Sb 217.582	0.011548	1/28/15	23:23	-2.41292	115.0537	2.776155	mg/L
CCB	Sb 231.146	0.013322	1/28/15	23:23	11.68323	16.62399	1.942218	mg/L
CCB	Cr 284.325	0.004591	1/28/15	23:22	491.8508	6.05053	29.75958	mg/L
CCB	Cd 228.802	-0.00263	1/28/15	23:23	-27.114	3.566858	0.967119	mg/L
CCB	Cd 214.440	0.000358	1/28/15	23:23	50.10859	13.50989	6.769615	mg/L
CCB	Cd 226.502	-0.00077	1/28/15	23:23	28.5588	2.420587	0.69129	mg/L
CCB	Cu 324.752	0.002372	1/28/15	23:22	1139.838	2.331609	26.57657	mg/L
CCB	Cu 327.393	0.000989	1/28/15	23:22	-354.78	2.419742	8.584757	mg/L
CCB	Co 238.892	-0.00478	1/28/15	23:23	120.3066	4.326393	5.204935	mg/L
CCB	Fe 239.562	0.001036	1/28/15	23:23	639.2422	3.372715	21.55982	mg/L
CCB	Fe 259.939	0.002956	1/28/15	23:22	2258.984	2.145623	48.46928	mg/L
CCB	Fe 234.349	-0.01001	1/28/15	23:23	195.2051	8.983085	17.53544	mg/L
CCB	Mn 259.372	-0.03227	1/28/15	23:23	339.6356	1.939509	6.587263	mg/L
CCB	Cr 267.716	-0.00028	1/28/15	23:23	52.68952	4.202498	2.214276	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	79.16161	1/29/15	0:13	2637633	0.470213	12402.5	%
CCV	Al 394.401	0.714065	1/29/15	0:13	22290.81	0.336952	75.10941	mg/L
CCV	B 249.772	0.64016	1/29/15	0:13	37378.35	0.253546	94.77144	mg/L
CCV	Ba 233.527	0.476015	1/29/15	0:13	19365.78	0.665887	128.9541	mg/L
CCV	Ba 413.065	0.529183	1/29/15	0:13	55224.39	0.442246	244.2278	mg/L
CCV	Be 234.861	0.553887	1/29/15	0:13	240050.2	0.307787	738.8425	mg/L
CCV	Be 313.042	0.539794	1/29/15	0:13	2240918	0.28427	6370.264	mg/L
CCV	Fe 238.204	0.54956	1/29/15	0:13	21483.14	2.262354	486.0248	mg/L
CCV	Pb 220.353	0.460056	1/29/15	0:14	1249.898	0.415558	5.194055	mg/L
CCV	Mn 257.610	0.504726	1/29/15	0:13	223439.4	0.411901	920.3489	mg/L
CCV	Ni 231.604	0.475147	1/29/15	0:13	8880.691	0.324327	28.80244	mg/L
CCV	Se 196.026	0.535752	1/29/15	0:14	208.6796	1.371299	2.861622	mg/L
CCV	Ag 328.068	0.269952	1/29/15	0:13	50932.26	26.13779	13312.57	mg/L
CCV	Ag 338.289	0.259974	1/29/15	0:13	33576.66	25.01411	8398.902	mg/L
CCV	Tl 351.924	0.523009	1/29/15	0:13	2343.108	0.772764	18.1067	mg/L
CCV	As 193.696	0.485487	1/29/15	0:14	233.0499	0.650995	1.517143	mg/L
CCV	As 197.197	0.52483	1/29/15	0:14	129.5987	1.014706	1.315045	mg/L
CCV	Ba 230.425	0.440722	1/29/15	0:13	20908.5	0.499284	104.3927	mg/L
CCV	V 292.402	0.497894	1/29/15	0:13	43662.39	0.66256	289.2894	mg/L
CCV	Zn 213.857	0.518322	1/29/15	0:13	16164.26	0.45392	73.37288	mg/L
CCV	Zn 202.548	0.442259	1/29/15	0:13	5698.711	1.24125	70.73524	mg/L
CCV	Mo 203.845	0.364985	1/29/15	0:14	1220.119	0.38391	4.684162	mg/L
CCV	Mo 204.597	0.355953	1/29/15	0:14	1426.004	0.122817	1.751372	mg/L
CCV	Cr 205.560	0.451218	1/29/15	0:13	5542.878	0.631333	34.99403	mg/L
CCV	Mn 260.568	0.518903	1/29/15	0:13	121582.2	0.487009	592.1159	mg/L
CCV	Ni 221.648	0.464891	1/29/15	0:14	1825.71	0.392482	7.165577	mg/L
CCV	Mg 279.077	0.52132	1/29/15	0:13	6714.185	1.87131	125.6432	mg/L
CCV	Sb 206.836	0.574449	1/29/15	0:14	672.4217	1.030164	6.927049	mg/L
CCV	Sb 217.582	0.508518	1/29/15	0:14	608.322	0.224518	1.365792	mg/L
CCV	Sb 231.146	1.331794	1/29/15	0:13	3380.807	0.70939	23.9831	mg/L
CCV	Cr 284.325	0.527716	1/29/15	0:13	35913.16	0.550085	197.5529	mg/L
CCV	Cd 228.802	0.486087	1/29/15	0:13	12887.62	0.364969	47.03583	mg/L
CCV	Cd 214.440	0.495014	1/29/15	0:13	22334.89	0.751321	167.8066	mg/L
CCV	Cd 226.502	0.500082	1/29/15	0:13	17032.45	0.659303	112.2955	mg/L
CCV	Cu 324.752	0.512314	1/29/15	0:13	156898.7	1.598528	2508.068	mg/L
CCV	Cu 327.393	0.523386	1/29/15	0:13	60723.63	1.720407	1044.694	mg/L
CCV	Co 238.892	0.055523	1/29/15	0:13	1998.507	4.13567	82.65164	mg/L
CCV	Fe 239.562	0.510809	1/29/15	0:13	17942.41	2.059786	369.5752	mg/L
CCV	Fe 259.939	0.570805	1/29/15	0:13	67373.33	2.073374	1396.901	mg/L
CCV	Fe 234.349	0.542408	1/29/15	0:13	12657.06	1.959813	248.0547	mg/L
CCV	Mn 259.372	0.454102	1/29/15	0:13	206289.3	0.361396	745.5213	mg/L
CCV	Cr 267.716	0.541779	1/29/15	0:13	23980.86	0.59072	141.6597	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	74.17033	1/29/15	0:18	2471326	0.371483	9180.556	%
CCB	Al 394.401	0.021959	1/29/15	0:18	391.0051	7.544832	29.50067	mg/L
CCB	B 249.772	0.02598	1/29/15	0:18	2181.84	3.242363	70.74317	mg/L
CCB	Ba 233.527	-0.00389	1/29/15	0:18	-11.7512	37.20908	4.372507	mg/L
CCB	Ba 413.065	-0.00568	1/29/15	0:18	-210.945	12.4936	26.35466	mg/L
CCB	Be 234.861	0.001575	1/29/15	0:18	92.46511	3.977304	3.677618	mg/L
CCB	Be 313.042	0.001309	1/29/15	0:18	9253.475	1.508782	139.6148	mg/L
CCB	Fe 238.204	0.00276	1/29/15	0:18	826.3153	2.378473	19.65368	mg/L
CCB	Pb 220.353	-0.00447	1/29/15	0:18	-61.1748	7.072483	4.32658	mg/L
CCB	Mn 257.610	-0.0006	1/29/15	0:18	343.1632	1.962338	6.734021	mg/L
CCB	Ni 231.604	0.00343	1/29/15	0:18	66.63709	3.631211	2.419733	mg/L
CCB	Se 196.026	-0.01494	1/29/15	0:18	-0.07804	4055.531	3.165034	mg/L
CCB	Ag 328.068	-0.01831	1/29/15	0:18	-1842.09	1.795028	33.06601	mg/L
CCB	Ag 338.289	0.003551	1/29/15	0:18	-38.7056	120.8156	46.76238	mg/L
CCB	Tl 351.924	-0.00469	1/29/15	0:18	-6.69407	148.1083	9.914472	mg/L
CCB	As 193.696	-0.00477	1/29/15	0:18	-0.96251	119.0785	1.146148	mg/L
CCB	As 197.197	-0.03361	1/29/15	0:18	-1.02195	79.15997	0.808978	mg/L
CCB	Ba 230.425	-0.0184	1/29/15	0:18	39.36791	5.062065	1.992829	mg/L
CCB	V 292.402	0.005231	1/29/15	0:18	75.38511	6.171814	4.652629	mg/L
CCB	Zn 213.857	-0.05625	1/29/15	0:18	-3024.12	0.071327	2.157017	mg/L
CCB	Zn 202.548	-0.03884	1/29/15	0:18	-1254.12	0.111558	1.399071	mg/L
CCB	Mo 203.845	-0.07595	1/29/15	0:18	9.965927	32.75301	3.264141	mg/L
CCB	Mo 204.597	-0.07315	1/29/15	0:18	18.31422	12.20412	2.23509	mg/L
CCB	Cr 205.560	-0.0028	1/29/15	0:18	12.34916	25.21131	3.113385	mg/L
CCB	Mn 260.568	0.001334	1/29/15	0:18	183.4546	3.10499	5.696247	mg/L
CCB	Ni 221.648	0.001765	1/29/15	0:18	-3.26949	44.19337	1.444897	mg/L
CCB	Mg 279.077	-0.12508	1/29/15	0:18	213.2117	1.499886	3.197933	mg/L
CCB	Sb 206.836	0.080371	1/29/15	0:18	0.997602	85.2331	0.850288	mg/L
CCB	Sb 217.582	0.014191	1/29/15	0:18	0.834811	163.4075	1.364144	mg/L
CCB	Sb 231.146	0.012391	1/29/15	0:18	9.305817	24.42864	2.273285	mg/L
CCB	Cr 284.325	0.003494	1/29/15	0:18	417.588	10.49198	43.81326	mg/L
CCB	Cd 228.802	-0.00272	1/29/15	0:18	-29.3187	7.641686	2.240446	mg/L
CCB	Cd 214.440	0.000416	1/29/15	0:18	52.70762	3.880531	2.045336	mg/L
CCB	Cd 226.502	-0.00075	1/29/15	0:18	29.43026	10.0322	2.952502	mg/L
CCB	Cu 324.752	2.13E-05	1/29/15	0:18	421.9223	4.708696	19.86704	mg/L
CCB	Cu 327.393	0.000293	1/29/15	0:18	-436.074	11.17161	48.71655	mg/L
CCB	Co 238.892	-0.00418	1/29/15	0:18	139.0018	0.89811	1.248388	mg/L
CCB	Fe 239.562	0.003147	1/29/15	0:18	710.9183	2.671098	18.98933	mg/L
CCB	Fe 259.939	0.005297	1/29/15	0:18	2527.423	2.592284	65.51797	mg/L
CCB	Fe 234.349	-0.01131	1/29/15	0:18	165.8197	7.559139	12.53454	mg/L
CCB	Mn 259.372	-0.03227	1/29/15	0:18	343.2484	1.834169	6.295753	mg/L
CCB	Cr 267.716	8.76E-05	1/29/15	0:18	69.00278	12.04687	8.312675	mg/L



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Metals

Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
LCS	Y 371.029	98.89183	1/28/15	10:48	3295036	1.132726	37323.74	%
LCS	Al 394.401	0.745151	1/28/15	10:49	23274.44	0.645956	150.3427	mg/L
LCS	B 249.772	0.664907	1/28/15	10:49	38796.53	0.417485	161.9697	mg/L
LCS	Ba 233.527	0.541274	1/28/15	10:49	22000.82	0.322594	70.97336	mg/L
LCS	Ba 413.065	0.611528	1/28/15	10:49	63758.94	0.326682	208.2889	mg/L
LCS	Be 234.861	0.566576	1/28/15	10:49	245562.8	0.274419	673.8698	mg/L
LCS	Be 313.042	0.59696	1/28/15	10:49	2477833	0.504717	12506.04	mg/L
LCS	Fe 238.204	0.555775	1/28/15	10:49	21717.91	0.400884	87.06364	mg/L
LCS	Pb 220.353	0.50578	1/28/15	10:49	1378.948	0.09409	1.297448	mg/L
LCS	Mn 257.610	0.562251	1/28/15	10:49	248836.2	0.294839	733.6659	mg/L
LCS	Ni 231.604	0.53217	1/28/15	10:49	9946.157	0.304365	30.27259	mg/L
LCS	Se 196.026	0.515253	1/28/15	10:49	200.9091	1.106226	2.222509	mg/L
LCS	Ag 328.068	0.509057	1/28/15	10:49	94707.37	0.218111	206.5672	mg/L
LCS	Ag 338.289	0.470702	1/28/15	10:49	61201.65	0.122234	74.80951	mg/L
LCS	Tl 351.924	0.565302	1/28/15	10:49	2531.439	0.192954	4.884525	mg/L
LCS	As 193.696	0.517673	1/28/15	10:49	248.4131	0.51134	1.270236	mg/L
LCS	As 197.197	0.528309	1/28/15	10:49	130.4125	1.052203	1.372204	mg/L
LCS	Ba 230.425	0.505275	1/28/15	10:49	23842.74	0.266003	63.42235	mg/L
LCS	V 292.402	0.55325	1/28/15	10:49	48559.84	0.292431	142.0042	mg/L
LCS	Zn 213.857	0.547257	1/28/15	10:49	17130.59	0.192259	32.93516	mg/L
LCS	Zn 202.548	0.507609	1/28/15	10:49	6643.13	0.472584	31.39437	mg/L
LCS	Mo 203.845	0.414127	1/28/15	10:49	1354.989	0.263116	3.565197	mg/L
LCS	Mo 204.597	0.410956	1/28/15	10:49	1606.444	0.164353	2.640235	mg/L
LCS	Cr 205.560	0.500585	1/28/15	10:49	6144.234	0.258109	15.85883	mg/L
LCS	Mn 260.568	0.579648	1/28/15	10:49	135830.3	0.258908	351.6749	mg/L
LCS	Ni 221.648	0.521961	1/28/15	10:49	2051.094	0.788994	16.18301	mg/L
LCS	Mg 279.077	0.520573	1/28/15	10:49	6706.666	0.403298	27.04787	mg/L
LCS	Sb 206.836	0.582531	1/28/15	10:49	683.4038	0.132734	0.907112	mg/L
LCS	Sb 217.582	0.52388	1/28/15	10:49	627.2011	0.278825	1.748794	mg/L
LCS	Sb 231.146	1.489683	1/28/15	10:49	3784.265	0.824364	31.19612	mg/L
LCS	Cr 284.325	0.55929	1/28/15	10:49	38051.05	0.200789	76.40221	mg/L
LCS	Cd 228.802	0.517841	1/28/15	10:49	13726.73	0.19704	27.04718	mg/L
LCS	Cd 214.440	0.556306	1/28/15	10:49	25096.16	0.474804	119.1576	mg/L
LCS	Cd 226.502	0.561068	1/28/15	10:49	19102.91	0.377345	72.08388	mg/L
LCS	Cu 324.752	0.526864	1/28/15	10:49	161342.8	0.153946	248.3811	mg/L
LCS	Cu 327.393	0.543083	1/28/15	10:49	63026.53	0.223476	140.8493	mg/L
LCS	Co 238.892	0.044574	1/28/15	10:49	1657.474	0.461045	7.641696	mg/L
LCS	Fe 239.562	0.541322	1/28/15	10:49	18978.09	0.602998	114.4375	mg/L
LCS	Fe 259.939	0.57387	1/28/15	10:49	67724.73	0.351241	237.8772	mg/L
LCS	Fe 234.349	0.552064	1/28/15	10:49	12874.88	0.424017	54.59169	mg/L
LCS	Mn 259.372	0.511186	1/28/15	10:49	230461	0.328601	757.297	mg/L
LCS	Cr 267.716	0.600669	1/28/15	10:49	26580.44	0.33667	89.4885	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
MB	Y 371.029	93.01008	1/28/15	10:53	3099058	0.318238	9862.382	%
MB	Al 394.401	0.025967	1/28/15	10:53	517.8164	4.740947	24.5494	mg/L
MB	B 249.772	0.030281	1/28/15	10:53	2428.31	2.933185	71.22683	mg/L
MB	Ba 233.527	-0.00379	1/28/15	10:53	-7.82544	45.74528	3.579772	mg/L
MB	Ba 413.065	-0.00344	1/28/15	10:53	20.93621	149.8465	31.37219	mg/L
MB	Be 234.861	0.001573	1/28/15	10:53	91.40252	2.661887	2.433032	mg/L
MB	Be 313.042	-0.00022	1/28/15	10:53	2897.875	10.67459	309.3364	mg/L
MB	Fe 238.204	-0.01153	1/28/15	10:53	286.6526	2.01055	5.763295	mg/L
MB	Pb 220.353	-0.00856	1/28/15	10:53	-72.7019	10.08146	7.329409	mg/L
MB	Mn 257.610	-0.00085	1/28/15	10:53	232.4179	3.64916	8.4813	mg/L
MB	Ni 231.604	0.0022	1/28/15	10:53	43.64965	6.193889	2.703611	mg/L
MB	Se 196.026	-0.01334	1/28/15	10:53	0.529342	551.1007	2.917206	mg/L
MB	Ag 328.068	-0.01927	1/28/15	10:53	-2018.56	4.793878	96.76731	mg/L
MB	Ag 338.289	0.003337	1/28/15	10:53	-66.8376	27.64703	18.4786	mg/L
MB	Tl 351.924	-0.00394	1/28/15	10:53	-3.35309	232.0493	7.780823	mg/L
MB	As 193.696	-0.0025	1/28/15	10:53	0.122549	1193.757	1.462934	mg/L
MB	As 197.197	-0.03593	1/28/15	10:53	-1.5656	85.70332	1.341774	mg/L
MB	Ba 230.425	-0.01856	1/28/15	10:53	31.84917	20.97819	6.681379	mg/L
MB	V 292.402	0.004504	1/28/15	10:53	11.14821	28.89114	3.220846	mg/L
MB	Zn 213.857	-0.05832	1/28/15	10:53	-3093.32	0.059356	1.836058	mg/L
MB	Zn 202.548	-0.04084	1/28/15	10:53	-1282.95	0.111479	1.43023	mg/L
MB	Mo 203.845	-0.07724	1/28/15	10:53	6.447297	31.27044	2.016098	mg/L
MB	Mo 204.597	-0.07394	1/28/15	10:53	15.73098	15.44822	2.430156	mg/L
MB	Cr 205.560	-0.00327	1/28/15	10:53	6.67945	15.72892	1.050605	mg/L
MB	Mn 260.568	0.001086	1/28/15	10:53	125.1461	5.773968	7.225895	mg/L
MB	Ni 221.648	0.002626	1/28/15	10:53	0.127642	1374.081	1.753906	mg/L
MB	Mg 279.077	-0.12973	1/28/15	10:53	166.4579	8.900503	14.81559	mg/L
MB	Sb 206.836	0.081682	1/28/15	10:53	2.779042	85.48256	2.375597	mg/L
MB	Sb 217.582	0.013838	1/28/15	10:53	0.401049	314.129	1.259812	mg/L
MB	Sb 231.146	0.012307	1/28/15	10:53	9.090122	20.27619	1.84313	mg/L
MB	Cr 284.325	-0.01078	1/28/15	10:53	-548.617	2.952146	16.19598	mg/L
MB	Cd 228.802	-0.00249	1/28/15	10:53	-23.3331	14.41911	3.364424	mg/L
MB	Cd 214.440	0.000206	1/28/15	10:53	43.27427	13.22333	5.722297	mg/L
MB	Cd 226.502	-0.00088	1/28/15	10:53	24.95822	6.964961	1.73833	mg/L
MB	Cu 324.752	-0.00103	1/28/15	10:53	101.7528	38.7745	39.45413	mg/L
MB	Cu 327.393	0.002359	1/28/15	10:53	-194.572	14.88933	28.97046	mg/L
MB	Co 238.892	-0.00744	1/28/15	10:53	37.48197	4.629755	1.735324	mg/L
MB	Fe 239.562	-0.0099	1/28/15	10:53	267.9999	4.43643	11.88963	mg/L
MB	Fe 259.939	-0.0093	1/28/15	10:53	853.8361	0.297582	2.540864	mg/L
MB	Fe 234.349	-0.02127	1/28/15	10:53	-58.7855	6.897272	4.054595	mg/L
MB	Mn 259.372	-0.03248	1/28/15	10:53	254.2046	2.956978	7.516775	mg/L
MB	Cr 267.716	-0.00056	1/28/15	10:53	40.25105	14.84219	5.974138	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
LCS2	Y 371.029	99.5082	1/28/15	10:58	3315573	0.65258	21636.78	%
LCS2	Al 394.401	0.713103	1/28/15	10:58	22260.39	0.459187	102.2168	mg/L
LCS2	B 249.772	0.660107	1/28/15	10:58	38521.47	0.268747	103.5254	mg/L
LCS2	Ba 233.527	0.53552	1/28/15	10:58	21768.48	0.373842	81.37963	mg/L
LCS2	Ba 413.065	0.607347	1/28/15	10:58	63325.62	0.306686	194.2106	mg/L
LCS2	Be 234.861	0.565737	1/28/15	10:58	245198.4	0.258248	633.2197	mg/L
LCS2	Be 313.042	0.596229	1/28/15	10:58	2474806	0.218221	5400.553	mg/L
LCS2	Fe 238.204	0.539236	1/28/15	10:58	21093.12	0.55782	117.6616	mg/L
LCS2	Pb 220.353	0.502747	1/28/15	10:58	1370.39	0.479945	6.577112	mg/L
LCS2	Mn 257.610	0.558818	1/28/15	10:58	247320.9	0.229395	567.3419	mg/L
LCS2	Ni 231.604	0.529599	1/28/15	10:58	9898.131	0.247172	24.46545	mg/L
LCS2	Se 196.026	0.527203	1/28/15	10:58	205.4388	0.670555	1.377581	mg/L
LCS2	Ag 328.068	0.505496	1/28/15	10:58	94055.41	0.291544	274.213	mg/L
LCS2	Ag 338.289	0.46692	1/28/15	10:58	60705.9	0.34053	206.722	mg/L
LCS2	Tl 351.924	0.559926	1/28/15	10:58	2507.5	1.084774	27.20069	mg/L
LCS2	As 193.696	0.519101	1/28/15	10:58	249.0945	1.180107	2.939581	mg/L
LCS2	As 197.197	0.523588	1/28/15	10:58	129.3083	1.61335	2.086196	mg/L
LCS2	Ba 230.425	0.500019	1/28/15	10:58	23603.8	0.255473	60.30144	mg/L
LCS2	V 292.402	0.547932	1/28/15	10:58	48089.34	0.5203	250.209	mg/L
LCS2	Zn 213.857	0.543391	1/28/15	10:58	17001.48	0.47741	81.16685	mg/L
LCS2	Zn 202.548	0.503714	1/28/15	10:58	6586.849	0.303625	19.99933	mg/L
LCS2	Mo 203.845	0.41122	1/28/15	10:58	1347.01	0.384351	5.177245	mg/L
LCS2	Mo 204.597	0.407413	1/28/15	10:58	1594.819	0.157713	2.51524	mg/L
LCS2	Cr 205.560	0.495987	1/28/15	10:58	6088.227	0.246199	14.98918	mg/L
LCS2	Mn 260.568	0.574268	1/28/15	10:58	134568.5	0.381104	512.8463	mg/L
LCS2	Ni 221.648	0.526505	1/28/15	10:58	2069.038	0.071098	1.471045	mg/L
LCS2	Mg 279.077	0.486828	1/28/15	10:58	6367.291	0.702181	44.70989	mg/L
LCS2	Sb 206.836	0.581437	1/28/15	10:58	681.9171	0.636694	4.341724	mg/L
LCS2	Sb 217.582	0.524078	1/28/15	10:58	627.4445	0.411856	2.584166	mg/L
LCS2	Sb 231.146	1.474899	1/28/15	10:58	3746.488	0.525422	19.68488	mg/L
LCS2	Cr 284.325	0.556088	1/28/15	10:58	37834.23	0.504035	190.6977	mg/L
LCS2	Cd 228.802	0.51452	1/28/15	10:58	13638.96	0.297916	40.63266	mg/L
LCS2	Cd 214.440	0.553448	1/28/15	10:58	24967.39	0.368013	91.88324	mg/L
LCS2	Cd 226.502	0.557839	1/28/15	10:58	18993.28	0.418875	79.55817	mg/L
LCS2	Cu 324.752	0.522368	1/28/15	10:58	159969.7	0.435211	696.2053	mg/L
LCS2	Cu 327.393	0.538902	1/28/15	10:58	62537.75	0.383114	239.5906	mg/L
LCS2	Co 238.892	0.041474	1/28/15	10:58	1560.913	1.520981	23.74119	mg/L
LCS2	Fe 239.562	0.525486	1/28/15	10:58	18440.56	0.345248	63.66573	mg/L
LCS2	Fe 259.939	0.556927	1/28/15	10:58	65781.96	0.428888	282.1306	mg/L
LCS2	Fe 234.349	0.536004	1/28/15	10:58	12512.6	0.685649	85.79249	mg/L
LCS2	Mn 259.372	0.50841	1/28/15	10:58	229285.5	0.244301	560.1464	mg/L
LCS2	Cr 267.716	0.595247	1/28/15	10:58	26341.11	0.478892	126.1454	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
MB2	Y 371.029	109.5413	1/28/15	11:02	3649874	0.529923	19341.52	%
MB2	Al 394.401	0.050777	1/28/15	11:02	1302.859	1.038641	13.53202	mg/L
MB2	B 249.772	0.056193	1/28/15	11:02	3913.246	1.663571	65.09962	mg/L
MB2	Ba 233.527	-0.00351	1/28/15	11:03	3.331155	81.9047	2.728373	mg/L
MB2	Ba 413.065	-0.00329	1/28/15	11:02	36.75465	103.342	37.98298	mg/L
MB2	Be 234.861	0.001625	1/28/15	11:03	114.0228	5.272609	6.011977	mg/L
MB2	Be 313.042	-0.001	1/28/15	11:02	-335.598	11.83401	39.71468	mg/L
MB2	Fe 238.204	-0.00878	1/28/15	11:03	390.5411	0.739825	2.88932	mg/L
MB2	Pb 220.353	-0.00789	1/28/15	11:03	-70.8197	2.635019	1.866113	mg/L
MB2	Mn 257.610	-0.0007	1/28/15	11:03	299.1714	4.659482	13.93984	mg/L
MB2	Ni 231.604	0.002308	1/28/15	11:03	45.65644	4.826247	2.203493	mg/L
MB2	Se 196.026	-0.0117	1/28/15	11:03	1.149355	261.7768	3.008745	mg/L
MB2	Ag 328.068	-0.02798	1/28/15	11:02	-3612.17	3.378928	122.0526	mg/L
MB2	Ag 338.289	0.004888	1/28/15	11:02	136.4885	15.0995	20.60908	mg/L
MB2	Tl 351.924	0.000478	1/28/15	11:02	16.31974	170.1851	27.77377	mg/L
MB2	As 193.696	0.001214	1/28/15	11:03	1.893655	110.6471	2.095274	mg/L
MB2	As 197.197	-0.0319	1/28/15	11:03	-0.62348	194.378	1.211915	mg/L
MB2	Ba 230.425	-0.01844	1/28/15	11:03	37.64339	15.13055	5.695653	mg/L
MB2	V 292.402	0.00458	1/28/15	11:02	17.81914	60.83202	10.83974	mg/L
MB2	Zn 213.857	-0.03688	1/28/15	11:03	-2377.18	0.102147	2.428201	mg/L
MB2	Zn 202.548	-0.02082	1/28/15	11:03	-993.648	0.124945	1.24151	mg/L
MB2	Mo 203.845	-0.07694	1/28/15	11:03	7.272226	12.7997	0.930823	mg/L
MB2	Mo 204.597	-0.0738	1/28/15	11:03	16.21	10.01895	1.624072	mg/L
MB2	Cr 205.560	-0.00327	1/28/15	11:03	6.593611	62.86123	4.144825	mg/L
MB2	Mn 260.568	0.001254	1/28/15	11:03	164.6346	2.294569	3.777654	mg/L
MB2	Ni 221.648	-0.003	1/28/15	11:03	-22.0856	11.30312	2.496362	mg/L
MB2	Mg 279.077	-0.13071	1/28/15	11:03	156.6176	4.505098	7.055778	mg/L
MB2	Sb 206.836	0.079842	1/28/15	11:03	0.279125	2093.764	5.844214	mg/L
MB2	Sb 217.582	0.013603	1/28/15	11:03	0.111976	1905.79	2.134036	mg/L
MB2	Sb 231.146	0.011594	1/28/15	11:03	7.26879	20.6774	1.502997	mg/L
MB2	Cr 284.325	-0.01009	1/28/15	11:02	-502.058	6.603416	33.15297	mg/L
MB2	Cd 228.802	-0.00226	1/28/15	11:03	-17.2783	26.21634	4.529746	mg/L
MB2	Cd 214.440	0.000384	1/28/15	11:03	51.2738	10.52627	5.397218	mg/L
MB2	Cd 226.502	-0.00067	1/28/15	11:03	32.00845	9.007366	2.883118	mg/L
MB2	Cu 324.752	0.001102	1/28/15	11:02	751.8658	1.681906	12.64568	mg/L
MB2	Cu 327.393	0.003179	1/28/15	11:02	-98.7038	21.79365	21.51116	mg/L
MB2	Co 238.892	-0.00684	1/28/15	11:03	56.17717	13.25878	7.448408	mg/L
MB2	Fe 239.562	-0.00729	1/28/15	11:03	356.6409	0.932499	3.325671	mg/L
MB2	Fe 259.939	-0.00631	1/28/15	11:03	1195.901	1.576182	18.84958	mg/L
MB2	Fe 234.349	-0.01657	1/28/15	11:03	47.21849	7.175241	3.388041	mg/L
MB2	Mn 259.372	-0.03231	1/28/15	11:03	324.3104	4.005534	12.99036	mg/L
MB2	Cr 267.716	-0.00066	1/28/15	11:03	36.16537	16.81429	6.080951	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
LCS3	Y 371.029	99.51909	1/28/15	11:07	3315936	0.630452	20905.38	%
LCS3	Al 394.401	0.704774	1/28/15	11:07	21996.83	0.745897	164.0736	mg/L
LCS3	B 249.772	0.65827	1/28/15	11:07	38416.2	0.562429	216.0637	mg/L
LCS3	Ba 233.527	0.533842	1/28/15	11:07	21700.71	0.623668	135.3403	mg/L
LCS3	Ba 413.065	0.604407	1/28/15	11:07	63020.92	0.184599	116.3362	mg/L
LCS3	Be 234.861	0.562534	1/28/15	11:07	243806.9	0.178983	436.3733	mg/L
LCS3	Be 313.042	0.593968	1/28/15	11:07	2465435	0.319684	7881.605	mg/L
LCS3	Fe 238.204	0.53563	1/28/15	11:07	20956.91	0.790395	165.6422	mg/L
LCS3	Pb 220.353	0.501353	1/28/15	11:08	1366.454	0.761921	10.4113	mg/L
LCS3	Mn 257.610	0.556242	1/28/15	11:07	246183.5	0.251971	620.3119	mg/L
LCS3	Ni 231.604	0.527601	1/28/15	11:07	9860.796	0.787738	77.67721	mg/L
LCS3	Se 196.026	0.52416	1/28/15	11:08	204.2853	0.865965	1.769038	mg/L
LCS3	Ag 328.068	0.504424	1/28/15	11:07	93859.14	0.573898	538.6562	mg/L
LCS3	Ag 338.289	0.465236	1/28/15	11:07	60485.15	0.537659	325.2038	mg/L
LCS3	Tl 351.924	0.563399	1/28/15	11:07	2522.961	1.140805	28.78206	mg/L
LCS3	As 193.696	0.522093	1/28/15	11:08	250.5229	0.737563	1.847764	mg/L
LCS3	As 197.197	0.513508	1/28/15	11:08	126.9504	0.693716	0.880675	mg/L
LCS3	Ba 230.425	0.498864	1/28/15	11:07	23551.33	0.523983	123.4049	mg/L
LCS3	V 292.402	0.546476	1/28/15	11:07	47960.57	0.743651	356.6594	mg/L
LCS3	Zn 213.857	0.541818	1/28/15	11:07	16948.95	0.656148	111.2101	mg/L
LCS3	Zn 202.548	0.503602	1/28/15	11:07	6585.224	0.983793	64.78499	mg/L
LCS3	Mo 203.845	0.410226	1/28/15	11:08	1344.281	0.334681	4.499057	mg/L
LCS3	Mo 204.597	0.405716	1/28/15	11:08	1589.251	0.315406	5.01259	mg/L
LCS3	Cr 205.560	0.495083	1/28/15	11:07	6077.222	0.636771	38.698	mg/L
LCS3	Mn 260.568	0.572582	1/28/15	11:07	134173	0.713994	957.9866	mg/L
LCS3	Ni 221.648	0.515052	1/28/15	11:07	2023.809	1.412849	28.59337	mg/L
LCS3	Mg 279.077	0.478842	1/28/15	11:07	6286.972	0.737105	46.34161	mg/L
LCS3	Sb 206.836	0.579797	1/28/15	11:08	679.689	0.580808	3.947685	mg/L
LCS3	Sb 217.582	0.520745	1/28/15	11:08	623.3479	0.407327	2.539062	mg/L
LCS3	Sb 231.146	1.473439	1/28/15	11:07	3742.757	0.456859	17.09912	mg/L
LCS3	Cr 284.325	0.553032	1/28/15	11:07	37627.32	0.768878	289.3083	mg/L
LCS3	Cd 228.802	0.51306	1/28/15	11:07	13600.38	0.4864	66.15218	mg/L
LCS3	Cd 214.440	0.550757	1/28/15	11:07	24846.16	0.814816	202.4506	mg/L
LCS3	Cd 226.502	0.555385	1/28/15	11:07	18909.98	0.765629	144.7803	mg/L
LCS3	Cu 324.752	0.520921	1/28/15	11:07	159527.6	0.156632	249.8706	mg/L
LCS3	Cu 327.393	0.536772	1/28/15	11:07	62288.7	0.792086	493.38	mg/L
LCS3	Co 238.892	0.040036	1/28/15	11:07	1516.123	0.817802	12.39888	mg/L
LCS3	Fe 239.562	0.522977	1/28/15	11:07	18355.41	0.831653	152.6532	mg/L
LCS3	Fe 259.939	0.553025	1/28/15	11:07	65334.5	0.644733	421.2328	mg/L
LCS3	Fe 234.349	0.530939	1/28/15	11:07	12398.32	0.913265	113.2295	mg/L
LCS3	Mn 259.372	0.505579	1/28/15	11:07	228086.7	0.257628	587.6147	mg/L
LCS3	Cr 267.716	0.592964	1/28/15	11:07	26240.36	0.649725	170.4902	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
MB3	Y 371.029	95.69977	1/28/15	11:12	3188678	0.238784	7614.048	%
MB3	Al 394.401	0.018828	1/28/15	11:12	291.9165	7.041345	20.55485	mg/L
MB3	B 249.772	0.031355	1/28/15	11:12	2489.848	2.960061	73.70103	mg/L
MB3	Ba 233.527	-0.00384	1/28/15	11:12	-9.87691	34.23173	3.381036	mg/L
MB3	Ba 413.065	-0.00399	1/28/15	11:12	-35.7656	56.00641	20.03105	mg/L
MB3	Be 234.861	0.001576	1/28/15	11:12	92.81078	4.592334	4.262181	mg/L
MB3	Be 313.042	-0.00032	1/28/15	11:12	2505.154	7.775151	194.7795	mg/L
MB3	Fe 238.204	-0.01809	1/28/15	11:12	38.71402	9.607341	3.719388	mg/L
MB3	Pb 220.353	-0.00848	1/28/15	11:12	-72.4804	3.574349	2.590704	mg/L
MB3	Mn 257.610	-0.00111	1/28/15	11:12	117.945	12.32964	14.5422	mg/L
MB3	Ni 231.604	0.001994	1/28/15	11:12	39.79042	1.679344	0.668218	mg/L
MB3	Se 196.026	-0.01015	1/28/15	11:12	1.738747	109.3794	1.901831	mg/L
MB3	Ag 328.068	-0.01896	1/28/15	11:12	-1961.71	1.396441	27.39413	mg/L
MB3	Ag 338.289	0.003455	1/28/15	11:12	-51.3149	23.87844	12.25318	mg/L
MB3	Tl 351.924	-0.00508	1/28/15	11:12	-8.45279	153.7597	12.99699	mg/L
MB3	As 193.696	-0.00324	1/28/15	11:12	-0.2332	782.0265	1.82369	mg/L
MB3	As 197.197	-0.03169	1/28/15	11:12	-0.5737	295.4332	1.694892	mg/L
MB3	Ba 230.425	-0.01874	1/28/15	11:12	23.78519	24.36811	5.796001	mg/L
MB3	V 292.402	0.004481	1/28/15	11:12	9.104067	200.4203	18.2464	mg/L
MB3	Zn 213.857	-0.05821	1/28/15	11:12	-3089.52	0.107079	3.308229	mg/L
MB3	Zn 202.548	-0.04071	1/28/15	11:12	-1281.16	0.154536	1.979857	mg/L
MB3	Mo 203.845	-0.0769	1/28/15	11:12	7.371752	31.89061	2.350897	mg/L
MB3	Mo 204.597	-0.07396	1/28/15	11:12	15.68054	17.08695	2.679326	mg/L
MB3	Cr 205.560	-0.00337	1/28/15	11:12	5.410258	98.6058	5.334828	mg/L
MB3	Mn 260.568	0.000838	1/28/15	11:12	67.07149	10.3471	6.939956	mg/L
MB3	Ni 221.648	0.00161	1/28/15	11:12	-3.88167	43.5348	1.689879	mg/L
MB3	Mg 279.077	-0.14407	1/28/15	11:12	22.22902	50.3971	11.20278	mg/L
MB3	Sb 206.836	0.080625	1/28/15	11:12	1.343673	228.9601	3.076474	mg/L
MB3	Sb 217.582	0.013695	1/28/15	11:12	0.225383	705.4919	1.590059	mg/L
MB3	Sb 231.146	0.011684	1/28/15	11:12	7.498662	23.14479	1.735549	mg/L
MB3	Cr 284.325	-0.01039	1/28/15	11:12	-522.369	8.142942	42.53623	mg/L
MB3	Cd 228.802	-0.00234	1/28/15	11:12	-19.3511	11.84329	2.291812	mg/L
MB3	Cd 214.440	0.000212	1/28/15	11:12	43.55651	5.357275	2.333442	mg/L
MB3	Cd 226.502	-0.00092	1/28/15	11:12	23.57778	19.6742	4.638739	mg/L
MB3	Cu 324.752	-0.00063	1/28/15	11:12	223.9379	19.93392	44.63962	mg/L
MB3	Cu 327.393	0.002448	1/28/15	11:12	-184.161	15.52201	28.58546	mg/L
MB3	Co 238.892	-0.00892	1/28/15	11:12	-8.80512	48.49255	4.269825	mg/L
MB3	Fe 239.562	-0.01615	1/28/15	11:12	55.94884	13.01959	7.284311	mg/L
MB3	Fe 259.939	-0.01609	1/28/15	11:12	75.17446	38.98784	29.3089	mg/L
MB3	Fe 234.349	-0.02758	1/28/15	11:12	-201.267	1.97801	3.981075	mg/L
MB3	Mn 259.372	-0.03273	1/28/15	11:12	145.4822	3.914103	5.694323	mg/L
MB3	Cr 267.716	-0.0008	1/28/15	11:12	29.86292	25.51433	7.619323	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1333	Y 371.029	62.9824	1/28/15	19:24	2098548	0.486503	10209.5	%
1333	Al 394.401	90.17539	1/28/15	19:24	2853052	0.097252	2774.649	mg/L
1333	B 249.772	0.810773	1/28/15	19:24	47155.58	0.24803	116.9599	mg/L
1333	Ba 233.527	0.454807	1/28/15	19:24	18509.46	0.304974	56.44901	mg/L
1333	Ba 413.065	0.515254	1/28/15	19:24	53780.75	0.270289	145.3634	mg/L
1333	Be 234.861	-0.29844	1/28/15	19:24	-130252	0.474906	618.5724	mg/L
1333	Be 313.042	0.006596	1/28/15	19:24	31162.13	0.994656	309.9559	mg/L
1333	Fe 238.204	87.24602	1/28/15	19:24	3296670	0.424134	13982.29	mg/L
1333	Pb 220.353	0.072056	1/28/15	19:24	154.8133	0.649492	1.005501	mg/L
1333	Mn 257.610	5.236488	1/28/15	19:24	2312476	0.341344	7893.494	mg/L
1333	Ni 231.604	0.102026	1/28/15	19:24	1908.905	0.115281	2.200601	mg/L
1333	Se 196.026	-0.1083	1/28/15	19:24	-35.4676	9.514164	3.374442	mg/L
1333	Ag 328.068	-0.00932	1/28/15	19:24	-196.403	6.814693	13.38429	mg/L
1333	Ag 338.289	0.001874	1/28/15	19:24	-258.557	15.05702	38.931	mg/L
1333	Tl 351.924	0.030556	1/28/15	19:24	150.2521	3.633492	5.459396	mg/L
1333	As 193.696	0.069699	1/28/15	19:24	34.5833	5.502512	1.90295	mg/L
1333	As 197.197	0.040052	1/28/15	19:24	16.20718	3.412884	0.553132	mg/L
1333	Ba 230.425	0.418103	1/28/15	19:24	19880.34	0.15233	30.28366	mg/L
1333	V 292.402	0.143621	1/28/15	19:24	12319.12	0.27593	33.99212	mg/L
1333	Zn 213.857	0.320535	1/28/15	19:24	9559.006	0.11493	10.98613	mg/L
1333	Zn 202.548	0.145341	1/28/15	19:24	1407.694	1.315815	18.52265	mg/L
1333	Mo 203.845	-0.07003	1/28/15	19:24	26.23528	8.634713	2.265341	mg/L
1333	Mo 204.597	-0.06286	1/28/15	19:24	52.09792	1.531505	0.797883	mg/L
1333	Cr 205.560	0.077436	1/28/15	19:24	989.7276	1.220434	12.07898	mg/L
1333	Mn 260.568	5.417668	1/28/15	19:24	1270616	0.324061	4117.573	mg/L
1333	Ni 221.648	-0.35348	1/28/15	19:24	-1406.21	0.375421	5.279216	mg/L
1333	Mg 279.077	360.9542	1/28/15	19:24	3631657	0.253503	9206.352	mg/L
1333	Sb 206.836	0.073651	1/28/15	19:24	-8.13363	86.75983	7.056722	mg/L
1333	Sb 217.582	-0.08117	1/28/15	19:24	-116.354	3.922794	4.564328	mg/L
1333	Sb 231.146	0.161632	1/28/15	19:24	390.6652	0.804118	3.141409	mg/L
1333	Cr 284.325	0.09636	1/28/15	19:24	6705.649	0.761502	51.06365	mg/L
1333	Cd 228.802	-0.00098	1/28/15	19:24	16.64187	12.62548	2.101116	mg/L
1333	Cd 214.440	0.009366	1/28/15	19:24	455.934	0.676948	3.086436	mg/L
1333	Cd 226.502	0.025165	1/28/15	19:24	909.2111	1.38825	12.62212	mg/L
1333	Cu 324.752	0.121324	1/28/15	19:24	37473.16	0.289387	108.4425	mg/L
1333	Cu 327.393	0.123919	1/28/15	19:24	14018.19	0.487775	68.37728	mg/L
1333	Co 238.892	23.23497	1/28/15	19:24	723966.2	0.388783	2814.66	mg/L
1333	Fe 239.562	88.31464	1/28/15	19:24	2998254	0.456471	13686.15	mg/L
1333	Fe 259.939	91.28946	1/28/15	19:23	10469937	0.152446	15960.99	mg/L
1333	Fe 234.349	96.63102	1/28/15	19:24	2180295	0.387225	8442.641	mg/L
1333	Mn 259.372	5.134681	1/28/15	19:24	2188219	0.334041	7309.542	mg/L
1333	Cr 267.716	0.110927	1/28/15	19:24	4961.792	0.123139	6.109923	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
13333MS	Y 371.029	64.71707	1/28/15	19:31	2156347	0.107933	2327.418	%
13333MS	Al 394.401	147.4506	1/28/15	19:31	4665372	0.027093	1263.987	mg/L
13333MS	B 249.772	1.057179	1/28/15	19:31	61276.3	0.33829	207.2915	mg/L
13333MS	Ba 233.527	0.612805	1/28/15	19:31	24889.08	0.406442	101.1597	mg/L
13333MS	Ba 413.065	0.683592	1/28/15	19:31	71228.02	0.270527	192.6911	mg/L
13333MS	Be 234.861	-0.53489	1/28/15	19:31	-232979	0.24814	578.1128	mg/L
13333MS	Be 313.042	0.009387	1/28/15	19:31	42729.73	0.847712	362.2252	mg/L
13333MS	Fe 238.204	139.8001	1/28/15	19:31	5282040	0.186426	9847.112	mg/L
13333MS	Pb 220.353	0.112656	1/28/15	19:31	269.4043	2.068913	5.57374	mg/L
13333MS	Mn 257.610	6.842133	1/28/15	19:31	3021356	0.18213	5502.797	mg/L
13333MS	Ni 231.604	0.157193	1/28/15	19:31	2939.696	0.297263	8.738623	mg/L
13333MS	Se 196.026	-0.13912	1/28/15	19:31	-47.1505	8.11465	3.826097	mg/L
13333MS	Ag 328.068	-0.01408	1/28/15	19:31	-1067.39	1.753201	18.71355	mg/L
13333MS	Ag 338.289	-0.00233	1/28/15	19:31	-809.553	1.868602	15.12731	mg/L
13333MS	Tl 351.924	0.030684	1/28/15	19:31	150.8244	2.63193	3.969591	mg/L
13333MS	As 193.696	0.11561	1/28/15	19:31	56.498	2.065251	1.166826	mg/L
13333MS	As 197.197	0.115866	1/28/15	19:31	33.94038	3.684301	1.250466	mg/L
13333MS	Ba 230.425	0.568883	1/28/15	19:31	26733.98	0.266318	71.19738	mg/L
13333MS	V 292.402	0.232777	1/28/15	19:31	20206.95	0.427557	86.39616	mg/L
13333MS	Zn 213.857	0.566145	1/28/15	19:31	17761.36	0.4449	79.02025	mg/L
13333MS	Zn 202.548	0.383541	1/28/15	19:31	4850.118	0.714175	34.63831	mg/L
13333MS	Mo 203.845	-0.05358	1/28/15	19:31	71.37613	6.827539	4.873233	mg/L
13333MS	Mo 204.597	-0.04463	1/28/15	19:31	111.8799	2.823802	3.159268	mg/L
13333MS	Cr 205.560	0.112485	1/28/15	19:31	1416.674	0.147477	2.089271	mg/L
13333MS	Mn 260.568	7.109224	1/28/15	19:31	1667380	0.177271	2955.788	mg/L
13333MS	Ni 221.648	-0.34427	1/28/15	19:31	-1369.82	0.956344	13.1002	mg/L
13333MS	Mg 279.077	156.3697	1/28/15	19:31	1574111	0.083704	1317.602	mg/L
13333MS	Sb 206.836	0.079781	1/28/15	19:31	0.195829	1431.626	2.80354	mg/L
13333MS	Sb 217.582	-0.10134	1/28/15	19:31	-141.145	6.073163	8.571957	mg/L
13333MS	Sb 231.146	0.224151	1/28/15	19:31	550.4197	0.900616	4.957166	mg/L
13333MS	Cr 284.325	0.136228	1/28/15	19:31	9405.144	0.797508	75.00676	mg/L
13333MS	Cd 228.802	-0.00013	1/28/15	19:31	39.0719	10.75334	4.201534	mg/L
13333MS	Cd 214.440	0.018212	1/28/15	19:31	854.4326	1.449641	12.38621	mg/L
13333MS	Cd 226.502	0.043684	1/28/15	19:31	1537.936	0.201455	3.098251	mg/L
13333MS	Cu 324.752	0.226674	1/28/15	19:31	69651.54	0.630433	439.1062	mg/L
13333MS	Cu 327.393	0.240357	1/28/15	19:31	27632.05	0.666352	184.1266	mg/L
13333MS	Co 238.892	41.13656	1/28/15	19:31	1281545	0.147679	1892.577	mg/L
13333MS	Fe 239.562	147.3891	1/28/15	19:31	5003410	0.196799	9846.662	mg/L
13333MS	Fe 259.939	147.647	1/28/15	19:30	16932367	0.121063	20498.79	mg/L
13333MS	Fe 234.349	166.2949	1/28/15	19:31	3751824	0.174436	6544.521	mg/L
13333MS	Mn 259.372	6.778681	1/28/15	19:31	2884349	0.183007	5278.56	mg/L
13333MS	Cr 267.716	0.153133	1/28/15	19:31	6824.884	0.419287	28.61583	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1333MSI	Y 371.029	65.67537	1/28/15	19:38	2188277	0.413566	9049.976	%
1333MSI	Al 394.401	149.8041	1/28/15	19:38	4739840	0.369406	17509.23	mg/L
1333MSI	B 249.772	1.094631	1/28/15	19:38	63422.51	0.628093	398.3526	mg/L
1333MSI	Ba 233.527	0.618513	1/28/15	19:38	25119.58	0.446812	112.2374	mg/L
1333MSI	Ba 413.065	0.68796	1/28/15	19:38	71680.76	0.183853	131.787	mg/L
1333MSI	Be 234.861	-0.53849	1/28/15	19:38	-234544	0.079633	186.7741	mg/L
1333MSI	Be 313.042	0.009329	1/28/15	19:38	42490.38	0.656561	278.9753	mg/L
1333MSI	Fe 238.204	140.4178	1/28/15	19:38	5305375	0.144798	7682.064	mg/L
1333MSI	Pb 220.353	0.112974	1/28/15	19:38	270.2998	2.888127	7.806601	mg/L
1333MSI	Mn 257.610	6.867441	1/28/15	19:38	3032530	0.155028	4701.278	mg/L
1333MSI	Ni 231.604	0.158301	1/28/15	19:38	2960.399	0.524477	15.5266	mg/L
1333MSI	Se 196.026	-0.15446	1/28/15	19:38	-52.9664	3.424081	1.813612	mg/L
1333MSI	Ag 328.068	-0.01442	1/28/15	19:38	-1130.92	7.738899	87.52098	mg/L
1333MSI	Ag 338.289	-0.00315	1/28/15	19:38	-917.664	2.395859	21.98594	mg/L
1333MSI	Tl 351.924	0.030652	1/28/15	19:38	150.6798	4.686575	7.061722	mg/L
1333MSI	As 193.696	0.109445	1/28/15	19:38	53.5552	9.90483	5.304552	mg/L
1333MSI	As 197.197	0.122794	1/28/15	19:38	35.56086	13.69319	4.869418	mg/L
1333MSI	Ba 230.425	0.574657	1/28/15	19:38	26996.47	0.481441	129.972	mg/L
1333MSI	V 292.402	0.237404	1/28/15	19:38	20616.28	0.454058	93.60992	mg/L
1333MSI	Zn 213.857	0.569043	1/28/15	19:38	17858.16	0.290047	51.79702	mg/L
1333MSI	Zn 202.548	0.384318	1/28/15	19:38	4861.355	0.874221	42.49899	mg/L
1333MSI	Mo 203.845	-0.05319	1/28/15	19:38	72.4399	4.18705	3.033095	mg/L
1333MSI	Mo 204.597	-0.04444	1/28/15	19:38	112.5086	3.825894	4.304459	mg/L
1333MSI	Cr 205.560	0.114741	1/28/15	19:38	1444.16	0.258758	3.736882	mg/L
1333MSI	Mn 260.568	7.137617	1/28/15	19:38	1674040	0.176312	2951.526	mg/L
1333MSI	Ni 221.648	-0.39085	1/28/15	19:38	-1553.78	0.940663	14.61588	mg/L
1333MSI	Mg 279.077	156.839	1/28/15	19:38	1578831	0.212786	3359.527	mg/L
1333MSI	Sb 206.836	0.076376	1/28/15	19:38	-4.43144	111.7262	4.951076	mg/L
1333MSI	Sb 217.582	-0.09976	1/28/15	19:38	-139.203	4.79088	6.669039	mg/L
1333MSI	Sb 231.146	0.222532	1/28/15	19:38	546.2827	1.614405	8.819217	mg/L
1333MSI	Cr 284.325	0.137732	1/28/15	19:38	9506.965	0.955697	90.85774	mg/L
1333MSI	Cd 228.802	-4.32E-05	1/28/15	19:38	41.32834	9.837143	4.065528	mg/L
1333MSI	Cd 214.440	0.018279	1/28/15	19:38	857.4687	0.301387	2.5843	mg/L
1333MSI	Cd 226.502	0.044254	1/28/15	19:38	1557.282	0.135334	2.107531	mg/L
1333MSI	Cu 324.752	0.227055	1/28/15	19:38	69767.91	0.503467	351.2582	mg/L
1333MSI	Cu 327.393	0.241397	1/28/15	19:38	27753.62	0.495816	137.6068	mg/L
1333MSI	Co 238.892	41.54888	1/28/15	19:38	1294388	0.16237	2101.703	mg/L
1333MSI	Fe 239.562	148.5344	1/28/15	19:38	5042285	0.164334	8286.209	mg/L
1333MSI	Fe 259.939	149.188	1/28/15	19:37	17109076	0.083615	14305.78	mg/L
1333MSI	Fe 234.349	167.6408	1/28/15	19:38	3782185	0.142417	5386.457	mg/L
1333MSI	Mn 259.372	6.812187	1/28/15	19:38	2898537	0.162995	4724.465	mg/L
1333MSI	Cr 267.716	0.154987	1/28/15	19:38	6906.714	0.154971	10.70344	mg/L



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Metals

- Raw Sample Data

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1334	Y 371.029	67.04911	1/28/15	19:53	2234050	0.398466	8901.937	%
1334	Al 394.401	231.4612	1/28/15	19:54	7323657	0.342949	25116.44	mg/L
1334	B 249.772	1.28101	1/28/15	19:54	74103.27	0.062837	46.56456	mg/L
1334	Ba 233.527	0.904482	1/28/15	19:54	36666.43	0.083661	30.67555	mg/L
1334	Ba 413.065	1.00869	1/28/15	19:54	104922.7	0.370777	389.0296	mg/L
1334	Be 234.861	-0.73831	1/28/15	19:54	-321358	0.270284	868.5798	mg/L
1334	Be 313.042	0.01403	1/28/15	19:54	61971.55	0.401086	248.5595	mg/L
1334	Fe 238.204	177.8726	1/28/15	19:54	6720328	0.193618	13011.78	mg/L
1334	Pb 220.353	0.161982	1/28/15	19:54	408.6201	0.761756	3.112689	mg/L
1334	Mn 257.610	9.277448	1/28/15	19:54	4096529	0.204451	8375.403	mg/L
1334	Ni 231.604	0.229047	1/28/15	19:54	4282.293	0.477797	20.46069	mg/L
1334	Se 196.026	-0.17099	1/28/15	19:54	-59.2337	8.011997	4.745806	mg/L
1334	Ag 328.068	-0.01821	1/28/15	19:54	-1824.31	2.67611	48.82062	mg/L
1334	Ag 338.289	-0.00643	1/28/15	19:54	-1347.81	4.713405	63.52786	mg/L
1334	Tl 351.924	0.025567	1/28/15	19:54	128.0384	0.60824	0.778781	mg/L
1334	As 193.696	0.122249	1/28/15	19:54	59.667	5.396221	3.219764	mg/L
1334	As 197.197	0.135905	1/28/15	19:54	38.62777	5.240216	2.024178	mg/L
1334	Ba 230.425	0.84719	1/28/15	19:54	39384.3	0.101802	40.09388	mg/L
1334	V 292.402	0.344978	1/28/15	19:54	30133.57	0.084414	25.43708	mg/L
1334	Zn 213.857	0.820312	1/28/15	19:54	26249.52	0.117041	30.72273	mg/L
1334	Zn 202.548	0.573485	1/28/15	19:54	7595.163	0.392584	29.81739	mg/L
1334	Mo 203.845	-0.05565	1/28/15	19:54	65.69511	14.60538	9.595022	mg/L
1334	Mo 204.597	-0.04298	1/28/15	19:54	117.3012	4.434239	5.201414	mg/L
1334	Cr 205.560	0.223845	1/28/15	19:54	2773.178	0.31169	8.643726	mg/L
1334	Mn 260.568	9.68998	1/28/15	19:54	2272711	0.196225	4459.618	mg/L
1334	Ni 221.648	-0.31327	1/28/15	19:54	-1247.42	0.995754	12.42123	mg/L
1334	Mg 279.077	197.4965	1/28/15	19:54	1987731	0.202246	4020.101	mg/L
1334	Sb 206.836	0.081947	1/28/15	19:54	3.139267	271.3966	8.519863	mg/L
1334	Sb 217.582	-0.1001	1/28/15	19:54	-139.616	3.298965	4.605894	mg/L
1334	Sb 231.146	0.32077	1/28/15	19:54	797.3142	0.33604	2.679297	mg/L
1334	Cr 284.325	0.263084	1/28/15	19:54	17994.7	0.240636	43.3018	mg/L
1334	Cd 228.802	0.000166	1/28/15	19:54	46.86635	10.56879	4.953204	mg/L
1334	Cd 214.440	0.025514	1/28/15	19:54	1183.432	0.281105	3.326686	mg/L
1334	Cd 226.502	0.059597	1/28/15	19:54	2078.157	0.237811	4.942081	mg/L
1334	Cu 324.752	0.274969	1/28/15	19:54	84403.01	0.559334	472.0945	mg/L
1334	Cu 327.393	0.302892	1/28/15	19:54	34943.55	0.491488	171.7435	mg/L
1334	Co 238.892	56.35726	1/28/15	19:54	1755623	0.247187	4339.674	mg/L
1334	Fe 239.562	189.7008	1/28/15	19:53	6439588	0.525116	33815.31	mg/L
1334	Fe 259.939	191.2116	1/28/15	19:53	21927852	0.45478	99723.53	mg/L
1334	Fe 234.349	223.588	1/28/15	19:54	5044285	0.221287	11162.36	mg/L
1334	Mn 259.372	9.214643	1/28/15	19:54	3915826	0.207551	8127.352	mg/L
1334	Cr 267.716	0.285336	1/28/15	19:54	12660.74	0.216082	27.35752	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1335	Y 371.029	69.66205	1/28/15	19:59	2321112	0.295916	6868.547	%
1335	Al 394.401	112.9399	1/28/15	19:59	3573374	0.301489	10773.33	mg/L
1335	B 249.772	1.031666	1/28/15	19:59	59814.21	0.24139	144.3857	mg/L
1335	Ba 233.527	1.205634	1/28/15	19:59	48826.39	0.384176	187.579	mg/L
1335	Ba 413.065	1.353093	1/28/15	19:59	140618.2	0.225941	317.7141	mg/L
1335	Be 234.861	-0.5135	1/28/15	19:59	-223688	0.392993	879.079	mg/L
1335	Be 313.042	0.011605	1/28/15	19:59	51924.33	0.219225	113.8311	mg/L
1335	Fe 238.204	138.1236	1/28/15	19:59	5218704	0.322088	16808.84	mg/L
1335	Pb 220.353	0.340622	1/28/15	20:00	912.8111	0.401511	3.665035	mg/L
1335	Mn 257.610	13.79808	1/28/15	19:59	6092353	0.25329	15431.34	mg/L
1335	Ni 231.604	0.14642	1/28/15	20:00	2738.399	0.22314	6.110475	mg/L
1335	Se 196.026	-0.086	1/28/15	20:00	-27.0134	7.635351	2.062569	mg/L
1335	Ag 328.068	-0.01379	1/28/15	19:59	-1014.64	6.115017	62.04542	mg/L
1335	Ag 338.289	-0.00841	1/28/15	19:59	-1606.75	2.484148	39.91401	mg/L
1335	Tl 351.924	0.009239	1/28/15	20:00	55.32917	12.24966	6.777636	mg/L
1335	As 193.696	0.075029	1/28/15	20:00	37.12756	5.236139	1.944051	mg/L
1335	As 197.197	0.084386	1/28/15	20:00	26.57715	5.041554	1.339902	mg/L
1335	Ba 230.425	1.13313	1/28/15	19:59	52381.58	0.391747	205.2031	mg/L
1335	V 292.402	0.262763	1/28/15	19:59	22859.83	0.362785	82.93201	mg/L
1335	Zn 213.857	0.576456	1/28/15	19:59	18105.72	0.35605	64.46547	mg/L
1335	Zn 202.548	0.473736	1/28/15	19:59	6153.607	0.51851	31.9071	mg/L
1335	Mo 203.845	-0.06807	1/28/15	20:00	31.59746	9.100397	2.875494	mg/L
1335	Mo 204.597	-0.0588	1/28/15	20:00	65.4118	4.37006	2.858534	mg/L
1335	Cr 205.560	0.115309	1/28/15	20:00	1451.078	0.230619	3.346457	mg/L
1335	Mn 260.568	14.46875	1/28/15	19:59	3393601	0.236574	8028.371	mg/L
1335	Ni 221.648	-0.26643	1/28/15	19:59	-1062.41	0.538165	5.717539	mg/L
1335	Mg 279.077	36.83063	1/28/15	19:59	371883.8	0.350353	1302.905	mg/L
1335	Sb 206.836	0.080362	1/28/15	20:00	0.985619	534.9392	5.272465	mg/L
1335	Sb 217.582	-0.0449	1/28/15	20:00	-71.7768	8.849683	6.352022	mg/L
1335	Sb 231.146	0.393512	1/28/15	20:00	983.1919	0.833814	8.197992	mg/L
1335	Cr 284.325	0.136867	1/28/15	19:59	9448.401	0.301471	28.48419	mg/L
1335	Cd 228.802	0.000197	1/28/15	20:00	47.66836	3.452937	1.645958	mg/L
1335	Cd 214.440	0.017182	1/28/15	20:00	808.0715	0.214358	1.732162	mg/L
1335	Cd 226.502	0.037484	1/28/15	19:59	1327.45	0.750235	9.958992	mg/L
1335	Cu 324.752	0.170957	1/28/15	19:59	52633.15	0.251139	132.1822	mg/L
1335	Cu 327.393	0.1951	1/28/15	19:59	22340.56	0.28163	62.9177	mg/L
1335	Co 238.892	39.13827	1/28/15	19:59	1219305	0.325465	3968.412	mg/L
1335	Fe 239.562	142.9237	1/28/15	19:59	4851840	0.435957	21151.96	mg/L
1335	Fe 259.939	145.7039	1/28/15	19:59	16709552	0.480913	80358.39	mg/L
1335	Fe 234.349	160.2347	1/28/15	19:59	3615114	0.296919	10733.94	mg/L
1335	Mn 259.372	13.49536	1/28/15	19:59	5728437	0.246076	14096.33	mg/L
1335	Cr 267.716	0.150739	1/28/15	19:59	6719.2	0.285656	19.19379	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1336	Y 371.029	71.0471	1/28/15	20:05	2367261	0.284318	6730.557	%
1336	Al 394.401	120.6935	1/28/15	20:05	3818715	0.093358	3565.091	mg/L
1336	B 249.772	1.064159	1/28/15	20:05	61676.25	0.444466	274.13	mg/L
1336	Ba 233.527	1.714118	1/28/15	20:05	69358	0.384191	266.4671	mg/L
1336	Ba 413.065	1.943771	1/28/15	20:05	201838.7	0.362652	731.9711	mg/L
1336	Be 234.861	-0.55999	1/28/15	20:05	-243886	0.187578	457.4748	mg/L
1336	Be 313.042	0.012015	1/28/15	20:05	53619.96	0.399481	214.2015	mg/L
1336	Fe 238.204	147.0293	1/28/15	20:05	5555142	0.109904	6105.337	mg/L
1336	Pb 220.353	0.201581	1/28/15	20:05	520.3841	0.898616	4.676254	mg/L
1336	Mn 257.610	30.4569	1/28/15	20:05	13447098	0.122397	16458.83	mg/L
1336	Ni 231.604	0.152374	1/28/15	20:05	2849.662	0.315719	8.99692	mg/L
1336	Se 196.026	-0.08759	1/28/15	20:05	-27.6171	21.36434	5.90022	mg/L
1336	Ag 328.068	-0.01215	1/28/15	20:05	-715.15	6.248284	44.68463	mg/L
1336	Ag 338.289	-0.00911	1/28/15	20:05	-1699.1	2.295852	39.00892	mg/L
1336	Tl 351.924	0.004485	1/28/15	20:05	34.16074	8.307941	2.838054	mg/L
1336	As 193.696	0.079125	1/28/15	20:05	39.08293	6.914239	2.702287	mg/L
1336	As 197.197	0.088354	1/28/15	20:05	27.50521	9.991171	2.748092	mg/L
1336	Ba 230.425	1.61793	1/28/15	20:05	74417.95	0.378954	282.0097	mg/L
1336	V 292.402	0.275922	1/28/15	20:05	24024.04	0.42082	101.098	mg/L
1336	Zn 213.857	0.503763	1/28/15	20:05	15678.06	0.443948	69.6025	mg/L
1336	Zn 202.548	0.411718	1/28/15	20:05	5257.33	0.620696	32.63206	mg/L
1336	Mo 203.845	-0.06194	1/28/15	20:05	48.43852	10.30512	4.991647	mg/L
1336	Mo 204.597	-0.05234	1/28/15	20:05	86.59217	6.166433	5.339648	mg/L
1336	Cr 205.560	0.120211	1/28/15	20:05	1510.788	0.789473	11.92727	mg/L
1336	Mn 260.568	33.34176	1/28/15	20:05	7820374	0.129066	10093.41	mg/L
1336	Ni 221.648	-0.32598	1/28/15	20:05	-1297.62	0.407588	5.288943	mg/L
1336	Mg 279.077	35.35929	1/28/15	20:05	357086.3	0.229002	817.7352	mg/L
1336	Sb 206.836	0.080361	1/28/15	20:05	0.984727	298.327	2.937705	mg/L
1336	Sb 217.582	-0.04795	1/28/15	20:05	-75.5308	6.570593	4.962819	mg/L
1336	Sb 231.146	0.423754	1/28/15	20:05	1060.471	0.063836	0.676967	mg/L
1336	Cr 284.325	0.14144	1/28/15	20:05	9758.038	0.266082	25.96442	mg/L
1336	Cd 228.802	0.000443	1/28/15	20:05	54.17841	8.887022	4.814848	mg/L
1336	Cd 214.440	0.01856	1/28/15	20:05	870.117	0.71066	6.183574	mg/L
1336	Cd 226.502	0.039904	1/28/15	20:05	1409.582	2.199066	30.99764	mg/L
1336	Cu 324.752	0.138145	1/28/15	20:05	42610.97	0.27553	117.4061	mg/L
1336	Cu 327.393	0.164035	1/28/15	20:05	18708.44	0.211608	39.58852	mg/L
1336	Co 238.892	42.62704	1/28/15	20:05	1327969	0.379183	5035.438	mg/L
1336	Fe 239.562	152.3706	1/28/15	20:05	5172494	0.170506	8819.402	mg/L
1336	Fe 259.939	158.0246	1/28/15	20:05	18122345	0.100738	18256.16	mg/L
1336	Fe 234.349	173.3144	1/28/15	20:05	3910176	0.138979	5434.333	mg/L
1336	Mn 259.372	30.17682	1/28/15	20:05	12791982	0.111578	14273.09	mg/L
1336	Cr 267.716	0.163468	1/28/15	20:05	7281.098	0.328001	23.8821	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1337	Y 371.029	70.1108	1/28/15	20:10	2336064	0.245843	5743.05	%
1337	Al 394.401	164.9411	1/28/15	20:10	5218810	0.540945	28230.89	mg/L
1337	B 249.772	1.187265	1/28/15	20:10	68731.08	0.51552	354.3223	mg/L
1337	Ba 233.527	1.254922	1/28/15	20:10	50816.55	0.408939	207.8088	mg/L
1337	Ba 413.065	1.398708	1/28/15	20:10	145345.9	0.518392	753.4621	mg/L
1337	Be 234.861	-0.63022	1/28/15	20:10	-274396	0.318666	874.4053	mg/L
1337	Be 313.042	0.012515	1/28/15	20:10	55693.1	0.395699	220.3768	mg/L
1337	Fe 238.204	162.1336	1/28/15	20:10	6125748	0.296912	18188.08	mg/L
1337	Pb 220.353	0.154813	1/28/15	20:11	388.3852	0.945698	3.672952	mg/L
1337	Mn 257.610	10.36638	1/28/15	20:10	4577284	0.406422	18603.07	mg/L
1337	Ni 231.604	0.171721	1/28/15	20:11	3211.155	0.063347	2.03417	mg/L
1337	Se 196.026	-0.12234	1/28/15	20:11	-40.7884	3.650613	1.489028	mg/L
1337	Ag 328.068	-0.01623	1/28/15	20:10	-1460.88	2.633803	38.47658	mg/L
1337	Ag 338.289	-0.0076	1/28/15	20:10	-1501.07	2.260406	33.93026	mg/L
1337	Tl 351.924	0.002709	1/28/15	20:11	26.25044	2.168235	0.569171	mg/L
1337	As 193.696	0.086854	1/28/15	20:11	42.77209	3.064935	1.310937	mg/L
1337	As 197.197	0.08685	1/28/15	20:11	27.15354	7.792676	2.115987	mg/L
1337	Ba 230.425	1.180128	1/28/15	20:10	54517.83	0.351244	191.4904	mg/L
1337	V 292.402	0.311596	1/28/15	20:10	27180.16	0.342521	93.09788	mg/L
1337	Zn 213.857	0.53859	1/28/15	20:10	16841.15	0.485079	81.69291	mg/L
1337	Zn 202.548	0.449215	1/28/15	20:10	5799.233	1.177186	68.26773	mg/L
1337	Mo 203.845	-0.06569	1/28/15	20:11	38.12866	7.680987	2.928658	mg/L
1337	Mo 204.597	-0.0532	1/28/15	20:11	83.76294	2.593815	2.172656	mg/L
1337	Cr 205.560	0.145824	1/28/15	20:11	1822.782	0.211754	3.85982	mg/L
1337	Mn 260.568	10.81409	1/28/15	20:10	2536377	0.421703	10695.98	mg/L
1337	Ni 221.648	-0.34459	1/28/15	20:10	-1371.09	0.323217	4.431582	mg/L
1337	Mg 279.077	24.8056	1/28/15	20:10	250945.8	0.392015	983.7463	mg/L
1337	Sb 206.836	0.081163	1/28/15	20:11	2.07449	148.0031	3.07031	mg/L
1337	Sb 217.582	-0.05283	1/28/15	20:11	-81.5322	0.737174	0.601034	mg/L
1337	Sb 231.146	0.35553	1/28/15	20:11	886.1356	0.222453	1.971231	mg/L
1337	Cr 284.325	0.171475	1/28/15	20:10	11791.76	0.674602	79.54743	mg/L
1337	Cd 228.802	-0.00111	1/28/15	20:11	13.16881	10.80705	1.423161	mg/L
1337	Cd 214.440	0.019293	1/28/15	20:11	903.1399	0.801476	7.238449	mg/L
1337	Cd 226.502	0.042856	1/28/15	20:10	1509.808	1.766684	26.67354	mg/L
1337	Cu 324.752	0.176268	1/28/15	20:10	54255.4	0.451976	245.2214	mg/L
1337	Cu 327.393	0.205596	1/28/15	20:10	23567.73	0.33272	78.4145	mg/L
1337	Co 238.892	47.77519	1/28/15	20:10	1488318	0.395062	5879.771	mg/L
1337	Fe 239.562	168.3675	1/28/15	20:10	5715475	0.194383	11109.89	mg/L
1337	Fe 259.939	171.9332	1/28/15	20:10	19717225	0.234266	46190.71	mg/L
1337	Fe 234.349	193.4416	1/28/15	20:10	4364219	0.37019	16155.9	mg/L
1337	Mn 259.372	10.19187	1/28/15	20:10	4329621	0.407616	17648.22	mg/L
1337	Cr 267.716	0.184404	1/28/15	20:10	8205.267	0.492606	40.41967	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1338	Y 371.029	69.96714	1/28/15	20:16	2331277	0.217071	5060.515	%
1338	Al 394.401	129.2149	1/28/15	20:16	4088352	0.14664	5995.155	mg/L
1338	B 249.772	0.988735	1/28/15	20:16	57353.97	0.608725	349.1277	mg/L
1338	Ba 233.527	0.574168	1/28/15	20:16	23329.02	0.76264	177.9164	mg/L
1338	Ba 413.065	0.632926	1/28/15	20:16	65976.8	0.639829	422.1388	mg/L
1338	Be 234.861	-0.47586	1/28/15	20:16	-207332	0.394011	816.9137	mg/L
1338	Be 313.042	0.008109	1/28/15	20:16	37431.71	0.359515	134.5727	mg/L
1338	Fe 238.204	129.715	1/28/15	20:16	4901048	0.344821	16899.82	mg/L
1338	Pb 220.353	0.086615	1/28/15	20:16	195.9058	2.952942	5.784986	mg/L
1338	Mn 257.610	3.943528	1/28/15	20:16	1741644	0.305787	5325.715	mg/L
1338	Ni 231.604	0.120149	1/28/15	20:16	2247.523	0.851396	19.13532	mg/L
1338	Se 196.026	-0.08837	1/28/15	20:16	-27.9121	8.586293	2.396616	mg/L
1338	Ag 328.068	-0.01541	1/28/15	20:16	-1311.62	3.370995	44.21479	mg/L
1338	Ag 338.289	-0.00546	1/28/15	20:16	-1219.4	1.623898	19.80187	mg/L
1338	Tl 351.924	0.002122	1/28/15	20:16	23.6397	40.50228	9.574618	mg/L
1338	As 193.696	0.079676	1/28/15	20:16	39.34581	5.877624	2.312599	mg/L
1338	As 197.197	0.064307	1/28/15	20:16	21.88068	1.366444	0.298987	mg/L
1338	Ba 230.425	0.531535	1/28/15	20:16	25036.37	0.668342	167.3285	mg/L
1338	V 292.402	0.204055	1/28/15	20:16	17665.79	0.463009	81.79413	mg/L
1338	Zn 213.857	0.439437	1/28/15	20:16	13529.83	1.03882	140.5507	mg/L
1338	Zn 202.548	0.373201	1/28/15	20:16	4700.694	1.666396	78.33218	mg/L
1338	Mo 203.845	-0.0662	1/28/15	20:16	36.73109	7.66856	2.816746	mg/L
1338	Mo 204.597	-0.05839	1/28/15	20:16	66.76111	4.639402	3.097317	mg/L
1338	Cr 205.560	0.09448	1/28/15	20:16	1197.354	0.419716	5.025486	mg/L
1338	Mn 260.568	4.062372	1/28/15	20:16	952723.4	0.299392	2852.375	mg/L
1338	Ni 221.648	-0.34532	1/28/15	20:16	-1373.97	1.169796	16.0726	mg/L
1338	Mg 279.077	17.22916	1/28/15	20:16	174748.1	0.452784	791.2317	mg/L
1338	Sb 206.836	0.084361	1/28/15	20:16	6.42025	55.54537	3.566152	mg/L
1338	Sb 217.582	-0.03009	1/28/15	20:16	-53.5885	9.244586	4.954031	mg/L
1338	Sb 231.146	0.182954	1/28/15	20:16	445.1494	1.135952	5.056684	mg/L
1338	Cr 284.325	0.112871	1/28/15	20:16	7823.613	0.870421	68.09834	mg/L
1338	Cd 228.802	-0.00119	1/28/15	20:16	11.02207	19.07071	2.101987	mg/L
1338	Cd 214.440	0.013732	1/28/15	20:16	652.6283	1.423327	9.289037	mg/L
1338	Cd 226.502	0.030642	1/28/15	20:16	1095.14	0.706231	7.734221	mg/L
1338	Cu 324.752	0.144335	1/28/15	20:16	44501.65	0.248497	110.5852	mg/L
1338	Cu 327.393	0.16665	1/28/15	20:16	19014.3	0.358732	68.21038	mg/L
1338	Co 238.892	36.01051	1/28/15	20:16	1121885	0.289614	3249.133	mg/L
1338	Fe 239.562	132.7332	1/28/15	20:16	4505945	0.294854	13285.98	mg/L
1338	Fe 259.939	136.2561	1/28/15	20:16	15626195	0.283584	44313.37	mg/L
1338	Fe 234.349	148.1742	1/28/15	20:16	3343044	0.312213	10437.4	mg/L
1338	Mn 259.372	3.923945	1/28/15	20:16	1675549	0.300595	5036.621	mg/L
1338	Cr 267.716	0.119241	1/28/15	20:16	5328.767	0.669258	35.66318	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1339	Y 371.029	63.99995	1/28/15	20:22	2132453	0.212785	4537.54	%
1339	Al 394.401	46.94192	1/28/15	20:22	1485046	0.08712	1293.772	mg/L
1339	B 249.772	0.748285	1/28/15	20:22	43574.64	0.264981	115.4646	mg/L
1339	Ba 233.527	0.369322	1/28/15	20:22	15057.72	0.228323	34.38032	mg/L
1339	Ba 413.065	0.416494	1/28/15	20:22	43544.75	0.379785	165.3765	mg/L
1339	Be 234.861	-0.22077	1/28/15	20:22	-96509.3	0.107732	103.971	mg/L
1339	Be 313.042	0.004206	1/28/15	20:22	21258.57	0.401191	85.28742	mg/L
1339	Fe 238.204	66.492	1/28/15	20:22	2512633	0.134975	3391.436	mg/L
1339	Pb 220.353	0.082423	1/28/15	20:22	184.0747	0.756253	1.39207	mg/L
1339	Mn 257.610	4.233084	1/28/15	20:22	1869481	0.09068	1695.239	mg/L
1339	Ni 231.604	0.091299	1/28/15	20:22	1708.459	0.447757	7.64974	mg/L
1339	Se 196.026	-0.09973	1/28/15	20:22	-32.2175	8.353725	2.691362	mg/L
1339	Ag 328.068	-0.01065	1/28/15	20:22	-440.377	9.89982	43.59649	mg/L
1339	Ag 338.289	0.011182	1/28/15	20:22	961.6578	4.320078	41.54436	mg/L
1339	Tl 351.924	0.05514	1/28/15	20:22	259.7244	3.347258	8.693647	mg/L
1339	As 193.696	0.092182	1/28/15	20:22	45.31504	8.428771	3.819501	mg/L
1339	As 197.197	0.045066	1/28/15	20:22	17.38014	4.041549	0.702427	mg/L
1339	Ba 230.425	0.333028	1/28/15	20:22	16013.33	0.612828	98.13408	mg/L
1339	V 292.402	0.09322	1/28/15	20:22	7860.032	0.278688	21.90497	mg/L
1339	Zn 213.857	0.302685	1/28/15	20:22	8962.897	0.392923	35.21729	mg/L
1339	Zn 202.548	0.045421	1/28/15	20:22	-36.3343	106.7867	38.80017	mg/L
1339	Mo 203.845	-0.07058	1/28/15	20:22	24.71903	24.20325	5.982808	mg/L
1339	Mo 204.597	-0.06452	1/28/15	20:22	46.63111	6.724229	3.135583	mg/L
1339	Cr 205.560	0.046604	1/28/15	20:22	614.1538	0.817699	5.021932	mg/L
1339	Mn 260.568	4.372548	1/28/15	20:22	1025477	0.118523	1215.427	mg/L
1339	Ni 221.648	-0.36185	1/28/15	20:22	-1439.28	0.305944	4.403389	mg/L
1339	Mg 279.077	666.2674	1/28/15	20:22	6702250	0.122956	8240.802	mg/L
1339	Sb 206.836	0.079297	1/28/15	20:22	-0.46188	1024.321	4.731152	mg/L
1339	Sb 217.582	-0.11005	1/28/15	20:22	-151.846	1.441498	2.18886	mg/L
1339	Sb 231.146	0.123444	1/28/15	20:22	293.0817	1.219632	3.574518	mg/L
1339	Cr 284.325	0.062997	1/28/15	20:22	4446.586	1.249086	55.54169	mg/L
1339	Cd 228.802	-0.00107	1/28/15	20:22	14.13882	24.12281	3.410682	mg/L
1339	Cd 214.440	0.006826	1/28/15	20:22	341.4971	1.08226	3.695888	mg/L
1339	Cd 226.502	0.020337	1/28/15	20:22	745.2921	0.497191	3.705527	mg/L
1339	Cu 324.752	0.129473	1/28/15	20:22	39962.19	0.260933	104.2746	mg/L
1339	Cu 327.393	0.120133	1/28/15	20:22	13575.53	0.064675	8.779988	mg/L
1339	Co 238.892	17.15422	1/28/15	20:22	534569.9	0.158831	849.0624	mg/L
1339	Fe 239.562	66.36301	1/28/15	20:22	2253153	0.128519	2895.729	mg/L
1339	Fe 259.939	70.42621	1/28/15	20:22	8077582	0.110933	8960.684	mg/L
1339	Fe 234.349	71.79406	1/28/15	20:22	1620005	0.14364	2326.978	mg/L
1339	Mn 259.372	4.136074	1/28/15	20:22	1765372	0.111424	1967.054	mg/L
1339	Cr 267.716	0.075665	1/28/15	20:22	3405.197	0.543841	18.51886	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1342	Y 371.029	71.28356	1/28/15	20:41	2375139	0.061218	1454.011	%
1342	Al 394.401	156.6874	1/28/15	20:42	4957643	0.135939	6739.378	mg/L
1342	B 249.772	1.197195	1/28/15	20:42	69300.1	0.314837	218.1826	mg/L
1342	Ba 233.527	1.683385	1/28/15	20:42	68117.03	0.23237	158.2834	mg/L
1342	Ba 413.065	1.893261	1/28/15	20:42	196603.6	0.035	68.81058	mg/L
1342	Be 234.861	-0.64462	1/28/15	20:42	-280653	0.316251	887.5665	mg/L
1342	Be 313.042	0.015882	1/28/15	20:42	69646.35	0.59967	417.648	mg/L
1342	Fe 238.204	161.2453	1/28/15	20:42	6092187	0.20825	12687	mg/L
1342	Pb 220.353	0.246914	1/28/15	20:42	648.3308	0.259741	1.683981	mg/L
1342	Mn 257.610	11.1813	1/28/15	20:42	4937066	0.125891	6215.306	mg/L
1342	Ni 231.604	0.18578	1/28/15	20:42	3473.849	0.325061	11.29213	mg/L
1342	Se 196.026	-0.13021	1/28/15	20:42	-43.775	4.891363	2.141194	mg/L
1342	Ag 328.068	-0.01668	1/28/15	20:42	-1544.34	1.827079	28.21634	mg/L
1342	Ag 338.289	-0.01063	1/28/15	20:42	-1898.14	1.96668	37.33033	mg/L
1342	Tl 351.924	0.017881	1/28/15	20:42	93.81219	11.57677	10.86042	mg/L
1342	As 193.696	0.092344	1/28/15	20:42	45.39233	1.428301	0.648339	mg/L
1342	As 197.197	0.090265	1/28/15	20:42	27.95237	5.097472	1.424864	mg/L
1342	Ba 230.425	1.593752	1/28/15	20:42	73318.92	0.269386	197.5111	mg/L
1342	V 292.402	0.366197	1/28/15	20:42	32010.85	0.377122	120.7201	mg/L
1342	Zn 213.857	0.689728	1/28/15	20:42	21888.53	0.296442	64.88683	mg/L
1342	Zn 202.548	0.528666	1/28/15	20:42	6947.449	0.315384	21.91112	mg/L
1342	Mo 203.845	-0.06524	1/28/15	20:42	39.37502	3.814808	1.502081	mg/L
1342	Mo 204.597	-0.05403	1/28/15	20:42	81.06124	4.368232	3.540943	mg/L
1342	Cr 205.560	0.150626	1/28/15	20:42	1881.281	0.118565	2.23054	mg/L
1342	Mn 260.568	11.71698	1/28/15	20:42	2748155	0.110473	3035.974	mg/L
1342	Ni 221.648	-0.38382	1/28/15	20:42	-1526.03	0.816757	12.46391	mg/L
1342	Mg 279.077	68.69945	1/28/15	20:42	692394.6	0.105351	729.4451	mg/L
1342	Sb 206.836	0.079511	1/28/15	20:42	-0.17085	1390.066	2.374976	mg/L
1342	Sb 217.582	-0.07056	1/28/15	20:42	-103.315	2.666351	2.754753	mg/L
1342	Sb 231.146	0.433261	1/28/15	20:42	1084.764	0.330723	3.587565	mg/L
1342	Cr 284.325	0.176612	1/28/15	20:42	12139.56	0.784574	95.24381	mg/L
1342	Cd 228.802	0.000341	1/28/15	20:42	51.473	4.423389	2.276851	mg/L
1342	Cd 214.440	0.022376	1/28/15	20:42	1042.039	0.361332	3.765214	mg/L
1342	Cd 226.502	0.050158	1/28/15	20:42	1757.714	0.193718	3.405008	mg/L
1342	Cu 324.752	0.234503	1/28/15	20:42	72042.79	0.339652	244.6947	mg/L
1342	Cu 327.393	0.263965	1/28/15	20:42	30392.3	0.290096	88.1667	mg/L
1342	Co 238.892	49.15181	1/28/15	20:42	1531196	0.102658	1571.895	mg/L
1342	Fe 239.562	169.6573	1/28/15	20:41	5759253	0.217842	12546.09	mg/L
1342	Fe 259.939	173.2881	1/28/15	20:41	19872590	0.157108	31221.48	mg/L
1342	Fe 234.349	197.0119	1/28/15	20:42	4444762	0.135676	6030.478	mg/L
1342	Mn 259.372	11.0461	1/28/15	20:42	4691331	0.111991	5253.885	mg/L
1342	Cr 267.716	0.197376	1/28/15	20:42	8777.902	0.235114	20.63809	mg/L



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Mr. Chris Parks
Creek Run
P.O. Box 114
Montpelier, IN 47359

February 6, 2015

ENVision Project Number: 2015-216A
Client Project Name: Edinburgh, 11940 N US 31

Dear Mr. Parks,

Please find the attached analytical report for the samples received January 29, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data. Metals analyses are not included in the NELAC certification.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in cursive script that reads "Cheryl A. Crum".

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

PA DEP Lab Code: 68-04846 NELAP Cert:004





Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-216

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 020215VS

Client Sample ID: B-6 (18-20) **Sample Collection Date/Time:** 1/28/15 16:30
Envision Sample Number: 15-1561 **Sample Received Date/Time:** 1/29/15 13:40
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.104	0.104	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.052	0.052	
2-Butanone (MEK)	< 0.010	0.010	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.052	0.052	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00029	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.104	0.104	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.010	0.010	
2-Hexanone	< 0.010	0.010	
Iodomethane	< 0.010	0.010	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.010	0.010	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.010	0.010	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.010	0.010	
Dibromofluoromethane (surrogate)	104%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	2-2-15/01:30		
Analyst Initials	tjg		

Percent Solids: 96%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENvision Project Number: 2015-216
Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 013115PS

Client Sample ID: B-6 (18-20) **Sample Collection Date/Time:** 1/28/15 16:30
Envision Sample Number: 15-1561 **Sample Received Date/Time:** 1/29/15 13:40
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.34	0.34	
Acenaphthylene	< 0.34	0.34	
Anthracene	< 0.34	0.34	
Benzo(a)anthracene	< 0.34	0.34	
Benzo(a)pyrene	< 0.070	0.070	
Benzo(b)fluoranthene	< 0.34	0.34	
Benzo(g,h,i)perylene	< 0.34	0.34	
Benzo(k)fluoranthene	< 0.34	0.34	
Chrysene	< 0.34	0.34	
Dibenzo(a,h)anthracene	< 0.070	0.070	
Fluoranthene	< 0.34	0.34	
Fluorene	< 0.34	0.34	
Indeno(1,2,3-cd)pyrene	< 0.34	0.34	
1-methylnaphthalene	< 0.34	0.34	
2-methylnaphthalene	< 0.34	0.34	
Naphthalene	< 0.070	0.070	
Phenanthrene	< 0.31	0.31	
Pyrene	< 0.34	0.34	
Nitrobenzene-d14 (surrogate)	54%		
2-Fluorobiphenyl (surrogate)	54%		
p-Terphenyl-d14 (surrogate)	93%		
Analysis Date/Time:	2-2-15/03:55		
Analyst Initials:	ajg		
Date Extracted:	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		

Percent Solids 96%

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-216

Analytical Method: EPA 6010B
Prep Method: 3050B

Client Sample ID: B-6 (18-20) **Sample Collection Date/Time:** 1/28/15 16:30
Envision Sample Number: 15-1561 **Sample Received Date/Time:** 1/29/15 13:40
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Lead	< 2	2	
Percent Solids	96%		

Analysis Date/Time: 2-2-15/17:25
Analyst Initials: gjd
Date Digested: 2/1/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 020215icp

All results reported on dry weight basis.



Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-216

Client Sample ID: B-6 (18-20) **Sample Collection Date/Time:** 1/28/15 16:30
Envision Sample Number: 15-1561 **Sample Received Date/Time:** 1/29/15 13:40
Sample Matrix: soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	4.0%		EPA 1684
Percent Solids	96.0%		EPA 1684
Analysis Date:	2/4/15		
Analyst Initials	jc		



Analytical Report

Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-216
Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 020215CVW

Client Sample ID: WT-1 **Sample Collection Date/Time:** 1/28/15 16:40
Envision Sample Number: 15-1567 **Sample Received Date/Time:** 1/29/15 13:40
Sample Matrix: water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	



Analytical Report

8260 continued...

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	108%		
1,2-Dichloroethane-d4 (surrogate)	102%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	2-3-15/05:24		
Analyst Initials	tjg		



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Analytical Report

Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-216

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 012915PW

Client Sample ID: WT-1 **Sample Collection Date/Time:** 1/28/15 16:40
Envision Sample Number: 15-1567 **Sample Received Date/Time:** 1/29/15 13:40
Sample Matrix: water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	

Nitrobenzene-d5 (surrogate) 107%
 2-Fluorobiphenyl (surrogate) 47%
 p-Terphenyl-d14 (surrogate) 73%
Analysis Date/Time: 1-30-15/15:48
Analyst Initials: ajg
Date Extracted: 1/28/2015
Initial Sample Volume: 40ml
Final Volume: 2.0ml



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Analytical Report

Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVISSION Project Number: 2015-216

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: WT-1
ENVISSION Sample Number: 15-1567
Sample Matrix: water

Sample Collection Date/Time: 1/28/15 16:40
Sample Received Date/Time: 1/29/15 13:40

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Lead	< 10	10	

ICP Analysis Date/Time: 2-2-15/18:00
Analyst Initials: gjd
Date Digested: 2/1/2015
Initial Sample Volume: 1.0 g
Final Volume: 50 mL
Analytical Batch: 020215icp



Analytical Report

Client Name: CREEK RUN, LLC
Project ID: EDINBURGH 11940 N US 31
Client Project Manager: CHRIS PARKS
ENVision Project Number: 2015-216
Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 020215CVW

Client Sample ID: TB-1 **Sample Collection Date/Time:** 1/28/15 17:00
Envision Sample Number: 15-1571 **Sample Received Date/Time:** 1/29/15 13:40
Sample Matrix: water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	



Analytical Report

8260 continued...

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.4	1.4	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	106%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	2-3-15/07:07		
Analyst Initials	tjg		



EPA 8270 PAH Quality Control Data

ENVision Batch Number: 012815PS4

Method Blank (MB):	Method Blank Results (mg/kg)	Reporting Limit (mg/kg)	Flag
Acenaphthene	< 0.33	0.33	
Acenaphthylene	< 0.33	0.33	
Anthracene	< 0.33	0.33	
Benzo(a)anthracene	< 0.33	0.33	
Benzo(a)pyrene	< 0.067	0.067	
Benzo(b)fluoranthene	< 0.33	0.33	
Benzo(g,h,i)perylene	< 0.33	0.33	
Benzo(k)fluoranthene	< 0.33	0.33	
Chrysene	< 0.33	0.33	
Dibenzo(a,h)anthracene	< 0.067	0.067	
Fluoranthene	< 0.33	0.33	
Fluorene	< 0.33	0.33	
Indeno(1,2,3-cd)pyrene	< 0.33	0.33	
2-methylnaphthalene	< 0.33	0.33	
Naphthalene	< 0.067	0.067	
Phenanthrene	< 0.30	0.30	
Pyrene	< 0.33	0.33	
Nitrobenzene-d5 (surrogate)	55%		
2-Fluorobiphenyl (surrogate)	59%		
p-Terphenyl-d14 (surrogate)	97%		
Analysis Date/Time	2-1-15/20:54		
Analyst Initials	ajg		
Date Extracted	1/28/2015		
Initial Sample Weight:	30 g		
Final Volume	1.0 mL		

LCS	LCS Results	LCS Concentration	LCS Recovery	Flag
Acenaphthene	40.5	50	81%	
Acenaphthylene	37.5	50	75%	
Anthracene	40.5	50	81%	
Benzo(a)anthracene	40.9	50	82%	
Benzo(a)pyrene	45.1	50	90%	
Benzo(b)fluoranthene	47.7	50	95%	
Benzo(g,h,i)perylene	38.2	50	76%	
Benzo(k)fluoranthene	44.6	50	89%	
Chrysene	42.7	50	85%	
Dibenzo(a,h)anthracene	45.3	50	91%	
Fluoranthene	37.2	50	74%	
Fluorene	39.9	50	80%	
Indeno(1,2,3-cd)pyrene	44.7	50	89%	
2-methylnaphthalene	39.6	50	79%	
Naphthalene	39.8	50	80%	
Phenanthrene	41.1	50	82%	
Pyrene	46.0	50	92%	
Nitrobenzene-d5 (surrogate)	71%			
2-Fluorobiphenyl (surrogate)	74%			
p-Terphenyl-d14 (surrogate)	103%			
Analysis Date/Time:	2-1-15/21:47			
Analyst Initials:	ajg			
Date Extracted:	1/28/2015			
Initial Sample Weight:	30 g			
Final Volume:	1.0 mL			



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EPA 8260 Quality Control Data

ENVision Batch Number: 020215CVW

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



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8260 QC Continued...

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.4	1.4	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,1,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	101%		
1,2-Dichloroethane-d4 (surrogate)	89%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	2-2-15/23:58		
Analyst Initials	tjg		



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8260 QC Continued...

<u>LCS/LCSD</u>	<u>LCS Results (ug/L)</u>	<u>LCS/LCSD Conc. (ug/L)</u>	<u>LCSD Result (ug/L)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	51.3	50	49.5	103%	99%	3.6	
1,1-Dichloroethene	51.6	50	50.0	103%	100%	3.1	
trans-1,2-Dichloroethene	52.3	50	50.6	105%	101%	3.3	
Methyl-tert-butyl-ether	51.3	50	49.6	103%	99%	3.4	
1,1-Dichloroethane	51.8	50	50.5	104%	101%	2.5	
cis-1,2-Dichloroethene	52.1	50	49.7	104%	99%	4.7	
Chloroform	51.2	50	49.2	102%	98%	4.0	
1,1,1-Trichloroethane	51.5	50	49.9	103%	100%	3.2	
Benzene	50.6	50	49.1	101%	98%	3.0	
Trichloroethene	52.5	50	50.3	105%	101%	4.3	
Toluene	50.0	50	48.4	100%	97%	3.3	
1,1,1,2-Tetrachloroethane	51.1	50	51.0	102%	102%	0.2	
Chlorobenzene	50.6	50	49.9	101%	100%	1.4	
Ethylbenzene	50.1	50	49.4	100%	99%	1.4	
o-Xylene	51.3	50	50.2	103%	100%	2.2	
n-Propylbenzene	49.5	50	49.3	99%	99%	0.4	
Dibromofluoromethane (surrogate)	103%		100%				
1,2-Dichloroethane-d4 (surrogate)	99%		96%				
Toluene-d8 (surrogate)	98%		98%				
4-bromofluorobenzene (surrogate)	98%		99%				
Analysis Date/Time:	2-2-15/23:17		2-2-15/23:37				
Analyst Initials	tjg		tjg				



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EPA 8270SIM Quality Control Data

ENVISSION Batch Number: 012815PW1

Method Blank (MB):	Method Blank Result (ug/L)	Reporting Limit (ug/L)	Flag
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.10	0.10	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d14 (surrogate)	98%		
2-Fluorobiphenyl (surrogate)	45%		
p-Terphenyl-d14 (surrogate)	76%		
Analysis Date/Time:	1-29-15/16:59		
Analyst Initials	ajg		
Date Extracted	1/28/2015		
Initial Sample Volume	40ml		
Final Volume	2.0ml		



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LCS	LCS Results (ug/L)	LCS Conc. (ug/L)	LCS Recovery	Flag
Acenaphthene	1.18	2.0	59%	
Acenaphthylene	1.07	2.0	54%	
Anthracene	1.05	2.0	53%	
Benzo(a)anthracene	1.17	2.0	59%	
Benzo(a)pyrene	1.38	2.0	69%	
Benzo(b)fluoranthene	1.37	2.0	69%	
Benzo(g,h,i)perylene	1.15	2.0	58%	
Benzo(k)fluoranthene	1.30	2.0	65%	
Chrysene	1.06	2.0	53%	
Dibenzo(a,h)anthracene	1.23	2.0	62%	
Fluoranthene	1.13	2.0	57%	
Fluorene	1.16	2.0	58%	
Indeno(1,2,3-cd)pyrene	1.20	2.0	60%	
2-methylnaphthalene	1.17	2.0	59%	
Naphthalene	1.67	2.0	84%	
Phenanthrene	1.01	2.0	51%	
Pyrene	1.15	2.0	58%	
Nitrobenzene-d14(surrogate)	94%			
2-Fluorobiphenyl (surrogate)	87%			
p-Terphenyl-d14 (surrogate)	87%			
Analysis Date/Time:	1-29-15/17:24			
Analyst Initials:	ajg			
Date Extracted:	1/28/2015			
Initial Sample Volume:	40ml			
Final Volume:	2.0ml			



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EPA 6010B Metals Quality Control Data

ENVISSION Batch Number: 020215icp

<u>Method Blank (MB):</u>	<u>MB Results (mg/L)</u>	<u>Rep Lim (mg/L)</u>	<u>Flag</u>
Lead, total	< 0.01	0.01	
Analysis Date/Time:	2-2-15/10:09		
Analyst Initials:	gjd		

<u>Laboratory Control Standard (LCS):</u>	<u>LCS Results(mg/L)</u>	<u>LCS Conc(mg/L)</u>	<u>% Rec</u>	<u>Flag</u>
Lead, total	0.48	0.50	96	
Analysis Date/Time:	2-2-15/11:15			
Analyst Initials:	gjd			



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Flag Number

1

Comments

Reported value is below the reporting limit but above the MDL.



CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: <u>Creek Run LLC</u>	Invoice Address: <u>Same</u>	REQUESTED PARAMETERS	
Report Address: <u>PO Box 114 Mentelover, IN 47359</u>	Project Name: <u>Edinburgh 11940 N. U.S.-31</u>	<p>VOCs 8260 PAHs 8278 Lead 6010 Total Lead 6010 PCBs 8082 97 No. of</p>	
Report To: <u>CParks@creerun.com</u>	Lab Contact: <u>Ryan Peterson</u>	<p>CO₂ 8260 HCl HNO₃ H₂SO₄ NaOH Other None</p>	
Phone: <u>765 728 8051</u>	Sampled by: <u>Ryan Peterson</u>	<p>Sample Integrity: Cooler Temp: <u>5</u> °C Samples on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ENVision provided bottles: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No VOC vials free of head-space: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No pH checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Method 5035 collection used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 5035 samples received within 48 hr of Collection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	
Fax: <u>765 728 3041</u>	P.O. Number: <u>3041</u>	<p>Please indicate number of containers per preservative below</p>	
Desired TAT: (Please Circle One) 1-2 days 3-6 days Std (7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV		

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	VOCs	PAHs	Lead	Total Lead	PCBs	HCl	HNO ₃	H ₂ SO ₄	NaOH	Other	ENVision Sample ID	
B-6 (18-20')	1/28/15	1030	G	Soil	X	X	X	X	X					3	2	15-1561
B-7 (20-22')		1442			X	X	X	X	X					3	3	15-1562
B-8 (0-2')		1022			X	X	X	X	X					3	2	15-1563
B-8 (20-28')		1025			X	X	X	X	X					3	2	15-1564
B-9 (20-22')		1207			X	X	X	X	X					3	2	15-1565
B-9 (24-26')		1222			X	X	X	X	X					3	2	15-1566
WT-1		1640		Water	X	X	X	X	X	3	1			3	3	15-1567
WT-2		1645			X	X	X	X	X	3	1			4	4	15-1568
B-8		1205			X	X	X	X	X	3	1			3	3	15-1569
B-9		1230			X	X	X	X	X	3	1			3	3	15-1570
TB-1		1700			X	X	X	X	X	3						15-1571

Comments: Soil samples for VOCs for on 1/28/14

Relinquished by: [Signature] Date: 1-29-15 Time: 10:30

Received by: [Signature] Date: 1-29-15 Time: 13:40

ENVision Proj#: 2015-2164



5035 CHECK-IN SHEET

Client Name: Creek Run LLC ENVision project#: 2015-216

Cooler Temp: 5 °C

Method 5035A used: YES NO

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES NO

5035A samples were received within 48 hrs of collection: YES NO

5035A samples were frozen within 48 hrs of collection by lab: YES NO
 If NO, did client freeze samples? YES NO

5035A Table A.1 Reference:
 Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then frozen to < -7°C upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES NO

5035A Table A.1 Reference:
 Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: Cathy Shaffner 1-29-15



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8260 VOC
Package Review

ENVision Project#: 2015-214

- Sequence Log
- 8260 Soil / Water Limits

Initial Calibration Data

Calibration Curve: 013015 RC VOC 1 ✓
020215 RC GC MS #2 ✓

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- M Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Raw Sample Data (if applicable – Level IV)

The contents of this Level QA/QC package have been reviewed for completeness and compliance with method requirements.

QA Manager Signature of approval: *Cheryl Cum*



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8260 VOC

- Sequence Log
- 8260 Soil / Water Limits

Injection Log

Directory: C:\HPCHEM\1\DATA\020215

VOC
Soils
"RCB"

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	BFB/CCV 50ppb	010715 VOC1 curve, 8260 ical	2 Feb 2015 11:34
2	2	0201002.D	1.	LCS 50ppb	010715 VOC1 curve, 8260 ical	2 Feb 2015 11:52
3	3	0301003.D	1.	MB	010715 VOC1 curve, 8260 ical	2 Feb 2015 12:11
4	4	0401004.D	1.	1436	010715 VOC1 curve, 8260 ical	2 Feb 2015 12:30
5	5	0501005.D	1.	1437	010715 VOC1 curve, 8260 ical	2 Feb 2015 12:49
6	6	0601006.D	1.	1438	010715 VOC1 curve, 8260 ical	2 Feb 2015 13:08
7	7	0701007.D	1.	1438:50	010715 VOC1 curve, 8260 ical	2 Feb 2015 13:26
8	8	0801008.D	1.	1439	010715 VOC1 curve, 8260 ical	2 Feb 2015 13:45
9	9	0901009.D	1.	1440	010715 VOC1 curve, 8260 ical	2 Feb 2015 14:04
10	10	1001010.D	1.	1441	010715 VOC1 curve, 8260 ical	2 Feb 2015 14:23
11	11	1101011.D	1.	1442	010715 VOC1 curve, 8260 ical	2 Feb 2015 14:42
12	12	1201012.D	1.	1442ms	010715 VOC1 curve, 8260 ical	2 Feb 2015 15:00
13	13	1301013.D	1.	1442msd	010715 VOC1 curve, 8260 ical	2 Feb 2015 15:19
14	14	1401014.D	1.	690 v wt conf	010715 VOC1 curve, 8260 ical	2 Feb 2015 15:38
15	15	1501015.D	1.	1443	010715 VOC1 curve, 8260 ical	2 Feb 2015 15:57
16	16	1601016.D	1.	1444	010715 VOC1 curve, 8260 ical	2 Feb 2015 16:16
17	17	1701017.D	1.	1445	010715 VOC1 curve, 8260 ical	2 Feb 2015 16:34
18	18	1801018.D	1.	1446	010715 VOC1 curve, 8260 ical	2 Feb 2015 16:53
19	19	1901019.D	1.	1447	010715 VOC1 curve, 8260 ical	2 Feb 2015 17:12
20	20	2001020.D	1.	1448	010715 VOC1 curve, 8260 ical	2 Feb 2015 17:31
21	21	2101021.D	1.	1449	010715 VOC1 curve, 8260 ical	2 Feb 2015 17:50
22	22	2201022.D	1.	1450	010715 VOC1 curve, 8260 ical	2 Feb 2015 18:09
23	23	2301023.D	1.	1451	010715 VOC1 curve, 8260 ical	2 Feb 2015 18:27
24	24	2401024.D	1.	1452	010715 VOC1 curve, 8260 ical	2 Feb 2015 18:46
25	25	2501025.D	1.	BFB/CCV 50ppb	010715 VOC1 curve, 8260 ical	2 Feb 2015 19:05
26	26	2601026.D	1.	LCS 50ppb	010715 VOC1 curve, 8260 ical	2 Feb 2015 19:23
27	27	2701027.D	1.	MB	010715 VOC1 curve, 8260 ical	2 Feb 2015 19:42
28	28	2801028.D	1.	1453	010715 VOC1 curve, 8260 ical	2 Feb 2015 20:01
29	29	2901029.D	1.	1454	010715 VOC1 curve, 8260 ical	2 Feb 2015 20:19

Injection Log

Directory: C:\HPCHEM\1\DATA\020215

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
30	30	3001030.D	1.	1455	010715 VOC1 curve, 8260 ical	2 Feb 2015 20:38
31	31	3101031.D	1.	1456	010715 VOC1 curve, 8260 ical	2 Feb 2015 20:57
32	32	3201032.D	1.	1457	010715 VOC1 curve, 8260 ical	2 Feb 2015 21:15
33	33	3301033.D	1.	1457:50	010715 VOC1 curve, 8260 ical	2 Feb 2015 21:34
34	34	3401034.D	1.	1458	010715 VOC1 curve, 8260 ical	2 Feb 2015 21:53
35	35	3501035.D	1.	1459	010715 VOC1 curve, 8260 ical	2 Feb 2015 22:11
36	36	3601036.D	1.	1460	010715 VOC1 curve, 8260 ical	2 Feb 2015 22:30
37	37	3701037.D	1.	1461,	010715 VOC1 curve, 8260 ical	2 Feb 2015 22:48
38	38	3801001.D	1.	1461ms	010715 VOC1 curve, 8260 ical	2 Feb 2015 23:00
39		3801038.D	1.			
40	39	3901002.D	1.	1461msd	010715 VOC1 curve, 8260 ical	2 Feb 2015 23:18
41	40	4001003.D	1.	1462	010715 VOC1 curve, 8260 ical	2 Feb 2015 23:37
42	41	4101004.D	1.	1463	010715 VOC1 curve, 8260 ical	2 Feb 2015 23:56
43	42	4201005.D	1.	1464	010715 VOC1 curve, 8260 ical	3 Feb 2015 00:15
44	43	4301006.D	1.	1465	010715 VOC1 curve, 8260 ical	3 Feb 2015 00:33
45	44	4401007.D	1.	1466	010715 VOC1 curve, 8260 ical	3 Feb 2015 00:52
46	45	4501008.D	1.	1467	010715 VOC1 curve, 8260 ical	3 Feb 2015 01:11
47	46	4601009.D	1.	1561 ✓	010715 VOC1 curve, 8260 ical	3 Feb 2015 01:30
48	47	4701010.D	1.	1561:50	010715 VOC1 curve, 8260 ical	3 Feb 2015 01:49
49	48	4801011.D	1.	1562 \	010715 VOC1 curve, 8260 ical	3 Feb 2015 02:07
50	49	4901012.D	1.	1564	010715 VOC1 curve, 8260 ical	3 Feb 2015 02:26
51	50	5001013.D	1.	1564:50	010715 VOC1 curve, 8260 ical	3 Feb 2015 02:45
52	51	5101014.D	1.	1075:50	010715 VOC1 curve, 8260 ical	3 Feb 2015 03:04
53	52	5201015.D	1.	1075:1000	010715 VOC1 curve, 8260 ical	3 Feb 2015 03:23

Injection Log

Directory: C:\HPCHEM\1\DATA\020215C

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	b	ical	2 Feb 2015 08:05
2	2	0201002.D	1.	1ppb 8260	ical	2 Feb 2015 08:26
3	3	0301003.D	1.	1ppb 8260	ical	2 Feb 2015 08:46
4	4	0401004.D	1.	5ppb 8260	ical	2 Feb 2015 09:07
5	5	0501005.D	1.	10ppb 8260	ical	2 Feb 2015 09:27
6	6	0601006.D	1.	20ppb 8260	ical	2 Feb 2015 09:47
7	7	0701007.D	1.	50ppb 8260	ical	2 Feb 2015 10:08
8	8	0801008.D	1.	100ppb 8260	ical	2 Feb 2015 10:28
9	9	0901009.D	1.	200ppb 8260	ical	2 Feb 2015 10:49
10	10	1001010.D	1.	spacer blank	qc	2 Feb 2015 11:09
11	11	1101011.D	1.	50 icv	qc	2 Feb 2015 11:30
12	12	1201012.D	1.	mb	qc	2 Feb 2015 11:50
13	13	1301013.D	1.	15-1188:20 con for nfo	qc	2 Feb 2015 12:11
14	14	1401001.D	1.	15-1519	a	2 Feb 2015 12:45
15	15	1501002.D	1.	15-1519:10	a	2 Feb 2015 13:05
16	16	1601003.D	1.	15-1520	a	2 Feb 2015 13:26
17	17	1701004.D	1.	15-1521	a	2 Feb 2015 13:46
18	18	1801005.D	1.	15-1522	a	2 Feb 2015 14:07
19	19	1901006.D	1.	15-1523	a	2 Feb 2015 14:27
20	20	2001007.D	1.	15-1524	a	2 Feb 2015 14:48
21	21	2101008.D	1.	15-1525	a	2 Feb 2015 15:08
22	22	2201009.D	1.	15-1526	a	2 Feb 2015 15:29
23	23	2301010.D	1.	15-1527	a	2 Feb 2015 15:49
24	24	2401011.D	1.	15-1528	a	2 Feb 2015 16:09
25	25	2501012.D	1.	15-1529	a	2 Feb 2015 16:30
26	26	2601013.D	1.	15-1530	a	2 Feb 2015 16:50
27	27	2701014.D	1.	15-1531	a	2 Feb 2015 17:11
28	28	2801015.D	1.	15-1532	a	2 Feb 2015 17:31
29	29	2901016.D	1.	15-1533	a	2 Feb 2015 17:51
30	30	3001017.D	1.	15-1534	a	2 Feb 2015 18:12
31	31	3101018.D	1.	15-1537	a	2 Feb 2015 18:32
32	32	3201019.D	1.	15-1538	a	2 Feb 2015 18:53
33	33	3301020.D	1.	15-1539	a	2 Feb 2015 19:13
34	34	3401021.D	1.	15-1540	a	2 Feb 2015 19:33
35	35	3501022.D	1.	15-1541	a	2 Feb 2015 19:54
36	36	3601023.D	1.	15-1542	a	2 Feb 2015 20:14
37	37	3701024.D	1.	15-1543	a	2 Feb 2015 20:34
38	38	3801025.D	1.	15-1544	a	2 Feb 2015 20:55
39	39	3901026.D	1.	15-1545	a	2 Feb 2015 21:15
40	40	4001027.D	1.	15-1545ms	b	2 Feb 2015 21:36
41	41	4101028.D	1.	15-1545msd	c	2 Feb 2015 21:56
42	42	4201029.D	1.	15-1546	a	2 Feb 2015 22:16
43	43	4301030.D	1.	15-1547 tb	a	2 Feb 2015 22:36
44	44	4401031.D	1.	bfb/ccv 50ppb	qc	2 Feb 2015 22:57
45	45	4501032.D	1.	lcs 50ppb	qc	2 Feb 2015 23:17
46	46	4601033.D	1.	lcsd 50ppb	qc	2 Feb 2015 23:37
47	47	4701034.D	1.	mb	qc	2 Feb 2015 23:58
48	48	4801035.D	1.	15-1548	a	3 Feb 2015 00:18
49	49	4901036.D	1.	15-1549	a	3 Feb 2015 00:38
50	50	5001037.D	1.	15-1550	a	3 Feb 2015 00:59
51	51	5101038.D	1.	15-1551	a	3 Feb 2015 01:19
52	52	5201039.D	1.	15-1552	a	3 Feb 2015 01:39
53	53	5301040.D	1.	15-1553	a	3 Feb 2015 02:00
54	54	5401041.D	1.	15-1554	a	3 Feb 2015 02:20
55	55	5501042.D	1.	15-1555	a	3 Feb 2015 02:40

Injection Log

Directory: C:\HPCHEM\1\DATA\020215C

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
56	56	5601043.D	1.	15-1556	a	3 Feb 2015 03:01
57	57	5701044.D	1.	15-1557	a	3 Feb 2015 03:21
58	58	5801045.D	1.	15-1558	a	3 Feb 2015 03:41
59	59	5901046.D	1.	15-1558:10	a	3 Feb 2015 04:01
60	60	6001047.D	1.	15-1559	a	3 Feb 2015 04:22
61	61	6101048.D	1.	15-1559:10	a	3 Feb 2015 04:42
62	62	6201049.D	1.	15-1560 tb	a	3 Feb 2015 05:02
63	63	6301050.D	1.	15-1567 ✓	a	3 Feb 2015 05:24
64	64	6401051.D	1.	15-1432 rr st	a	3 Feb 2015 05:45
65	65	6501052.D	1.	15-1568	a	3 Feb 2015 06:05
66	66	6601053.D	1.	15-1569	a	3 Feb 2015 06:26
67	67	6701054.D	1.	15-1570	a	3 Feb 2015 06:46
68	68	6801055.D	1.	15-1571 tb ✓	a	3 Feb 2015 07:07
69	69	6901056.D	1.	15-1572	a	3 Feb 2015 07:27
70	70	7001057.D	1.	15-1573	a	3 Feb 2015 07:47
71	71	7101058.D	1.	15-1574	a	3 Feb 2015 08:08
72	72	7201059.D	1.	15-1575	a	3 Feb 2015 08:28
73	73	7301060.D	1.	15-1576	a	3 Feb 2015 08:49
74	74	7401061.D	1.	15-1577	a	3 Feb 2015 09:09
75	75	7501062.D	1.	15-1578	a	3 Feb 2015 09:30
76	76	7601063.D	1.	15-1579	a	3 Feb 2015 09:50
77	77	7701064.D	1.	15-1591	a	3 Feb 2015 10:11
78	78	7801001.D	1.	junk	a	3 Feb 2015 10:33

8260 Volatiles Statistical Control Limits - Effective 01-15-14

Surrogate	Water Limits % Rec	Soil Limits % Rec.
Dibromofluoromethane (surrogate)	76-128	75-126
1,2-Dichloroethane-d4 (surrogate)	65-129	73-131
Toluene-d8 (surrogate)	66-123	69-123
4-bromofluorobenzene (surrogate)	77-127	74-124

LCS	Water Limits % Rec	Soil Limits % Rec.
Vinyl Chloride	71-121	76-130
1,1-Dichloroethene	79-126	80-136
trans-1,2-Dichloroethene	79-124	80-129
Methyl-tert-butyl-ether	67-127	79-126
1,1-Dichloroethane	80-125	79-125
cis-1,2-Dichloroethene	79-125	80-126
Chloroform	79-120	77-120
1,1,1-Trichloroethane	79-125	80-126
Benzene	78-124	79-127
Trichloroethene	80-125	78-125
Toluene	79-127	79-131
1,1,1,2-Tetrachloroethane	79-125	79-121
Chlorobenzene	78-129	79-130
Ethylbenzene	79-130	78-131
o-Xylene	78-129	79-122
N-propylbenzene	77-130	75-130

MS/MSD	Water Limits % Rec	Soil Limits % Rec.
Vinyl Chloride	67-123	75-120
1,1-Dichloroethene	71-134	72-120
trans-1,2-Dichloroethene	74-128	72-122
Methyl-tert-butyl-ether	61-135	68-121
1,1-Dichloroethane	71-136	72-117
cis-1,2-Dichloroethene	66-140	67-124
Chloroform	72-124	61-123
1,1,1-Trichloroethane	65-135	74-126
Benzene	71-123	70-122
Trichloroethene	55-147	66-130
Toluene	71-126	58-149
1,1,1,2-Tetrachloroethane	81-117	74-121
Chlorobenzene	78-119	72-121
Ethylbenzene	73-122	66-122
o-Xylene	76-119	74-121
N-propylbenzene	60-127	69-120

LCS	Water Limits % Rec	Soil Limits % Rec.
Methyl-tert-butyl-ether	70-134	79-121
Benzene	80-130	79-128
Toluene	80-128	76-128
Ethylbenzene	79-132	79-125
Xylene, M&P	77-133	75-129
Xylene, Ortho	75-134	78-121
Naphthalene	75-131	79-120

MS/MSD	Water Limits % Rec	Soil Limits % Rec.
Methyl-tert-butyl-ether	75-124	77-128
Benzene	74-125	72-127
Toluene	80-127	61-125
Ethylbenzene	73-141	73-140
Xylene, M&P	76-138	71-145
Xylene, Ortho	77-132	73-128
Naphthalene	70-130	60-120



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8260 VOC Initial Calibration Data

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

Injection Log

Directory: C:\HPCHEM1\DATA\013015C

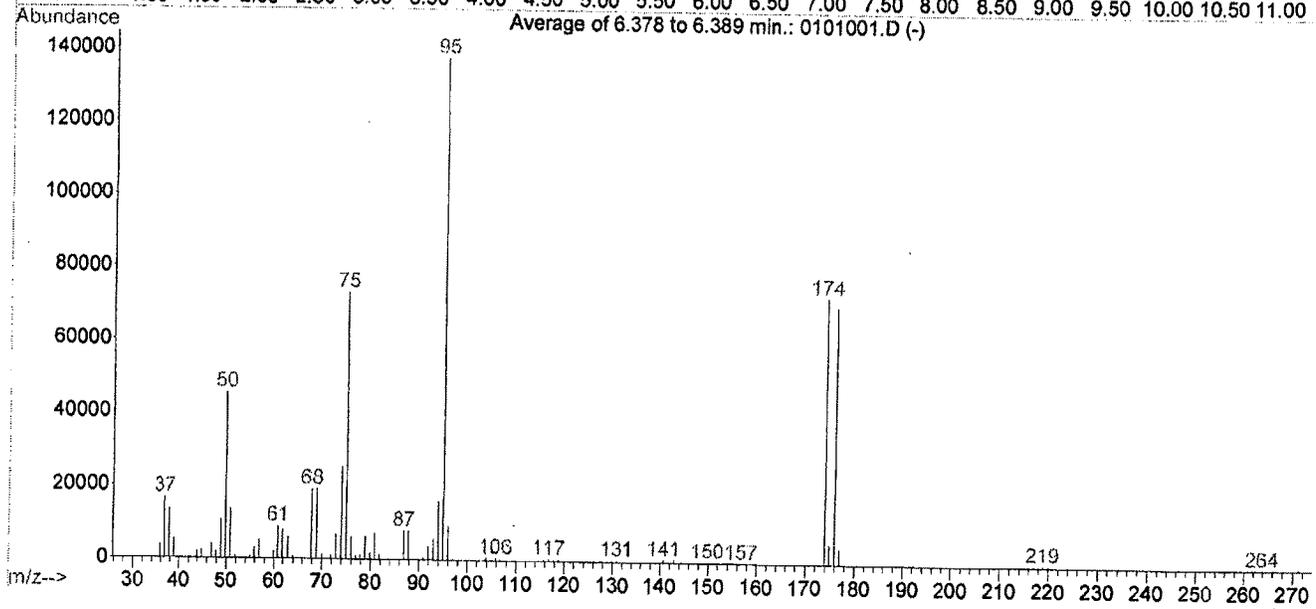
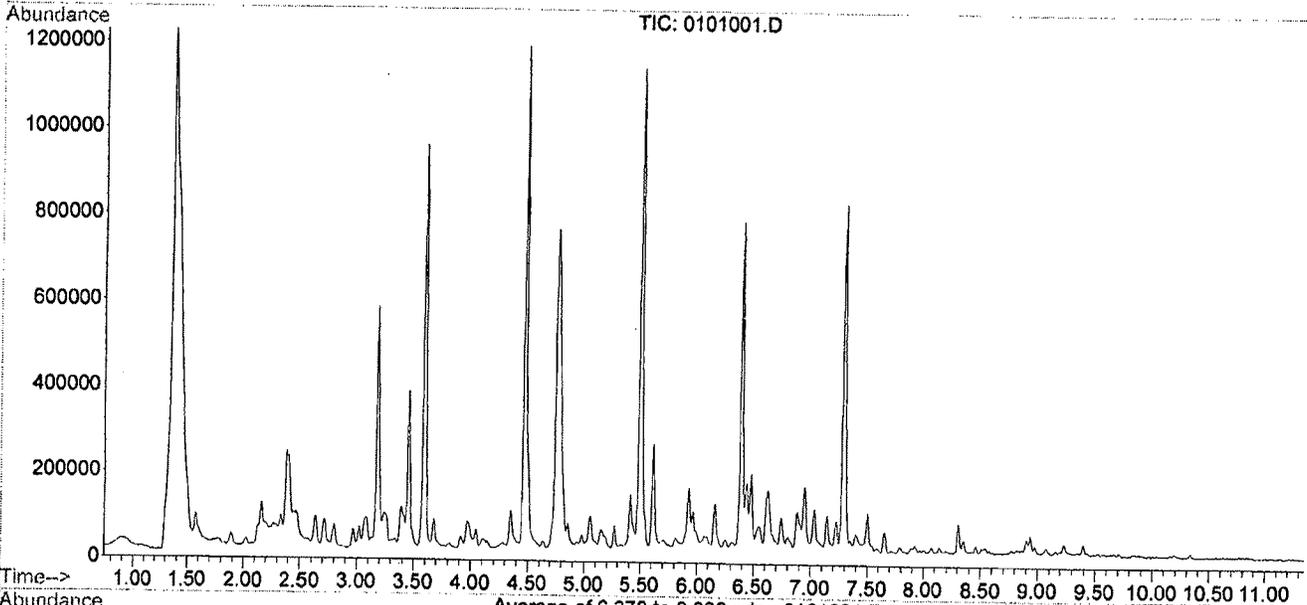
013015C - VOC1 8260 Curve

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	1ppb 8260 ical	121514 VOC1 curve, 8260 ical	30 Jan 2015 14:53
2	2	0201002.D	1.	5ppb 8260 ical	121514 VOC1 curve, 8260 ical	30 Jan 2015 15:22
3	3	0301003.D	1.	10ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 15:41
4	4	0401004.D	1.	20ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:00
5	5	0501005.D	1.	50ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:19
6	6	0601006.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:37
7	7	0701007.D	1.	100ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 16:56
8	8	0801008.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:15
9	9	0901009.D	1.	200ppb 8260 ical	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:33
10	10	1001010.D	1.	b	010715 VOC1 curve, 8260 ical	30 Jan 2015 17:52
11	11	1101011.D	1.	50ppb 8260 ical verification	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:11
12	12	1201012.D	1.	MB	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:30
13	13	1301013.D	1.	1105	010715 VOC1 curve, 8260 ical	30 Jan 2015 18:48
14	14	1401014.D	1.	1106	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:07
15	15	1501015.D	1.	1107	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:26
16	16	1601016.D	1.	1108	010715 VOC1 curve, 8260 ical	30 Jan 2015 19:44
17	17	1701017.D	1.	1109	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:03
18	18	1801018.D	1.	1110	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:22
19	19	1901019.D	1.	1111	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:40
20	20	2001020.D	1.	1112	010715 VOC1 curve, 8260 ical	30 Jan 2015 20:59
21	21	2101021.D	1.	1113	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:18
22	22	2201022.D	1.	1114	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:37
23	23	2301023.D	1.	1114ms	010715 VOC1 curve, 8260 ical	30 Jan 2015 21:55
24	24	2401024.D	1.	1114msd	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:14
25	25	2501025.D	1.	1115	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:32
26	26	2601026.D	1.	1116	010715 VOC1 curve, 8260 ical	30 Jan 2015 22:51
27	27	2701027.D	1.	1117	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:10
28	28	2801028.D	1.	1118	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:29
29	29	2901029.D	1.	1119	010715 VOC1 curve, 8260 ical	30 Jan 2015 23:47

BFB

Data File : C:\HPCHEM\1\DATA\013015C\0101001.D
Acq On : 30 Jan 2015 2:53 pm
Sample : 1ppb 8260 ical
Misc : 121514 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration

Vial: 1
Operator: gjd
Inst : VOC 1
Multiplr: 1.00



Spectrum Information: Average of 6.378 to 6.389 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.9	45307	PASS
75	95	30	60	53.0	72963	PASS
95	95	100	100	100.0	137646	PASS
96	95	5	9	6.7	9270	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	52.9	72872	PASS
175	174	5	9	7.6	5514	PASS
176	174	95	100	96.5	70317	PASS
177	176	5	9	6.4	4472	PASS

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration

Calibration Files
 20 =0401004.D 50 =0501005.D 100 =0701007.D
 200 =0901009.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
1) Fluorobenzene (IS)	-----ISTD-----							
2) Dichlorodifluoromet	1.044	0.975	1.085	1.100	0.787	0.751	0.957	15.92
3) Chloromethane	1.103	1.022	1.121	1.119	0.822	0.791	0.997	15.23
4) m Vinyl Chloride*	0.897	0.835	0.909	0.937	0.661	0.630	0.812	16.42
5) Bromomethane	0.424	0.328	0.291	0.205	0.382	0.371	0.333	23.34
6) Chloroethane	0.343	0.286	0.268	0.186	0.288	0.273	0.274	18.57
7) Acrolein	0.740	0.661	0.667	0.613	0.580	0.547	0.635	10.91
8) Trichlorofluorometh	1.102	0.904	0.800	0.568	0.842	0.840	0.843	20.42
9) Acetone	0.235	0.164	0.178	0.167	0.284	0.162	0.198	25.37
10) m 1,1-Dichloroethene*	1.324	1.176	1.215	1.065	0.982	0.931	1.116	13.41
11) Acrylonitrile	2.485	1.797	1.905	1.533	1.530	1.704	1.826	19.44
12) Iodomethane	0.657	0.666	0.747	0.732	0.457	0.464	0.621	20.75
13) Methylene Chloride	0.761	0.614	0.623	0.596	1.066	0.724	0.731	24.26
14) Carbon Disulfide	1.875	1.678	1.753	1.539	1.444	1.316	1.601	12.92
15) m trans-1,2-Dichloroe	0.602	0.543	0.563	0.515	0.471	0.443	0.523	11.26
16) m Methyl-tert-butyl e	1.637	1.413	1.477	1.378	1.355	1.196	1.409	10.33
17) m 1,1-Dichloroethane*	2.351	1.961	2.045	1.678	1.790	1.716	1.923	13.16
18) Vinyl Acetate	0.748	0.658	0.711	0.609	0.660	0.528	0.652	11.89
19) N-Hexane	1.519	1.320	1.302	1.186	1.179	1.086	1.265	11.98
20) N-Butanol	0.960	0.852	0.899	0.762	0.779	0.761	0.836	9.88
21) 2-Butanone (MEK)	0.528	0.441	0.469	0.382	0.453	0.340	0.435	15.25
22) m cis-1,2-Dichloroeth	1.800	1.592	1.622	1.492	1.345	1.362	1.536	11.25
23) Bromochloromethane	0.420	0.375	0.402	0.350	0.297	0.290	0.356	15.11
24) m Chloroform*	2.035	1.772	1.771	1.507	1.568	1.568	1.703	11.58
25) 2-2-Dichloropropane	1.694	1.524	1.596	1.430	1.250	1.191	1.448	13.60
26) s Dibromofluoromethan	0.308	0.288	0.294	0.256	0.299	0.292	0.290	6.12
27) s 1,2-Dichloroethane-	0.374	0.380	0.345	0.361	0.344	0.303	0.351	7.92
28) 1,2-Dichloroethane	1.446	1.298	1.361	1.225	1.145	1.043	1.253	11.70
29) m 1,1,1-Trichloroetha	1.526	1.370	1.403	1.187	1.154	1.132	1.296	12.39
30) 1,1-Dichloropropene	1.506	1.374	1.386	1.121	1.139	1.090	1.269	13.73
31) Carbon Tetrachlorid	1.396	1.280	1.344	1.162	0.984	0.973	1.190	15.24
32) m Benzene*	4.179	3.665	3.624	2.909	3.289	3.158	3.471	12.94
33) Dibromomethane	0.724	0.639	0.683	0.606	0.542	0.475	0.612	14.96
34) 1,2-Dichloropropane	1.302	1.168	1.177	0.943	1.033	0.991	1.102	12.33
35) m Trichloroethene*	1.123	0.988	1.005	0.867	0.882	0.828	0.949	11.62
36) Bromodichloromethan	1.585	1.416	1.426	1.218	1.232	1.129	1.335	12.72
37) 2-Chloroethyl-vinyl	0.023	0.015	0.013	0.014	0.014	0.022	0.017	27.12
38) cis-1,3-Dichloropro	1.853	1.668	1.782	1.560	1.391	1.320	1.596	13.29
39) 4-Methyl-2-Pentanon	1.385	1.153	1.247	1.035	1.108	0.873	1.134	15.49
40) trans-1,3-Dichlorop	1.568	1.335	1.340	1.042	1.196	1.101	1.264	15.18
41) 1,1,2-Trichloroetha	0.812	0.718	0.732	0.621	0.626	0.572	0.680	13.08
42) s Toluene-d8 (SURR)	0.894	0.986	0.873	1.062	0.728	0.710	0.875	15.85
43) m Toluene*	4.385	3.772	3.864	3.332	3.399	3.281	3.672	11.54
44) Ethyl Methacrylate	1.051	0.940	1.002	0.858	0.812	0.680	0.890	15.22
45) 1,3-Dichloropropane	1.563	1.356	1.452	1.229	1.170	1.031	1.300	14.97
46) 2-Hexanone	1.008	0.858	0.981	0.861	0.786	0.626	0.853	16.29
47) Chlorobenzene-d5 (IS)	-----ISTD-----							
48) Dibromochloromethan	1.303	1.226	1.326	1.221	0.952	0.917	1.158	15.39
49) 1,2-Dibromoethane (	1.230	1.094	1.226	1.113	0.934	0.838	1.073	14.72
50) Tetrachloroethene	1.267	1.163	1.218	1.049	1.012	0.961	1.111	10.98
51) m 1,1,1,2-Tetrachloro	1.103	1.007	1.016	0.916	0.820	0.848	0.952	11.46
52) m Chlorobenzene*	3.608	3.258	3.089	2.488	2.739	2.820	3.000	13.39
53) m Ethyl Benzene*	7.445	6.227	5.779	4.556	5.788	5.835	5.938	15.65
54) m,p-Xylene	5.448	4.700	4.282	3.119	4.333	4.485	4.394	17.20
55) Bromoform	0.668	0.625	0.701	0.637	0.469	0.431	0.589	18.86
56) Styrene	3.928	3.536	3.698	2.966	2.807	3.004	3.323	13.78
57) 1,1,2,2-Tetrachloro	1.137	0.997	1.040	0.885	0.877	0.771	0.951	13.86
58) m o-Xylene*	2.306	2.121	2.159	1.874	1.708	1.801	1.995	11.74
59) trans-1,4-Dichloro-	0.541	0.464	0.504	0.421	0.395	0.366	0.449	14.93

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration

Calibration Files
 20 =0401004.D 50 =0501005.D 100 =0701007.D
 200 =0901009.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
60) 1,2,3-Trichloroprop	1.731	1.649	1.715	1.337	1.466	1.294	1.532	12.59
61) Isopropylbenzene	6.219	5.618	5.412	4.574	4.415	4.563	5.134	14.17
62) s 4-Bromofluorobenzen	0.545	0.596	0.561	0.579	0.404	0.464	0.525	14.29
63) Bromobenzene	1.193	1.144	1.189	0.947	0.843	0.871	1.031	15.75
64) m N-Propylbenzene*	9.007	7.797	7.264	5.224	6.599	6.880	7.129	17.70
65) 2-Chlorotoluene	5.608	4.040	4.668	3.468	4.018	4.286	4.348	16.81
66) 4-Chlorotoluene	1.209	1.105	1.138	0.968	0.862	0.906	1.031	13.48
67) 1,4-Dichlorobenzene (	-----ISTD-----							
68) 1,3,5-Trimethylbenz	1.233	1.115	1.045	0.858	0.951	0.983	1.031	E1 12.80
69) tert-butylbenzene	1.141	1.071	1.062	0.916	0.872	0.891	0.992	E1 11.36
70) 1,2,4-Trimethylbenz	1.144	1.084	1.025	0.874	0.915	0.938	0.997	E1 10.54
71) sec-Butylbenzene	1.709	1.621	1.447	1.232	1.325	1.325	1.443	E1 12.95
72) 1,3-Dichlorobenzene	5.202	4.993	4.947	4.468	4.034	4.057	4.617	10.91
73) 1,4-Dichlorobenzene	3.342	3.151	3.165	2.898	2.593	2.612	2.960	10.51
74) p-Isopropyltoluene	1.149	1.076	1.043	0.906	0.861	0.885	0.987	E1 12.02
75) 1,2-Dichlorobenzene	4.674	4.703	4.941	4.776	3.578	3.546	4.370	14.48
76) N-Butylbenzene	1.524	1.472	1.388	1.190	1.093	1.129	1.299	E1 14.26
77) 1,2-Dibromo-3-chlor	0.280	0.292	0.343	0.403	0.200	0.166	0.281	31.30
78) 1,2,4-Trichlorobenz	1.861	2.331	2.916	3.271	1.075	1.196	2.108	42.51
79) Naphthalene	3.034	3.542	4.465	5.407	1.666	1.768	3.314	44.64
80) Hexachloro-1,3-buta	1.326	1.635	2.130	2.572	0.898	0.895	1.576	42.92
81) 1,2,3-Trichlorobenz	1.453	1.864	2.429	2.990	0.850	0.913	1.750	48.56
82) 1-Methylnaphthalene	0.681	0.757	0.851	0.870	0.665	0.645	0.745	13.06
83) 2-Methylnaphthalene	1.007	0.930	0.995	0.976	0.938	1.004	0.975	3.44

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0201002.D
 Acq On : 30 Jan 2015 3:22 pm
 Sample : 5ppb 8260 ical
 Misc : 121514 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 2
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:08 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	559957	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.43	117	378581	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.22	152	132545	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.13	113	167405	51.62	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	103.24%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	192758	49.01	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.02%
42) Toluene-d8 (SURR)	4.41	98	547817	48.72	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	97.44%
62) 4-Bromofluorobenzene (SURR)	6.33	95	222862	22.31	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	44.62%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	44060	4.11	ppb	99
3) Chloromethane	1.54	50	46018	4.12	ppb	# 98
4) Vinyl Chloride*	1.57	62	37021	4.07	ppb	95
5) Bromomethane	1.73	94	21371	5.08	ppb	# 94
6) Chloroethane	1.79	64	16150	5.26	ppb	95
7) Acrolein	2.43	56	32482	4.57	ppb	96
8) Trichlorofluoromethane	1.86	101	47171	5.00	ppb	98
9) Acetone	2.36	43	39801	17.92	ppb	# 92
10) 1,1-Dichloroethene*	2.09	61	54972	4.40	ppb	97
11) Acrylonitrile	2.66	53	85676	4.19	ppb	99
12) Iodomethane	2.16	142	25613	3.69	ppb	100
13) Methylene Chloride	2.34	84	59701	7.30	ppb	# 69
14) Carbon Disulfide	2.11	76	80854	4.51	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	26397	4.51	ppb	98
16) Methyl-tert-butyl ether* (	2.44	73	75851	4.81	ppb	95
17) 1,1-Dichloroethane*	2.68	63	100214	4.65	ppb	99
18) Vinyl Acetate	2.77	43	36936	5.06	ppb	# 100
19) N-Hexane	2.43	57	66005	4.66	ppb	98
20) N-Butanol	2.75	57	43608	4.66	ppb	# 100
21) 2-Butanone (MEK)	3.19	43	63469	13.02	ppb	98
22) cis-1,2-Dichloroethene*	2.92	61	75320	4.38	ppb	97
23) Bromochloromethane	3.02	128	16613	4.17	ppb	86
24) Chloroform*	3.04	83	87778	4.60	ppb	100
25) 2-2-Dichloropropane	2.98	77	69998	4.32	ppb	98
28) 1,2-Dichloroethane	3.44	62	64109	4.57	ppb	100
29) 1,1,1-Trichloroethane*	3.15	97	64641	4.46	ppb	99
30) 1,1-Dichloropropene	3.21	75	63769	4.49	ppb	98
31) Carbon Tetrachloride	3.12	117	55095	4.13	ppb	100
32) Benzene*	3.34	78	184176	4.74	ppb	99
33) Dibromomethane	3.86	93	30372	4.43	ppb	97
34) 1,2-Dichloropropane	3.91	63	57817	4.68	ppb	99
35) Trichloroethene*	3.63	95	49379	4.65	ppb	96
36) Bromodichloromethane	3.93	83	68997	4.62	ppb	99
37) 2-Chloroethyl-vinyl ether	4.24	63	3054	16.42	ppb	# 84
38) cis-1,3-Dichloropropene	4.30	75	77889	4.36	ppb	93
39) 4-Methyl-2-Pentanone (MIBK)	4.66	43	155116	12.22	ppb	# 96
40) trans-1,3-Dichloropene	4.69	75	66978	4.73	ppb	# 70
41) 1,1,2-Trichloroethane	4.80	83	35067	4.60	ppb	99
43) Toluene*	4.44	91	190341	4.63	ppb	99
44) Ethyl Methacrylate	4.77	69	45477	4.56	ppb	# 95
45) 1,3-Dichloropropane	4.99	76	65520	4.50	ppb	99
46) 2-Hexanone	5.21	43	109996	11.51	ppb	100
48) Dibromochloromethane	4.92	129	36023	2.06	ppb	98
49) 1,2-Dibromoethane (EDB)	5.09	107	35350	2.19	ppb	98

(#) = qualifier out of range (m) = manual integration
 0201002.D 013015RC.M Thu Feb 05 23:32:36 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0201002.D
 Acq On : 30 Jan 2015 3:22 pm
 Sample : 5ppb 8260 ical
 Misc : 121514 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 2
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:08 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	38294	2.20	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.48	131	31054	2.06	ppb	97
52) Chlorobenzene*	5.44	112	103689	2.13	ppb	91
53) Ethyl Benzene*	5.45	91	219120	2.22	ppb	93
54) m,p-Xylene	5.55	91	328086	4.42	ppb	96
55) Bromoform	5.94	173	17765	2.05	ppb	# 99
56) Styrene	5.91	104	106250	2.00	ppb	96
57) 1,1,2,2-Tetrachloroethane	6.47	85	33193	2.27	ppb	99
58) o-Xylene*	5.87	106	64679	2.04	ppb	95
59) trans-1,4-Dichloro-2-buten	6.61	53	14954	2.16	ppb	96
60) 1,2,3-Trichloropropane	6.58	75	55489m	20.46	ppb	
61) Isopropylbenzene	6.10	105	167154	2.04	ppb	98
63) Bromobenzene	6.41	156	31924	1.99	ppb	74
64) N-Propylbenzene*	6.42	91	249839	2.12	ppb	98
65) 2-Chlorotoluene	6.55	91	152100	2.09	ppb	98
66) 4-Chlorotoluene	6.68	126	32633	2.00	ppb	91
68) 1,3,5-Trimethylbenzene	6.57	105	125996	4.61	ppb	97
69) tert-butylbenzene	6.83	119	115616	4.40	ppb	95
70) 1,2,4-Trimethylbenzene	6.89	105	121318	4.59	ppb	98
71) sec-Butylbenzene	6.97	105	175666	4.59	ppb	99
72) 1,3-Dichlorobenzene	7.23	146	53471	4.37	ppb	96
73) 1,4-Dichlorobenzene	7.24	148	34365	4.38	ppb	96
74) p-Isopropyltoluene	7.08	119	114063	4.36	ppb	96
75) 1,2-Dichlorobenzene	7.59	146	47425	4.09	ppb	98
76) N-Butylbenzene	7.43	91	144926	4.21	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.27	155	2651	3.56	ppb	87
78) 1,2,4-Trichlorobenzene	8.87	180	14252	2.55	ppb	99
79) Naphthalene	9.17	128	22084	2.51	ppb	98
80) Hexachloro-1,3-butadiene	8.84	225	11907	2.85	ppb	99
81) 1,2,3-Trichlorobenzene	9.33	180	11271	2.43	ppb	98
83) 2-Methylnaphthalene	10.12	142	2427m	1.29	ppb	

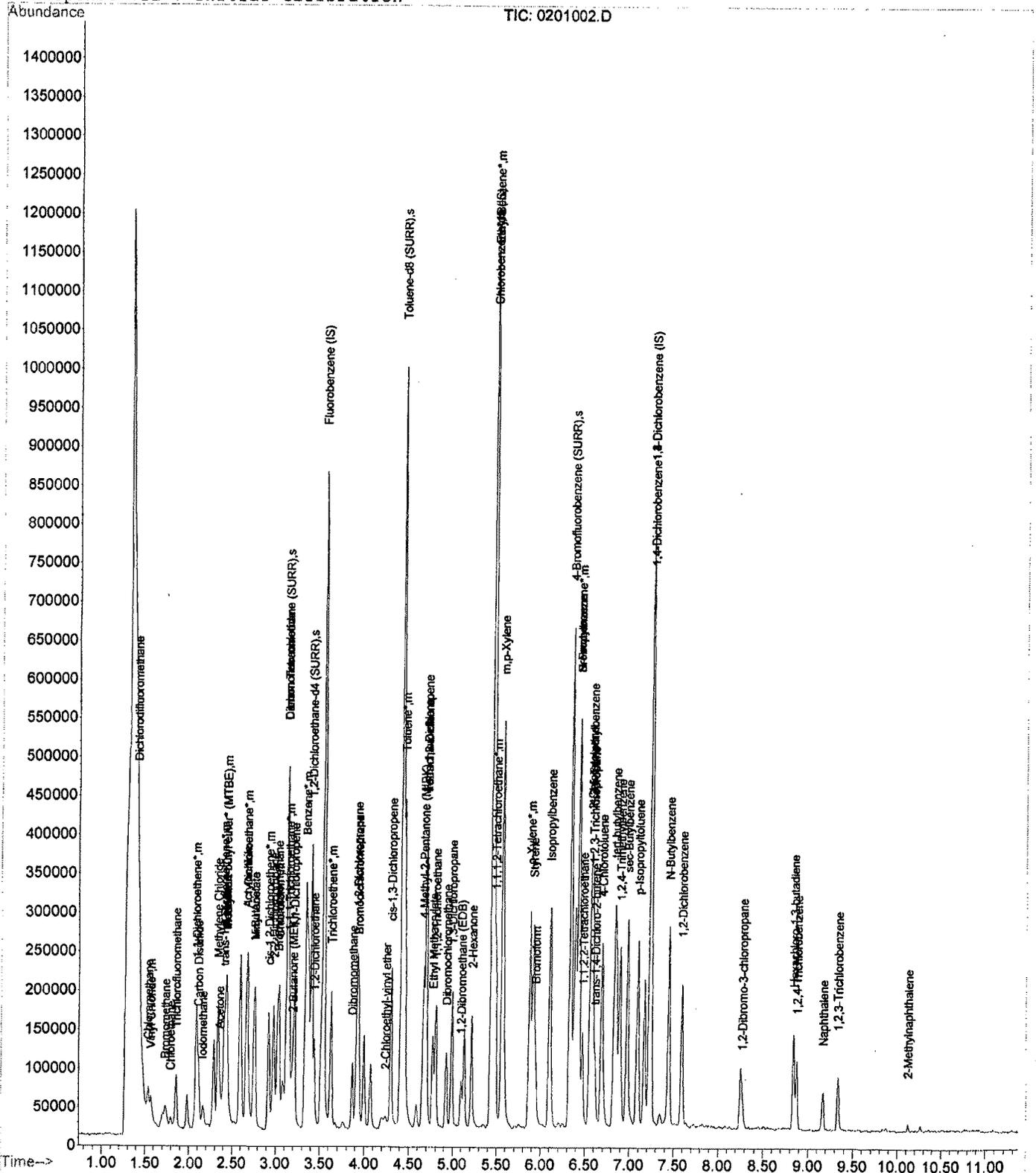
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\0201002.D
 Acq On : 30 Jan 2015 3:22 pm
 Sample : 5ppb 8260 ical
 Misc : 121514 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 2
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0301003.D Vial: 3
 Acq On : 30 Jan 2015 3:41 pm Operator: gjd
 Sample : 10ppb 8260 ical Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:26 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.53	96	542866	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.43	117	349389	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.22	152	126298	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.13	113	158506	50.42	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	100.84%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	164447	43.13	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	86.26%
42) Toluene-d8 (SURR)	4.41	98	535219	49.10	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	98.20%
62) 4-Bromofluorobenzene (SURR)	6.32	95	212182	23.01	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	46.02%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	81510	7.85	ppb	100
3) Chloromethane	1.54	50	85926	7.94	ppb	# 96
4) Vinyl Chloride*	1.57	62	68384	7.76	ppb	98
5) Bromomethane	1.74	94	40241	9.98	ppb	# 97
6) Chloroethane	1.79	64	29591	9.95	ppb	97
7) Acrolein	2.43	56	59386	8.62	ppb	98
8) Trichlorofluoromethane	1.86	101	91179	9.96	ppb	98
9) Acetone	2.36	43	44003	20.44	ppb	97
10) 1,1-Dichloroethene*	2.08	61	101035	8.34	ppb	97
11) Acrylonitrile	2.66	53	184979	9.33	ppb	92
12) Iodomethane	2.16	142	50398	7.48	ppb	98
13) Methylene Chloride	2.34	84	78632	9.91	ppb	94
14) Carbon Disulfide	2.11	76	142865	8.22	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	48066	8.47	ppb	98
16) Methyl-tert-butyl ether* (	2.44	73	129832	8.49	ppb	98
17) 1,1-Dichloroethane*	2.68	63	186306	8.92	ppb	100
18) Vinyl Acetate	2.76	43	57274	8.09	ppb	# 100
19) N-Hexane	2.43	57	117890	8.58	ppb	100
20) N-Butanol	2.75	57	82666	9.11	ppb	# 98
21) 2-Butanone (MEK)	3.19	43	92199	19.50	ppb	99
22) cis-1,2-Dichloroethene*	2.92	61	147839	8.87	ppb	97
23) Bromochloromethane	3.02	128	31509	8.16	ppb	87
24) Chloroform*	3.04	83	170234	9.20	ppb	100
25) 2-2-Dichloropropane	2.98	77	129352	8.23	ppb	99
28) 1,2-Dichloroethane	3.43	62	113228	8.32	ppb	99
29) 1,1,1-Trichloroethane*	3.15	97	122870	8.74	ppb	99
30) 1,1-Dichloropropene	3.21	75	118307	8.58	ppb	99
31) Carbon Tetrachloride	3.12	117	105686	8.18	ppb	99
32) Benzene*	3.34	78	342821	9.10	ppb	99
33) Dibromomethane	3.86	93	51598	7.77	ppb	97
34) 1,2-Dichloropropane	3.91	63	107571	8.99	ppb	98
35) Trichloroethene*	3.63	95	89929	8.73	ppb	97
36) Bromodichloromethane	3.93	83	122590	8.46	ppb	98
37) 2-Chloroethyl-vinyl ether	4.23	63	9521	52.80	ppb	93
38) cis-1,3-Dichloropropene	4.29	75	143320	8.27	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.66	43	237094	19.26	ppb	100
40) trans-1,3-Dichloropene	4.69	75	119489	8.71	ppb	# 73
41) 1,1,2-Trichloroethane	4.80	83	62097	8.41	ppb	99
43) Toluene*	4.44	91	356230	8.93	ppb	100
44) Ethyl Methacrylate	4.77	69	73849	7.64	ppb	99
45) 1,3-Dichloropropane	4.98	76	111964	7.93	ppb	99
46) 2-Hexanone	5.21	43	169835	18.34	ppb	99
48) Dibromochloromethane	4.92	129	64079	3.97	ppb	98
49) 1,2-Dibromoethane (EDB)	5.09	107	58587	3.93	ppb	100

(#) = qualifier out of range (m) = manual integration
 0301003.D 013015RC.M Thu Feb 05 23:32:42 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0301003.D
 Acq On : 30 Jan 2015 3:41 pm
 Sample : 10ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 3
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:26 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	67185	4.19	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.48	131	59253	4.26	ppb	97
52) Chlorobenzene*	5.44	112	197081	4.38	ppb	94
53) Ethyl Benzene*	5.45	91	407735	4.47	ppb	95
54) m,p-Xylene	5.55	91	626833	9.16	ppb	97
55) Bromoform	5.93	173	30136	3.77	ppb	# 99
56) Styrene	5.91	104	209910	4.29	ppb	98
57) 1,1,2,2-Tetrachloroethane	6.47	85	53857	4.00	ppb	99
58) o-Xylene*	5.87	106	125831	4.29	ppb	95
59) trans-1,4-Dichloro-2-buten	6.61	53	25544	4.01	ppb	92
60) 1,2,3-Trichloropropane	6.58	75	90394m	36.12	ppb	
61) Isopropylbenzene	6.10	105	318825	4.23	ppb	97
63) Bromobenzene	6.41	156	60873	4.12	ppb	77
64) N-Propylbenzene*	6.41	91	480766	4.42	ppb	98
65) 2-Chlorotoluene	6.55	91	299496	4.46	ppb	97
66) 4-Chlorotoluene	6.68	126	63334	4.22	ppb	90
68) 1,3,5-Trimethylbenzene	6.57	105	248290	9.54	ppb	98
69) tert-butylbenzene	6.82	119	225021	8.98	ppb	95
70) 1,2,4-Trimethylbenzene	6.88	105	236963	9.41	ppb	98
71) sec-Butylbenzene	6.97	105	334665	9.18	ppb	100
72) 1,3-Dichlorobenzene	7.23	146	102473	8.79	ppb	97
73) 1,4-Dichlorobenzene	7.23	148	65981	8.82	ppb	97
74) p-Isopropyltoluene	7.08	119	223620	8.97	ppb	97
75) 1,2-Dichlorobenzene	7.59	146	89567	8.11	ppb	98
76) N-Butylbenzene	7.43	91	285057	8.69	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.27	155	4200	5.92	ppb	85
78) 1,2,4-Trichlorobenzene	8.87	180	30202	5.67	ppb	99
79) Naphthalene	9.16	128	44661	5.34	ppb	99
80) Hexachloro-1,3-butadiene	8.83	225	22604	5.68	ppb	99
81) 1,2,3-Trichlorobenzene	9.33	180	23053	5.22	ppb	99
82) 1-Methylnaphthalene	10.26	142	4292m	1.52	ppb	
83) 2-Methylnaphthalene	10.12	142	6351m	3.54	ppb	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0401004.D
 Acq On : 30 Jan 2015 4:00 pm
 Sample : 20ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 4
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:46 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	443286	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.43	117	297519	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.22	152	113921	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.13	113	136608	53.21	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	106.42%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	165678	53.21	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	106.42%
42) Toluene-d8 (SURR)	4.41	98	436342	49.02	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	98.04%
62) 4-Bromofluorobenzene (SURR)	6.32	95	182062	39.74	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	79.48%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	185136	21.82	ppb	100
3) Chloromethane	1.54	50	195597	22.14	ppb	# 96
4) Vinyl Chloride*	1.57	62	158988	22.10	ppb	100
5) Bromomethane	1.74	94	75130	23.57	ppb	# 98
6) Chloroethane	1.80	64	60814	25.04	ppb	100
7) Acrolein	2.43	56	131226	23.32	ppb	99
8) Trichlorofluoromethane	1.85	101	195436	26.16	ppb	100
9) Acetone	2.36	43	104168	59.25	ppb	# 95
10) 1,1-Dichloroethene*	2.09	61	234829	23.74	ppb	99
11) Acrylonitrile	2.67	53	440580	27.22	ppb	92
12) Iodomethane	2.16	142	116530	21.18	ppb	99
13) Methylene Chloride	2.34	84	134850	20.82	ppb	98
14) Carbon Disulfide	2.11	76	332498	23.43	ppb	# 100
15) trans-1,2-Dichloroethene*	2.40	96	106664	23.01	ppb	97
16) Methyl-tert-butyl ether* (	2.44	73	290232	23.23	ppb	99
17) 1,1-Dichloroethane*	2.68	63	416898	24.45	ppb	100
18) Vinyl Acetate	2.76	43	132628	22.94	ppb	# 100
19) N-Hexane	2.43	57	269419	24.02	ppb	98
20) N-Butanol	2.76	57	170291	22.99	ppb	# 99
21) 2-Butanone (MEK)	3.18	43	234135	60.65	ppb	99
22) cis-1,2-Dichloroethene*	2.93	61	319234	23.45	ppb	98
23) Bromochloromethane	3.02	128	74501	23.63	ppb	94
24) Chloroform*	3.04	83	360820	23.89	ppb	100
25) 2-2-Dichloropropane	2.98	77	300431	23.41	ppb	98
28) 1,2-Dichloroethane	3.44	62	256354	23.08	ppb	95
29) 1,1,1-Trichloroethane*	3.16	97	270570	23.56	ppb	99
30) 1,1-Dichloropropene	3.21	75	267056	23.73	ppb	100
31) Carbon Tetrachloride	3.12	117	247487	23.46	ppb	100
32) Benzene*	3.33	78	740914	24.08	ppb	99
33) Dibromomethane	3.86	93	128361	23.67	ppb	98
34) 1,2-Dichloropropane	3.92	63	230803	23.62	ppb	99
35) Trichloroethene*	3.62	95	199171	23.67	ppb	98
36) Bromodichloromethane	3.94	83	281126	23.76	ppb	100
37) 2-Chloroethyl-vinyl ether	4.24	63	16159	109.74	ppb	98
38) cis-1,3-Dichloropropene	4.30	75	328484	23.22	ppb	98
39) 4-Methyl-2-Pentanone (MIBK)	4.66	43	613863	61.08	ppb	100
40) trans-1,3-Dichloropene	4.69	75	278037	24.82	ppb	# 73
41) 1,1,2-Trichloroethane	4.80	83	144013	23.88	ppb	99
43) Toluene*	4.44	91	777585	23.88	ppb	99
44) Ethyl Methacrylate	4.76	69	186282	23.60	ppb	99
45) 1,3-Dichloropropane	4.99	76	277153	24.04	ppb	100
46) 2-Hexanone	5.21	43	446673	59.05	ppb	99
48) Dibromochloromethane	4.92	129	155060	17.62	ppb	100
49) 1,2-Dibromoethane (EDB)	5.10	107	146408	17.88	ppb	99

(#) = qualifier out of range (m) = manual integration
 0401004.D 013015RC.M Thu Feb 05 23:32:47 2015

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0401004.D
 Acq On : 30 Jan 2015 4:00 pm
 Sample : 20ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:36 2015

Vial: 4
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:08:46 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	150725	17.79	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.48	131	131315	18.03	ppb	99
52) Chlorobenzene*	5.45	112	429325	18.55	ppb	96
53) Ethyl Benzene*	5.45	91	885955	19.15	ppb	97
54) m,p-Xylene	5.55	91	1296675	37.98	ppb	98
55) Bromoform	5.94	173	79532	17.74	ppb	# 100
56) Styrene	5.91	104	467499	18.31	ppb	99
57) 1,1,2,2-Tetrachloroethane	6.47	85	135254	18.46	ppb	100
58) o-Xylene*	5.87	106	274480	17.99	ppb	97
59) trans-1,4-Dichloro-2-buten	6.61	53	64381	18.59	ppb	100
60) 1,2,3-Trichloropropane	6.58	75	235995m	184.29	ppb	
61) Isopropylbenzene	6.10	105	740129	18.66	ppb	99
63) Bromobenzene	6.41	156	141983	18.00	ppb	86
64) N-Propylbenzene*	6.42	91	1071897	19.27	ppb	98
65) 2-Chlorotoluene	6.55	91	667343	19.57	ppb	97
66) 4-Chlorotoluene	6.68	126	143913	18.19	ppb	95
68) 1,3,5-Trimethylbenzene	6.57	105	561959	23.93	ppb	98
69) tert-butylbenzene	6.83	119	519838	23.00	ppb	96
70) 1,2,4-Trimethylbenzene	6.88	105	521126	22.95	ppb	99
71) sec-Butylbenzene	6.97	105	778718	23.68	ppb	100
72) 1,3-Dichlorobenzene	7.23	146	237032	22.53	ppb	98
73) 1,4-Dichlorobenzene	7.23	148	152291	22.58	ppb	98
74) p-Isopropyltoluene	7.08	119	523645	23.29	ppb	98
75) 1,2-Dichlorobenzene	7.59	146	212988	21.39	ppb	99
76) N-Butylbenzene	7.44	91	694527	23.46	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.27	155	12766	19.95	ppb	90
78) 1,2,4-Trichlorobenzene	8.87	180	84808	17.65	ppb	100
79) Naphthalene	9.16	128	138266	18.31	ppb	99
80) Hexachloro-1,3-butadiene	8.84	225	60428	16.83	ppb	100
81) 1,2,3-Trichlorobenzene	9.33	180	66193	16.60	ppb	99
82) 1-Methylnaphthalene	10.26	142	22035m	8.63	ppb	
83) 2-Methylnaphthalene	10.12	142	26875m	16.62	ppb	

(#) = qualifier out of range (m) = manual integration
 0401004.D 013015RC.M Thu Feb 05 23:32:47 2015

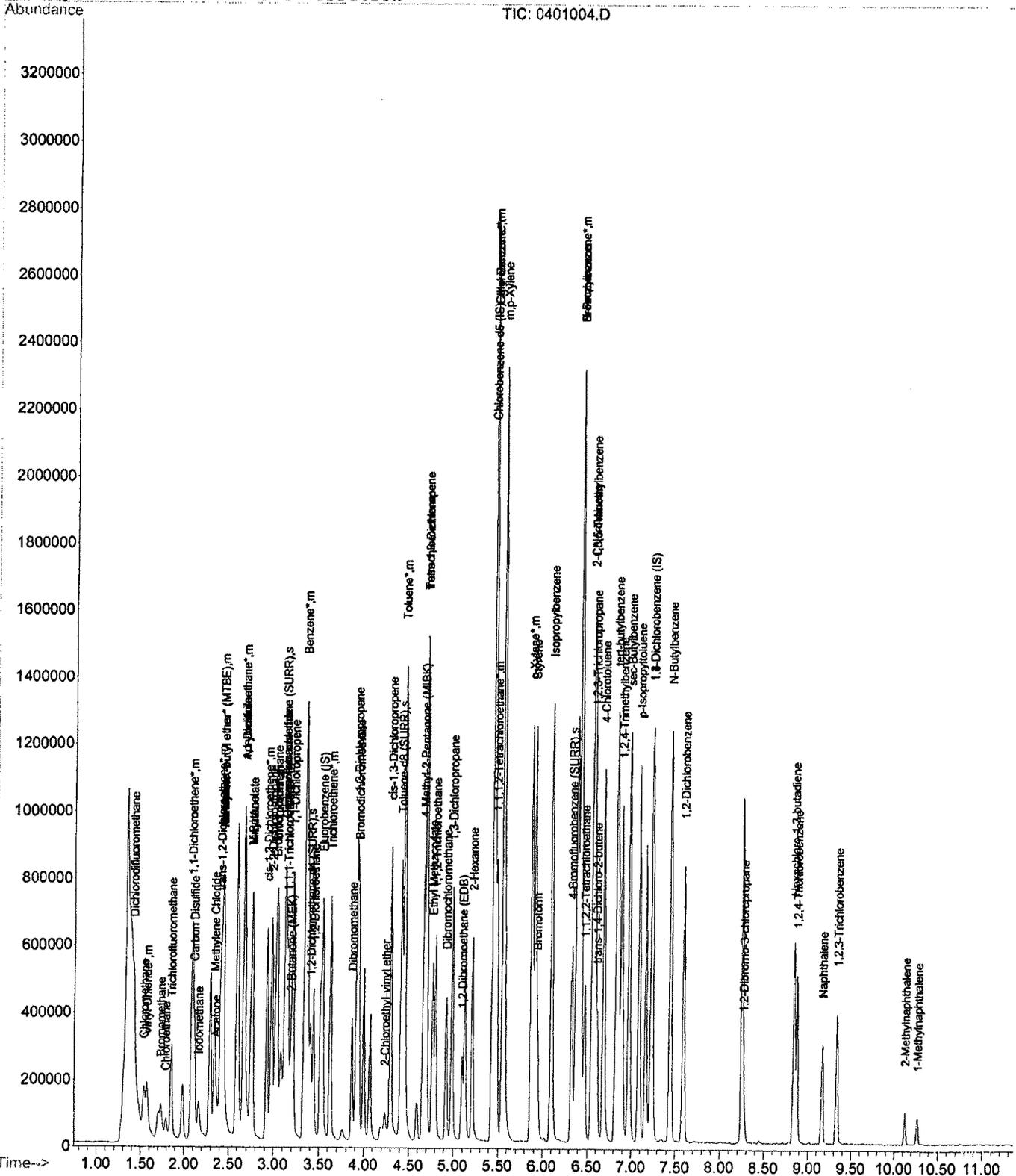
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\0401004.D
Acq On : 30 Jan 2015 4:00 pm
Sample : 20ppb 8260 ical
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 3 19:36 2015

Vial: 4
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Tue Feb 03 19:53:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0501005.D Vial: 5
 Acq On : 30 Jan 2015 4:19 pm Operator: gjd
 Sample : 50ppb 8260 ical Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015 Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Wed Jan 28 11:36:22 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	510861	50.00	ppb	-0.04
47) Chlorobenzene-d5 (IS)	5.43	117	342132m	50.00	ppb	-0.07
67) 1,4-Dichlorobenzene (IS)	7.23	152	128742	50.00	ppb	-0.09

System Monitoring Compounds	R.T.	Qion	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.13	113	147367	51.68	ppb	-0.04
Spiked Amount	50.000	Range	54 - 140	Recovery	=	103.36%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	194320	60.97	ppb	-0.04
Spiked Amount	50.000	Range	54 - 138	Recovery	=	121.94%
42) Toluene-d8 (SURR)	4.41	98	503455	51.34	ppb	-0.06
Spiked Amount	50.000	Range	61 - 127	Recovery	=	102.68%
62) 4-Bromofluorobenzene (SURR)	6.33	95	204017	51.55	ppb	-0.08
Spiked Amount	50.000	Range	69 - 131	Recovery	=	103.10%

Target Compounds	R.T.	Qion	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	498250	36.91	ppb	100
3) Chloromethane	1.54	50	522234	41.59	ppb	# 97
4) Vinyl Chloride*	1.57	62	426481	46.59	ppb	100
5) Bromomethane	1.74	94	167455	44.18	ppb	# 100
6) Chloroethane	1.79	64	146032	45.58	ppb	97
7) Acrolein	2.43	56	337646	48.70	ppb	96
8) Trichlorofluoromethane	1.86	101	461599	43.16	ppb	100
9) Acetone	2.36	43	209148	113.67	ppb	97
10) 1,1-Dichloroethene*	2.08	61	600946	49.28	ppb	99
11) Acrylonitrile	2.66	53	917861	39.35	ppb	98
12) Iodomethane	2.16	142	340020	51.73	ppb	94
13) Methylene Chloride	2.34	84	313458	57.05	ppb	92
14) Carbon Disulfide	2.12	76	857069	50.81	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	277487	50.81	ppb	97
16) Methyl-tert-butyl ether* (	2.44	73	721629	46.44	ppb	96
17) 1,1-Dichloroethane*	2.68	63	1001560	39.74	ppb	99
18) Vinyl Acetate	2.76	43	336212	40.64	ppb	# 100
19) N-Hexane	2.43	57	674219	49.62	ppb	100
20) N-Butanol	2.76	57	435110	37.84	ppb	# 96
21) 2-Butanone (MEK)	3.19	43	562617	98.83	ppb	98
22) cis-1,2-Dichloroethene*	2.92	61	813431	39.69	ppb	99
23) Bromochloromethane	3.02	128	191390	39.46	ppb	96
24) Chloroform*	3.04	83	905263	40.28	ppb	99
25) 2-2-Dichloropropane	2.98	77	778716	40.33	ppb	99
28) 1,2-Dichloroethane	3.44	62	663159	41.67	ppb	98
29) 1,1,1-Trichloroethane*	3.15	97	700037	42.40	ppb	100
30) 1,1-Dichloropropene	3.21	75	702009	41.44	ppb	100
31) Carbon Tetrachloride	3.13	117	654087	41.72	ppb	99
32) Benzene*	3.34	78	1872526	41.16	ppb	100
33) Dibromomethane	3.86	93	326373	41.30	ppb	100
34) 1,2-Dichloropropane	3.92	63	596845	40.61	ppb	98
35) Trichloroethene*	3.63	95	504821	40.64	ppb	97
36) Bromodichloromethane	3.93	83	723413	40.84	ppb	100
37) 2-Chloroethyl-vinyl ether	4.23	63	30180	174.58	ppb	91
38) cis-1,3-Dichloropropene	4.30	75	852135	39.69	ppb	99
39) 4-Methyl-2-Pentanone (MIBK)	4.66	43	1472722	99.80	ppb	100
40) trans-1,3-Dichloropene	4.69	75	681986	42.32	ppb	80
41) 1,1,2-Trichloroethane	4.80	83	366584	41.47	ppb	98
43) Toluene*	4.44	91	1927147	38.79	ppb	100
44) Ethyl Methacrylate	4.77	69	480059	38.69	ppb	95
45) 1,3-Dichloropropane	4.99	76	692681	39.57	ppb	100
46) 2-Hexanone	5.21	43	1095542	93.46	ppb	99
48) Dibromochloromethane	4.92	129	419618	40.92	ppb	99
49) 1,2-Dibromoethane (EDB)	5.10	107	374153	40.58	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0501005.D
 Acq On : 30 Jan 2015 4:19 pm
 Sample : 50ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015

Vial: 5
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Wed Jan 28 11:36:22 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	397920	41.00	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.48	131	344470	40.38	ppb	99
52) Chlorobenzene*	5.45	112	1114786	44.30	ppb	99
53) Ethyl Benzene*	5.46	91	2130539	43.79	ppb	100
54) m,p-Xylene	5.55	91	3216159	89.25	ppb	99
55) Bromoform	5.94	173	213750	39.78	ppb	# 100
56) Styrene	5.91	104	1209699	42.17	ppb	99
57) 1,1,2,2-Tetrachloroethane	6.47	85	341049	62.36	ppb	# 100
58) o-Xylene*	5.87	106	725651	42.03	ppb	98
59) trans-1,4-Dichloro-2-buten	6.61	53	158854	43.01	ppb	97
60) 1,2,3-Trichloropropane	6.59	75	564308m	59.75	ppb	
61) Isopropylbenzene	6.10	105	1921999	41.39	ppb	98
63) Bromobenzene	6.41	156	391524	44.88	ppb	97
64) N-Propylbenzene*	6.42	91	2667657	46.46	ppb	99
65) 2-Chlorotoluene	6.55	91	1382113	36.20	ppb	96
66) 4-Chlorotoluene	6.69	126	377900	40.75	ppb	92
68) 1,3,5-Trimethylbenzene	6.57	105	1435941	46.39	ppb	98
69) tert-butylbenzene	6.83	119	1378830	44.33	ppb	96
70) 1,2,4-Trimethylbenzene	6.89	105	1395957	43.23	ppb	98
71) sec-Butylbenzene	6.97	105	2086559	44.92	ppb	99
72) 1,3-Dichlorobenzene	7.24	146	642805	42.29	ppb	100
73) 1,4-Dichlorobenzene	7.24	148	405669	42.97	ppb	98
74) p-Isopropyltoluene	7.09	119	1385813	43.48	ppb	99
75) 1,2-Dichlorobenzene	7.59	146	605451	46.63	ppb	100
76) N-Butylbenzene	7.43	91	1894962	46.17	ppb	98
77) 1,2-Dibromo-3-chloropropan	8.27	155	37645	39.64	ppb	94
78) 1,2,4-Trichlorobenzene	8.87	180	300138	40.89	ppb	97
79) Naphthalene	9.17	128	456030	40.82	ppb	100
80) Hexachloro-1,3-butadiene	8.84	225	210430	41.76	ppb	100
81) 1,2,3-Trichlorobenzene	9.33	180	239969	39.29	ppb	99
82) 1-Methylnaphthalene	10.26	142	97450m	27.39	ppb	
83) 2-Methylnaphthalene	10.12	142	119743m	32.05	ppb	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0701007.D
 Acq On : 30 Jan 2015 4:56 pm
 Sample : 100ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015

Vial: 7
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:07:30 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	450781	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.44	117	304204	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.23	152	120847	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.13	113	132331	50.69	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	101.38%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	155602	49.14	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.28%
42) Toluene-d8 (SURR)	4.41	98	463627	51.22	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	102.44%
62) 4-Bromofluorobenzene (SURR)	6.33	95	200806	27.38	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	54.76%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	977902	113.35	ppb	100
3) Chloromethane	1.54	50	1010664	112.49	ppb	# 96
4) Vinyl Chloride*	1.57	62	819938	112.07	ppb	100
5) Bromomethane	1.74	94	262506	99.42	ppb	# 98
6) Chloroethane	1.79	64	241753	97.89	ppb	95
7) Acrolein	2.43	56	601385	105.09	ppb	100
8) Trichlorofluoromethane	1.85	101	721604	94.97	ppb	99
9) Acetone	2.36	43	401492	224.55	ppb	99
10) 1,1-Dichloroethene*	2.08	61	1095520	108.93	ppb	99
11) Acrylonitrile	2.67	53	1717837	104.37	ppb	100
12) Iodomethane	2.17	142	673715	120.41	ppb	100
13) Methylene Chloride	2.34	84	561480	85.25	ppb	98
14) Carbon Disulfide	2.12	76	1580177	109.50	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	507267	107.63	ppb	99
16) Methyl-tert-butyl ether* (	2.45	73	1331948	104.84	ppb	95
17) 1,1-Dichloroethane*	2.68	63	1843835	106.33	ppb	99
18) Vinyl Acetate	2.76	43	640826	108.98	ppb	# 100
19) N-Hexane	2.43	57	1173702	102.89	ppb	98
20) N-Butanol	2.76	57	810946	107.65	ppb	# 98
21) 2-Butanone (MEK)	3.19	43	1056043	269.01	ppb	99
22) cis-1,2-Dichloroethene*	2.92	61	1462509	105.64	ppb	99
23) Bromochloromethane	3.02	128	362240	112.98	ppb	90
24) Chloroform*	3.04	83	1596928	103.98	ppb	100
25) 2-2-Dichloropropane	2.98	77	1438564	110.23	ppb	98
28) 1,2-Dichloroethane	3.44	62	1227164	108.64	ppb	98
29) 1,1,1-Trichloroethane*	3.16	97	1265150	108.32	ppb	99
30) 1,1-Dichloropropene	3.21	75	1249438	109.18	ppb	99
31) Carbon Tetrachloride	3.13	117	1211645	112.95	ppb	99
32) Benzene*	3.34	78	3267315	104.42	ppb	100
33) Dibromomethane	3.87	93	615655	111.65	ppb	98
34) 1,2-Dichloropropane	3.92	63	1061224	106.79	ppb	98
35) Trichloroethene*	3.63	95	906061	105.91	ppb	98
36) Bromodichloromethane	3.94	83	1285780	106.86	ppb	100
37) 2-Chloroethyl-vinyl ether	4.24	63	45945	306.85	ppb	95
38) cis-1,3-Dichloropropene	4.30	75	1606188	111.66	ppb	98
39) 4-Methyl-2-Pentanone (MIBK)	4.67	43	2809758	274.93	ppb	99
40) trans-1,3-Dichloropene	4.70	75	1208006	106.04	ppb	96
41) 1,1,2-Trichloroethane	4.81	83	659946	107.61	ppb	98
43) Toluene*	4.45	91	3483272	105.21	ppb	100
44) Ethyl Methacrylate	4.77	69	903256	112.52	ppb	98
45) 1,3-Dichloropropane	4.99	76	1308963	111.67	ppb	100
46) 2-Hexanone	5.21	43	2210856	287.44	ppb	99
48) Dibromochloromethane	4.92	129	806939	63.51	ppb	100
49) 1,2-Dibromoethane (EDB)	5.10	107	745878	63.43	ppb	100

(#) = qualifier out of range (m) = manual integration
 0701007.D 013015RC.M Thu Feb 05 23:32:59 2015

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015\0701007.D Vial: 7
 Acq On : 30 Jan 2015 4:56 pm Operator: gjd
 Sample : 100ppb 8260 ical Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:07:30 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.69	166	740834	58.00	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.49	131	617989	55.67	ppb	99
52) Chlorobenzene*	5.45	112	1879123	51.75	ppb	96
53) Ethyl Benzene*	5.46	91	3515882	47.45	ppb	98
54) m,p-Xylene	5.55	91	5210017	93.34	ppb	99
55) Bromoform	5.94	173	426490	68.18	ppb #	99
56) Styrene	5.91	104	2249763	57.39	ppb	98
57) 1,1,2,2-Tetrachloroethane	6.47	85	632547	58.94	ppb	99
58) o-Xylene*	5.87	106	1313336	56.11	ppb	97
59) trans-1,4-Dichloro-2-buten	6.61	53	306892	60.50	ppb	100
60) 1,2,3-Trichloropropane	6.59	75	1043333m	516.24	ppb	
61) Isopropylbenzene	6.10	105	3292697	54.44	ppb	98
63) Bromobenzene	6.42	156	723235	61.52	ppb	87
64) N-Propylbenzene*	6.42	91	4419635	50.00	ppb	98
65) 2-Chlorotoluene	6.55	91	2840018	52.31	ppb	96
66) 4-Chlorotoluene	6.69	126	692516	57.79	ppb	93
68) 1,3,5-Trimethylbenzene	6.57	105	2525180	101.36	ppb	99
69) tert-butylbenzene	6.83	119	2566416	107.02	ppb	96
70) 1,2,4-Trimethylbenzene	6.89	105	2476971	102.82	ppb	99
71) sec-Butylbenzene	6.97	105	3498171	100.29	ppb	99
72) 1,3-Dichlorobenzene	7.24	146	1195654	107.15	ppb	99
73) 1,4-Dichlorobenzene	7.24	148	764909	106.91	ppb	98
74) p-Isopropyltoluene	7.09	119	2520017	105.68	ppb	99
75) 1,2-Dichlorobenzene	7.59	146	1194330	113.08	ppb	99
76) N-Butylbenzene	7.44	91	3354003	106.81	ppb	98
77) 1,2-Dibromo-3-chloropropan	8.28	155	83008	122.27	ppb	99
78) 1,2,4-Trichlorobenzene	8.87	180	704748	138.29	ppb	99
79) Naphthalene	9.17	128	1079059	134.73	ppb	100
80) Hexachloro-1,3-butadiene	8.84	225	514857	135.17	ppb	99
81) 1,2,3-Trichlorobenzene	9.34	180	587039	138.82	ppb	99
82) 1-Methylnaphthalene	10.27	142	265602m	98.09	ppb	
83) 2-Methylnaphthalene	10.13	142	380404m	221.71	ppb	

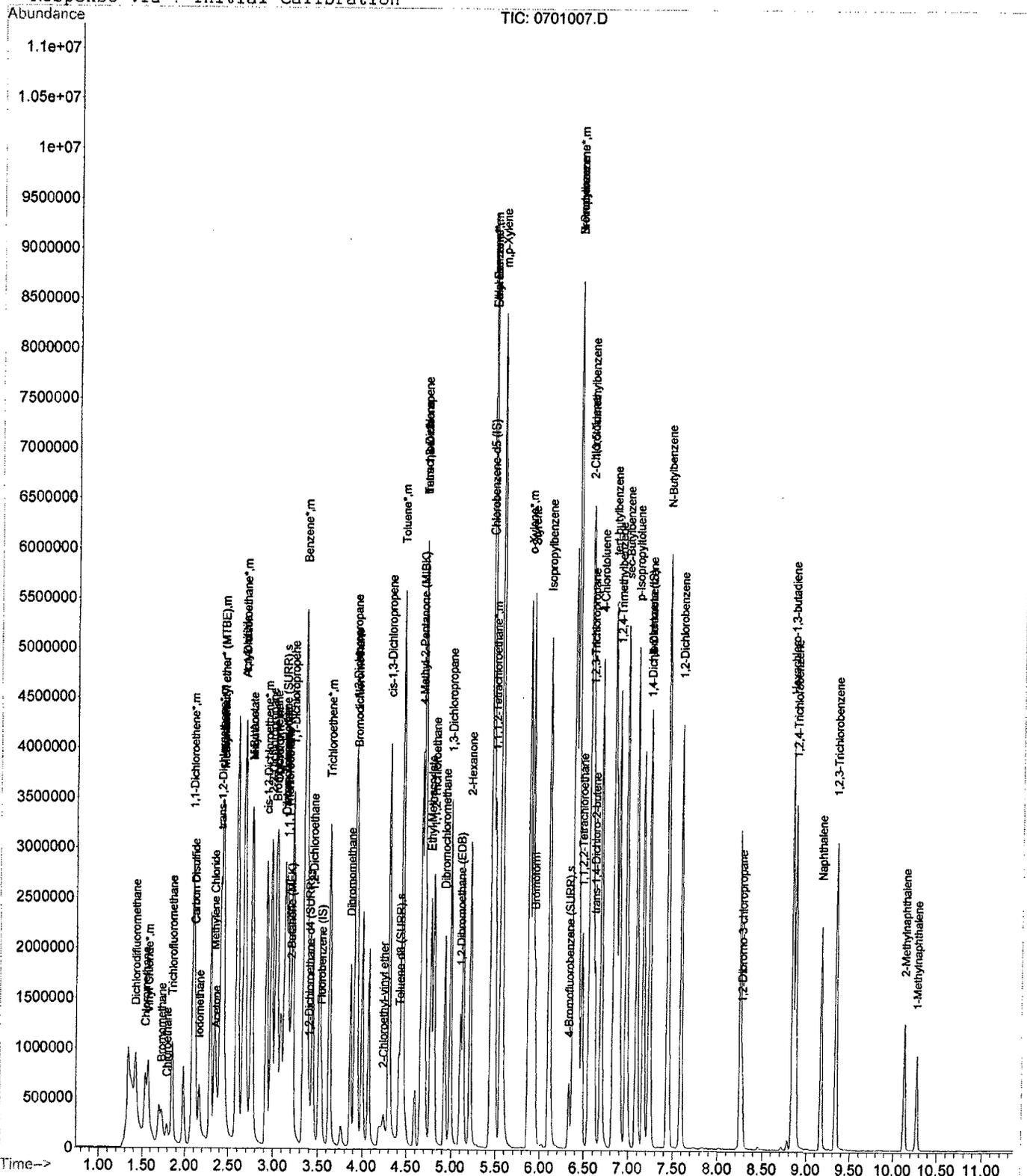
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\0701007.D
 Acq On : 30 Jan 2015 4:56 pm
 Sample : 100ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:34 2015

Vial: 7
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0901009.D
 Acq On : 30 Jan 2015 5:33 pm
 Sample : 200ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 9
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:07:54 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.54	96	423359	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.44	117	281364	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.23	152	102827	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.14	113	108481	44.25	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	88.50%
27) 1,2-Dichloroethane-d4 (SUR)	3.40	65	152694	51.35	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.70%
42) Toluene-d8 (SURR)	4.42	98	449441	52.87	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	105.74%
62) 4-Bromofluorobenzene (SURR)	6.33	95	182942	26.03	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	52.06%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.43	85	1862377	229.86	ppb	100
3) Chloromethane	1.54	50	1895690	224.67	ppb	# 95
4) Vinyl Chloride*	1.57	62	1587226	230.99	ppb	100
5) Bromomethane	1.73	94	346553	201.64	ppb	99
6) Chloroethane	1.79	64	314490	135.58	ppb	91
7) Acrolein	2.43	56	1038451	193.23	ppb	99
8) Trichlorofluoromethane	1.85	101	962418	134.87	ppb	99
9) Acetone	2.36	43	705323	420.03	ppb	# 94
10) 1,1-Dichloroethene*	2.08	61	1803331	190.93	ppb	100
11) Acrylonitrile	2.67	53	2595748	167.93	ppb	99
12) Iodomethane	2.16	142	1239414	235.87	ppb	99
13) Methylene Chloride	2.34	84	1009153	163.15	ppb	80
14) Carbon Disulfide	2.11	76	2605959	192.27	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	872384	197.08	ppb	99
16) Methyl-tert-butyl ether* (	2.45	73	2333020	195.54	ppb	93
17) 1,1-Dichloroethane*	2.68	63	2842153	174.51	ppb	99
18) Vinyl Acetate	2.76	43	1032038	186.87	ppb	# 100
19) N-Hexane	2.43	57	2008530	187.48	ppb	97
20) N-Butanol	2.76	57	1289995	182.33	ppb	# 99
21) 2-Butanone (MEK)	3.19	43	1618510	438.99	ppb	99
22) cis-1,2-Dichloroethene*	2.93	61	2527179	194.36	ppb	99
23) Bromochloromethane	3.02	128	593220	197.00	ppb	81
24) Chloroform*	3.04	83	2552295	176.95	ppb	100
25) 2-2-Dichloropropane	2.98	77	2421133	197.53	ppb	97
28) 1,2-Dichloroethane	3.44	62	2073992	195.50	ppb	94
29) 1,1,1-Trichloroethane*	3.16	97	2010933	183.32	ppb	97
30) 1,1-Dichloropropene	3.22	75	1898642	176.66	ppb	99
31) Carbon Tetrachloride	3.13	117	1967142	195.26	ppb	98
32) Benzene*	3.34	78	4926541	167.65	ppb	98
33) Dibromomethane	3.87	93	1026801	198.28	ppb	95
34) 1,2-Dichloropropane	3.92	63	1597258	171.14	ppb	93
35) Trichloroethene*	3.63	95	1468253	182.74	ppb	96
36) Bromodichloromethane	3.94	83	2063391	182.60	ppb	99
37) 2-Chloroethyl-vinyl ether	4.24	63	93463	664.63	ppb	93
38) cis-1,3-Dichloropropene	4.30	75	2642395	195.59	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.67	43	4383408	456.69	ppb	98
40) trans-1,3-Dichloropene	4.70	75	1764302	164.91	ppb	94
41) 1,1,2-Trichloroethane	4.81	83	1052136	182.68	ppb	96
43) Toluene*	4.45	91	5642755	181.48	ppb	100
44) Ethyl Methacrylate	4.77	69	1453149	192.74	ppb	95
45) 1,3-Dichloropropane	4.99	76	2081303	189.05	ppb	100
46) 2-Hexanone	5.22	43	3645349	504.64	ppb	99
48) Dibromochloromethane	4.93	129	1374261	112.22	ppb	100
49) 1,2-Dibromoethane (EDB)	5.10	107	1253084	110.57	ppb	100

(#) = qualifier out of range (m) = manual integration
 0901009.D 013015RC.M Thu Feb 05 23:33:05 2015 GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\0901009.D
 Acq On : 30 Jan 2015 5:33 pm
 Sample : 200ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 9
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sat Jan 31 14:07:54 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.70	166	1180059	96.19	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.49	131	1030792	96.83	ppb	97
52) Chlorobenzene*	5.45	112	2799572	80.61	ppb	94
53) Ethyl Benzene*	5.46	91	5128038	72.56	ppb	96
54) m,p-Xylene	5.56	91	7019983	131.90	ppb	98
55) Bromoform	5.94	173	717057	118.58	ppb	100
56) Styrene	5.92	104	3338107	88.69	ppb	98
57) 1,1,2,2-Tetrachloroethane	6.48	85	995538	96.54	ppb	99
58) o-Xylene*	5.88	106	2109307	93.95	ppb	94
59) trans-1,4-Dichloro-2-buten	6.62	53	474059	97.16	ppb	97
60) 1,2,3-Trichloropropane	6.59	75	1505181m	778.79	ppb	
61) Isopropylbenzene	6.11	105	5148290	88.83	ppb	97
63) Bromobenzene	6.42	156	1065879	94.19	ppb	79
64) N-Propylbenzene*	6.43	91	5879917	69.62	ppb	96
65) 2-Chlorotoluene	6.56	91	3902977	75.12	ppb	92
66) 4-Chlorotoluene	6.69	126	1089767	94.71	ppb	85
68) 1,3,5-Trimethylbenzene	6.58	105	3527086	166.39	ppb	98
69) tert-butylbenzene	6.84	119	3768461	184.69	ppb	94
70) 1,2,4-Trimethylbenzene	6.89	105	3595344	175.40	ppb	97
71) sec-Butylbenzene	6.98	105	5067924	170.75	ppb	97
72) 1,3-Dichlorobenzene	7.25	146	1837599	193.54	ppb	97
73) 1,4-Dichlorobenzene	7.25	148	1192161	195.83	ppb	95
74) p-Isopropyltoluene	7.09	119	3725516	183.61	ppb	97
75) 1,2-Dichlorobenzene	7.60	146	1964457	218.60	ppb	98
76) N-Butylbenzene	7.44	91	4893195	183.14	ppb	97
77) 1,2-Dibromo-3-chloropropan	8.28	155	165803	287.02	ppb	94
78) 1,2,4-Trichlorobenzene	8.88	180	1345579	310.32	ppb	98
79) Naphthalene	9.17	128	2223822	326.33	ppb	100
80) Hexachloro-1,3-butadiene	8.84	225	1057721	326.36	ppb	99
81) 1,2,3-Trichlorobenzene	9.34	180	1229678	341.74	ppb	98
82) 1-Methylnaphthalene	10.27	142	627791m	272.48	ppb	
83) 2-Methylnaphthalene	10.13	142	921387m	631.11	ppb	

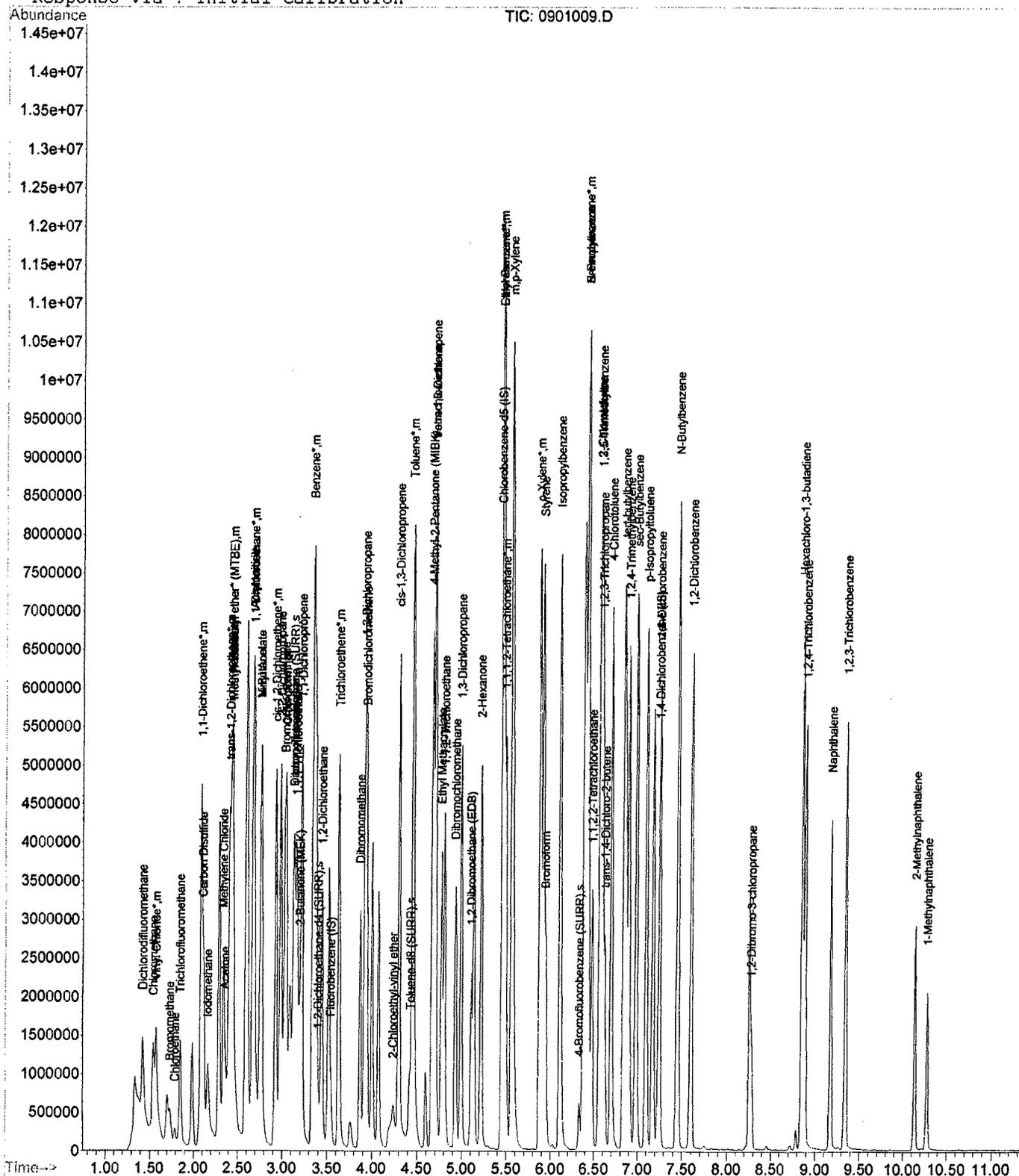
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\0901009.D
 Acq On : 30 Jan 2015 5:33 pm
 Sample : 200ppb 8260 ical
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:35 2015

Vial: 9
 Operator: gjd
 Inst: VOC 1
 Multiplr: 1.00

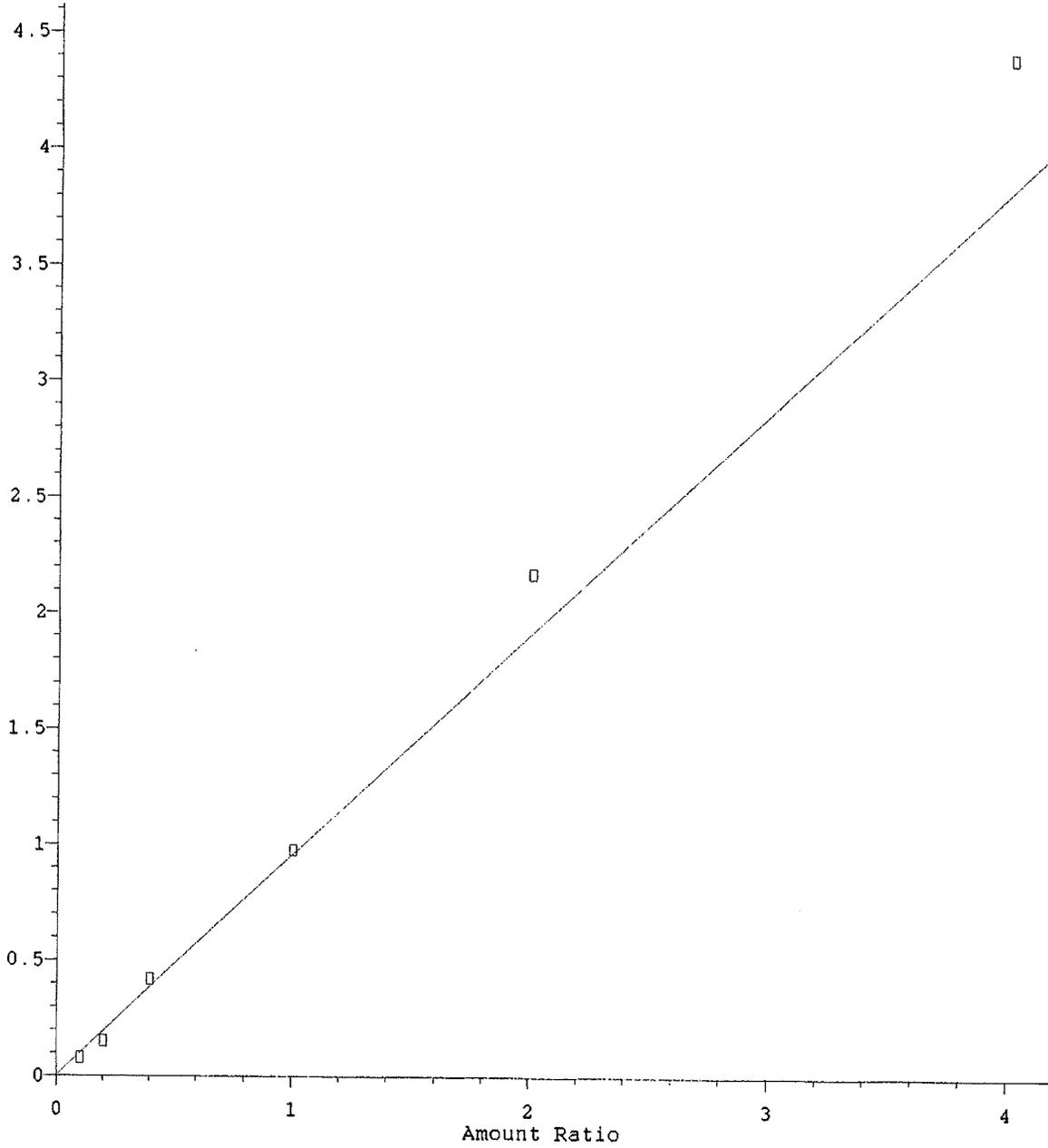
Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



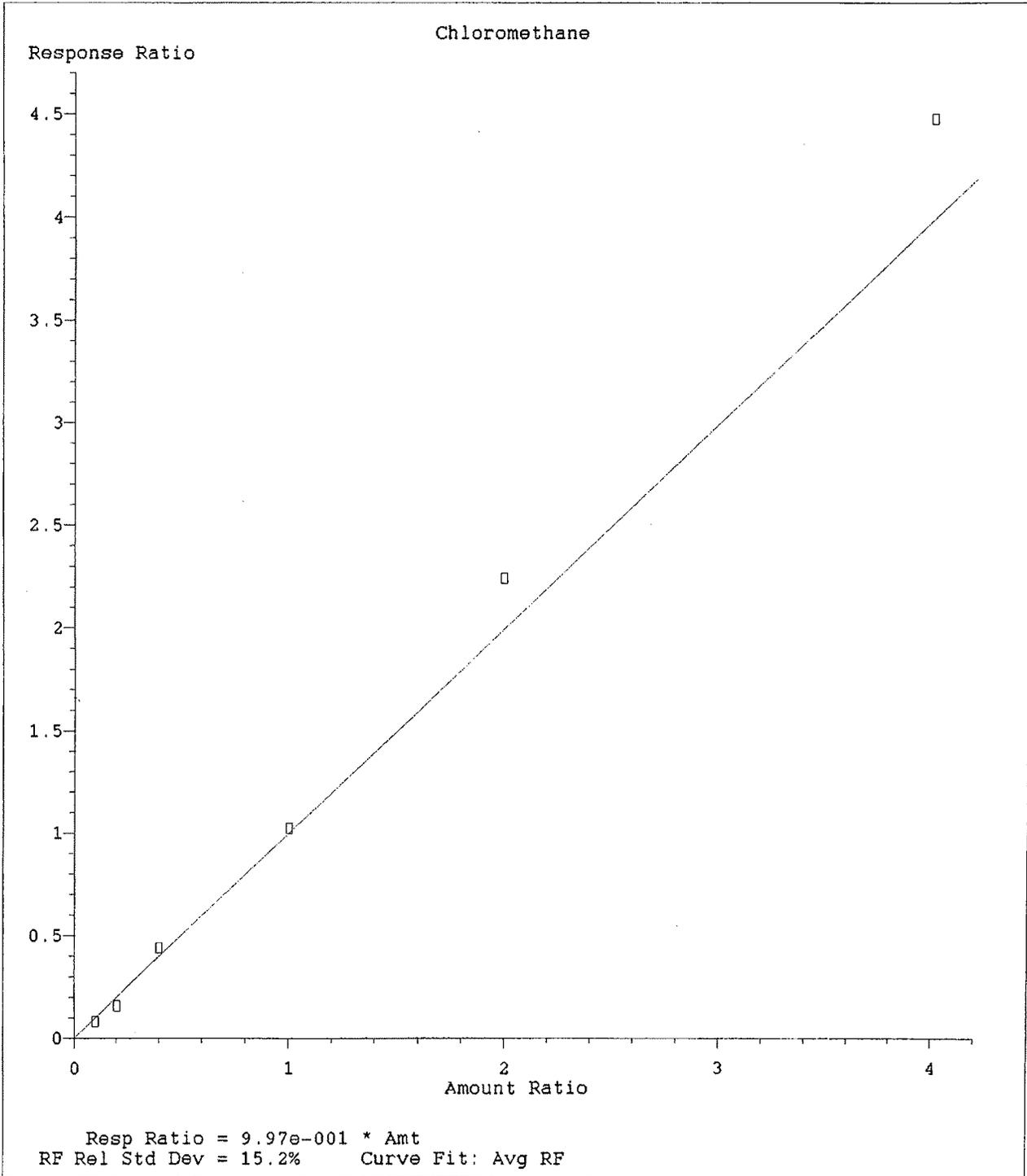
Dichlorodifluoromethane

Response Ratio

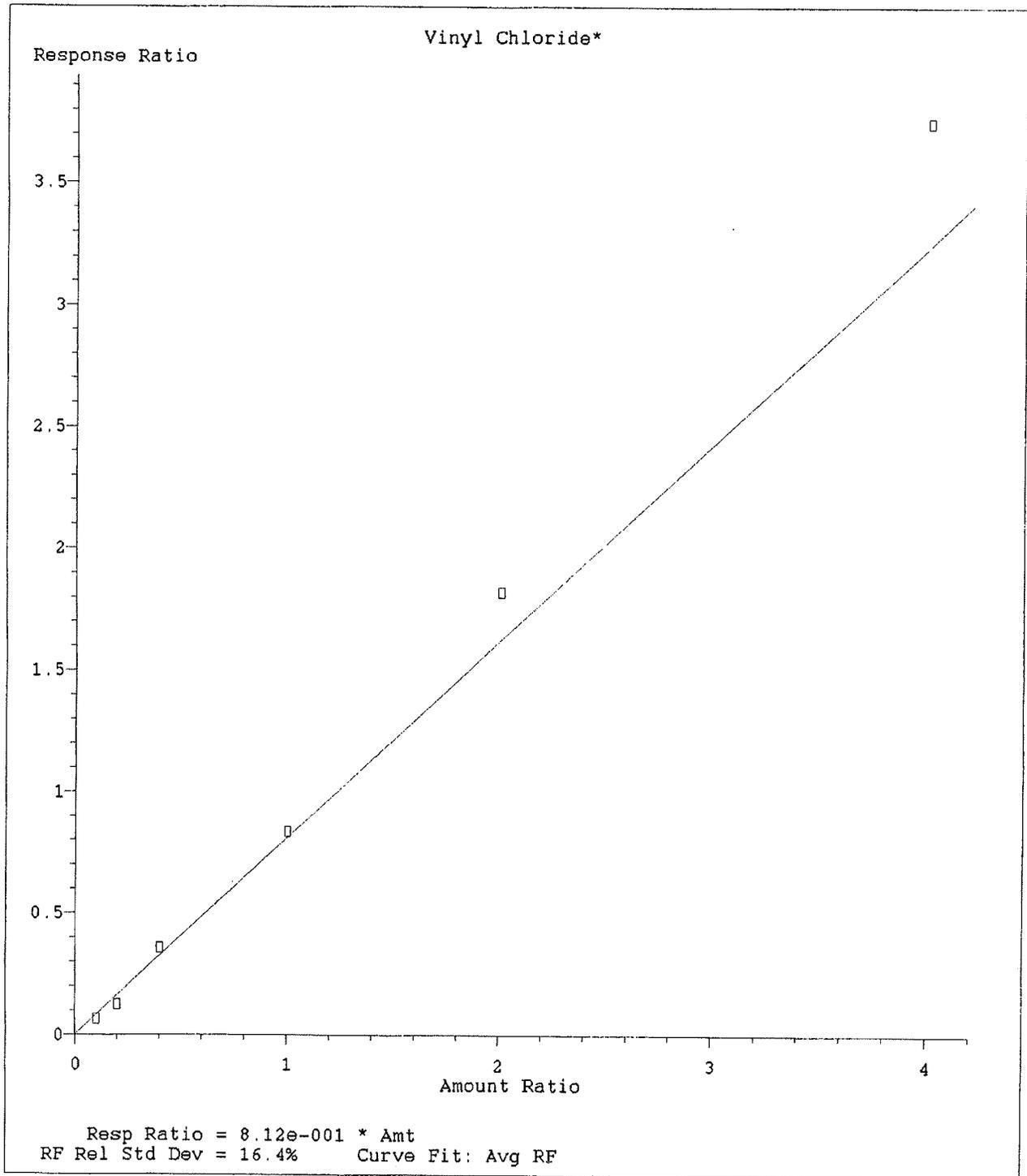


Resp Ratio = $9.57e-001$ * Amt
RF Rel Std Dev = 15.9% Curve Fit: Avg RF

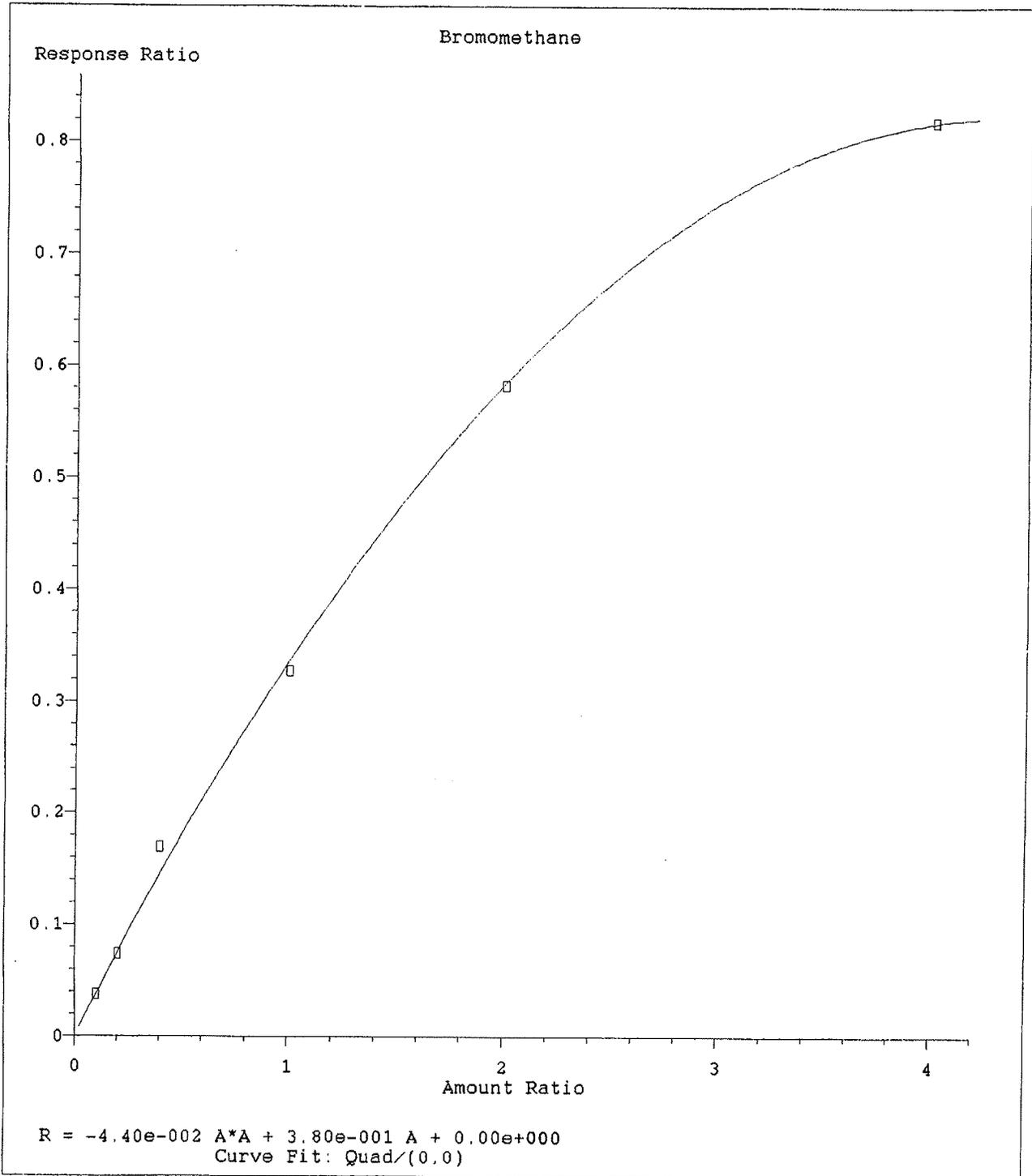
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



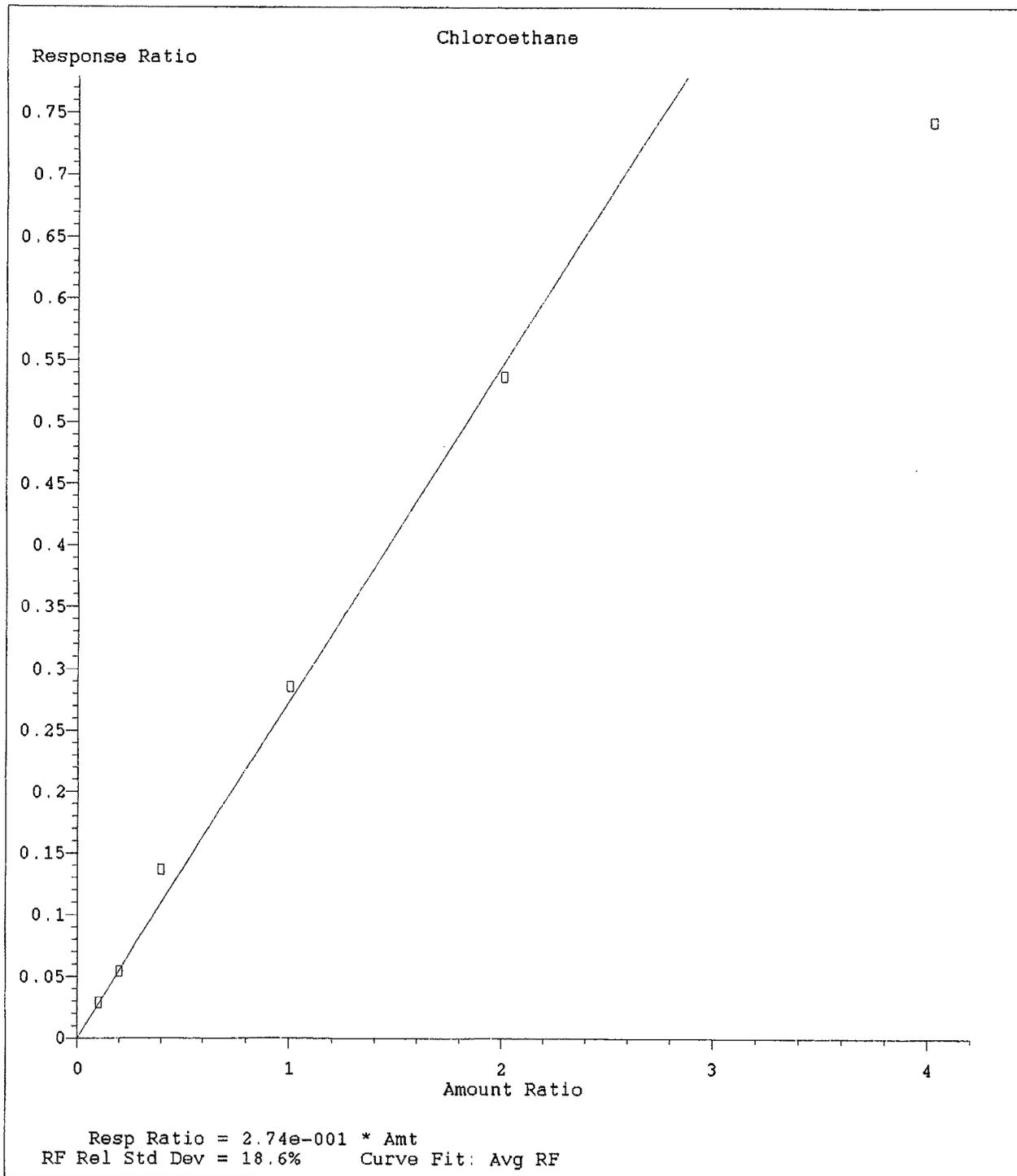
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



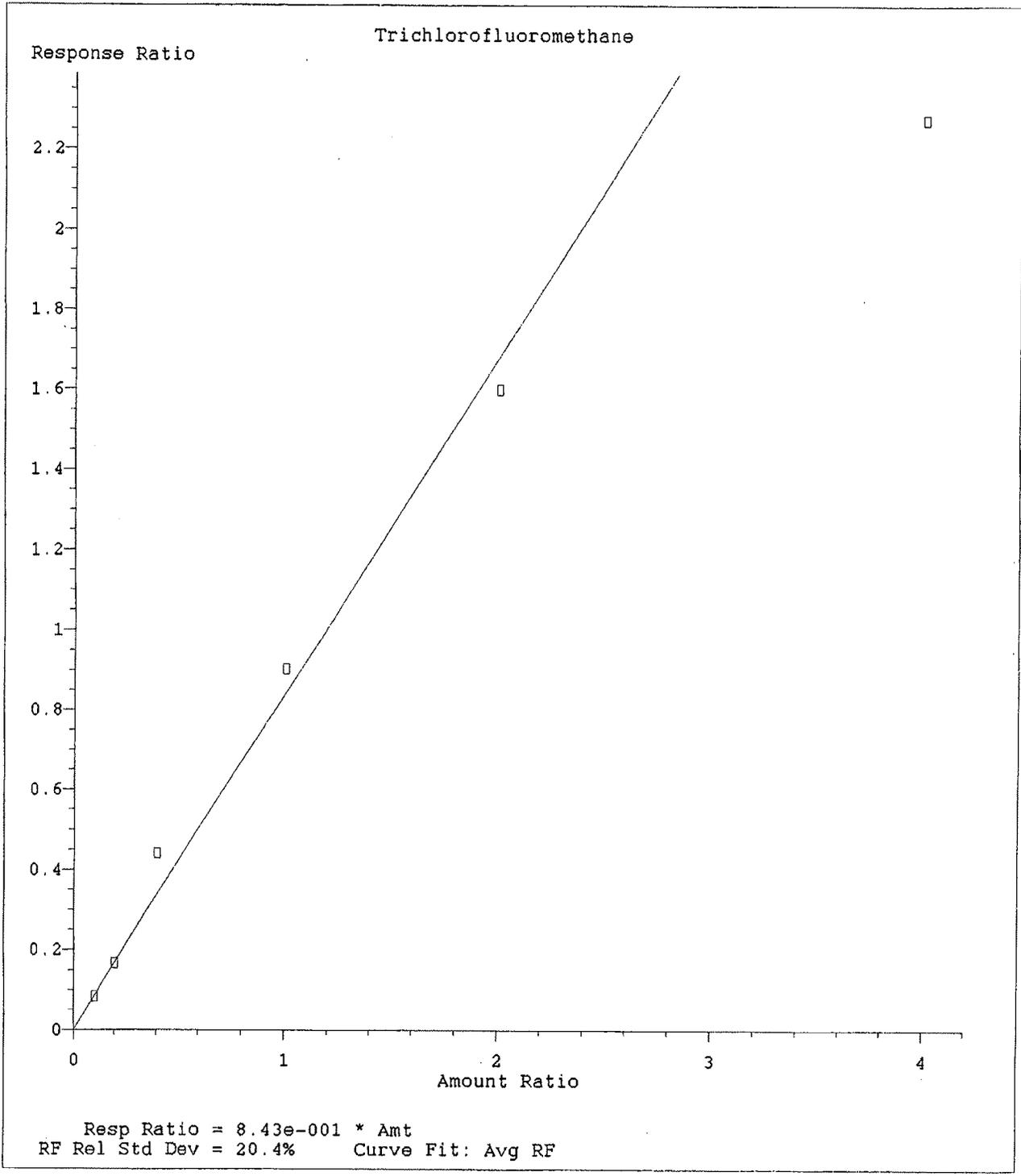
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 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



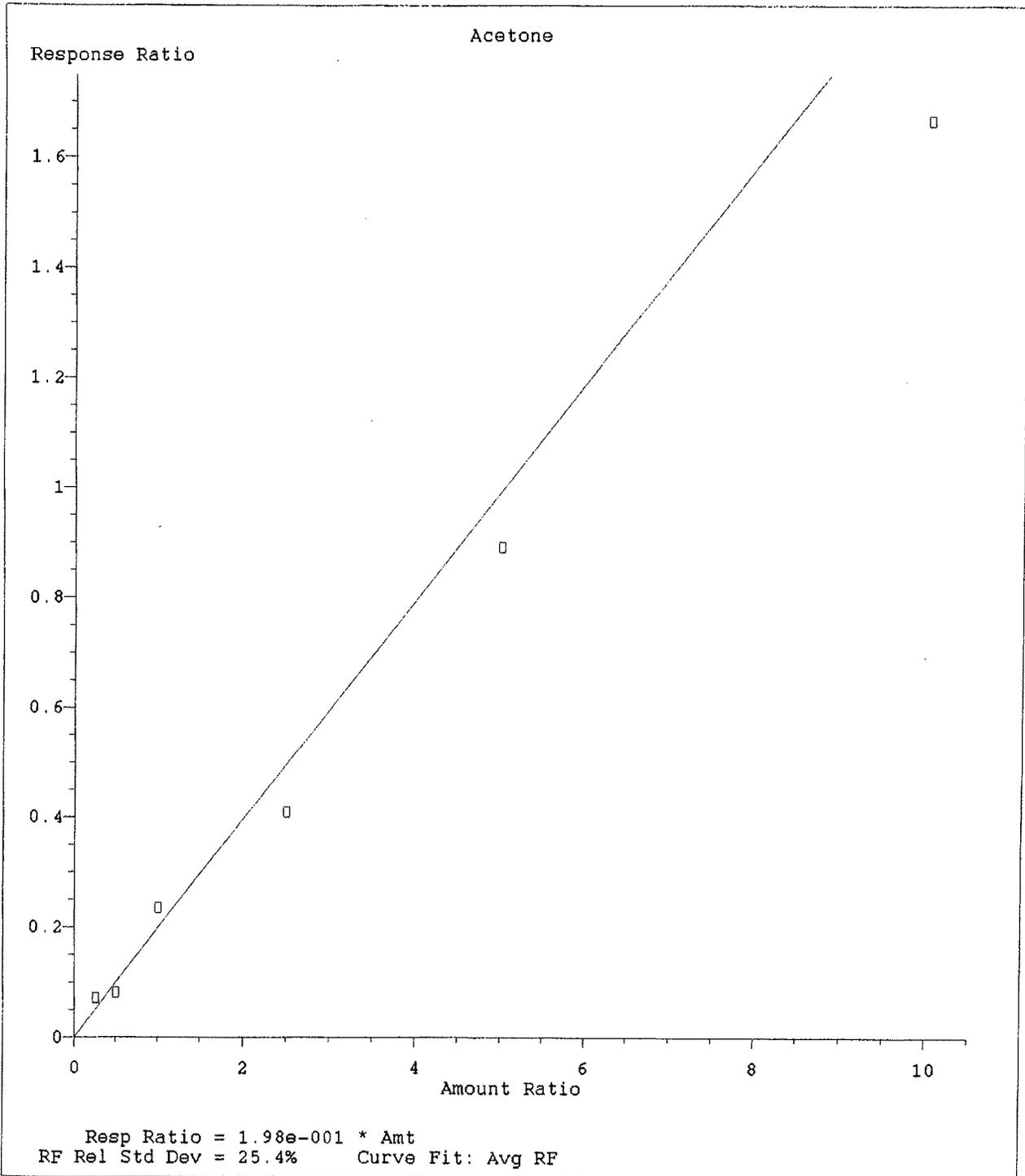
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



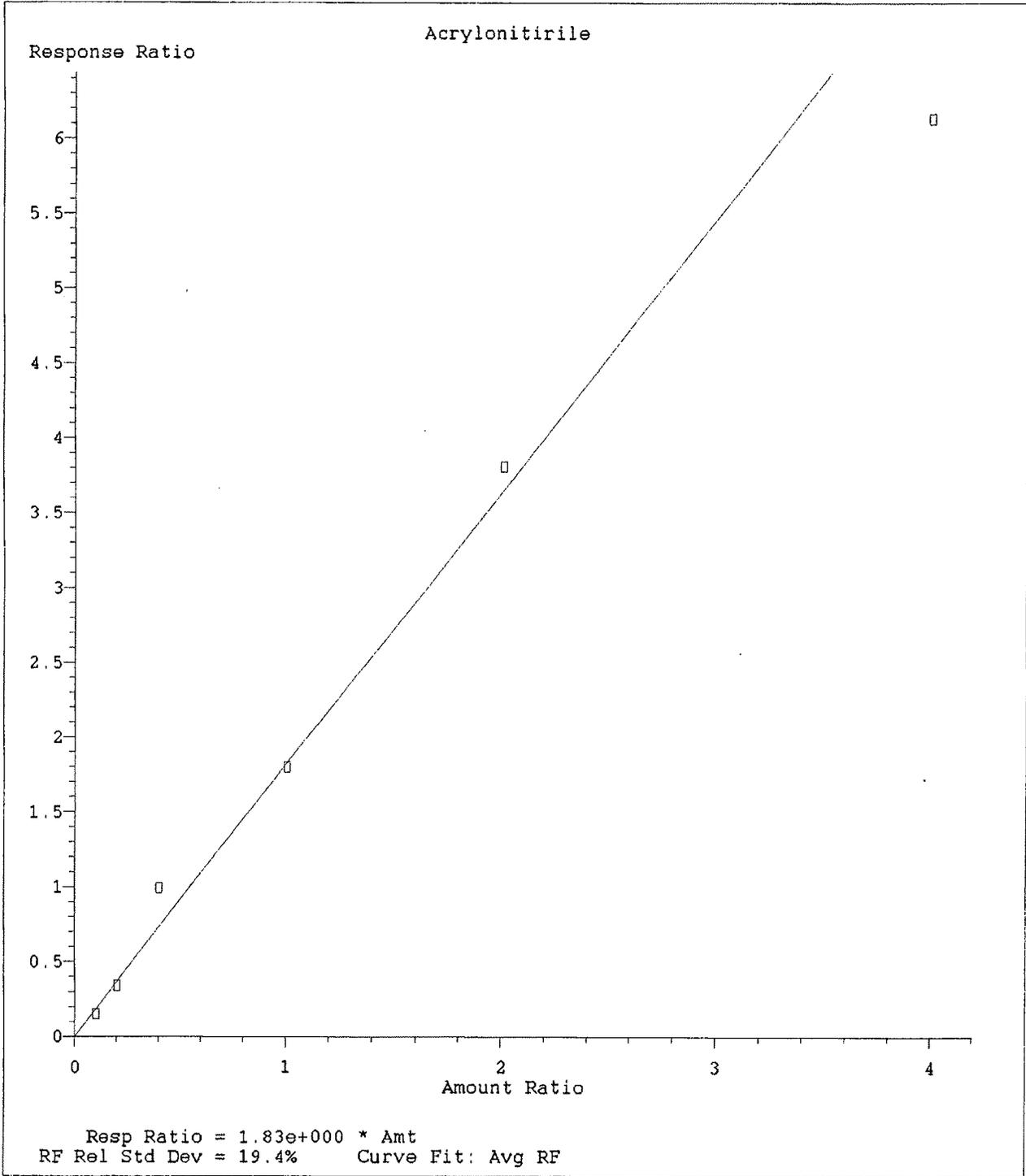
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



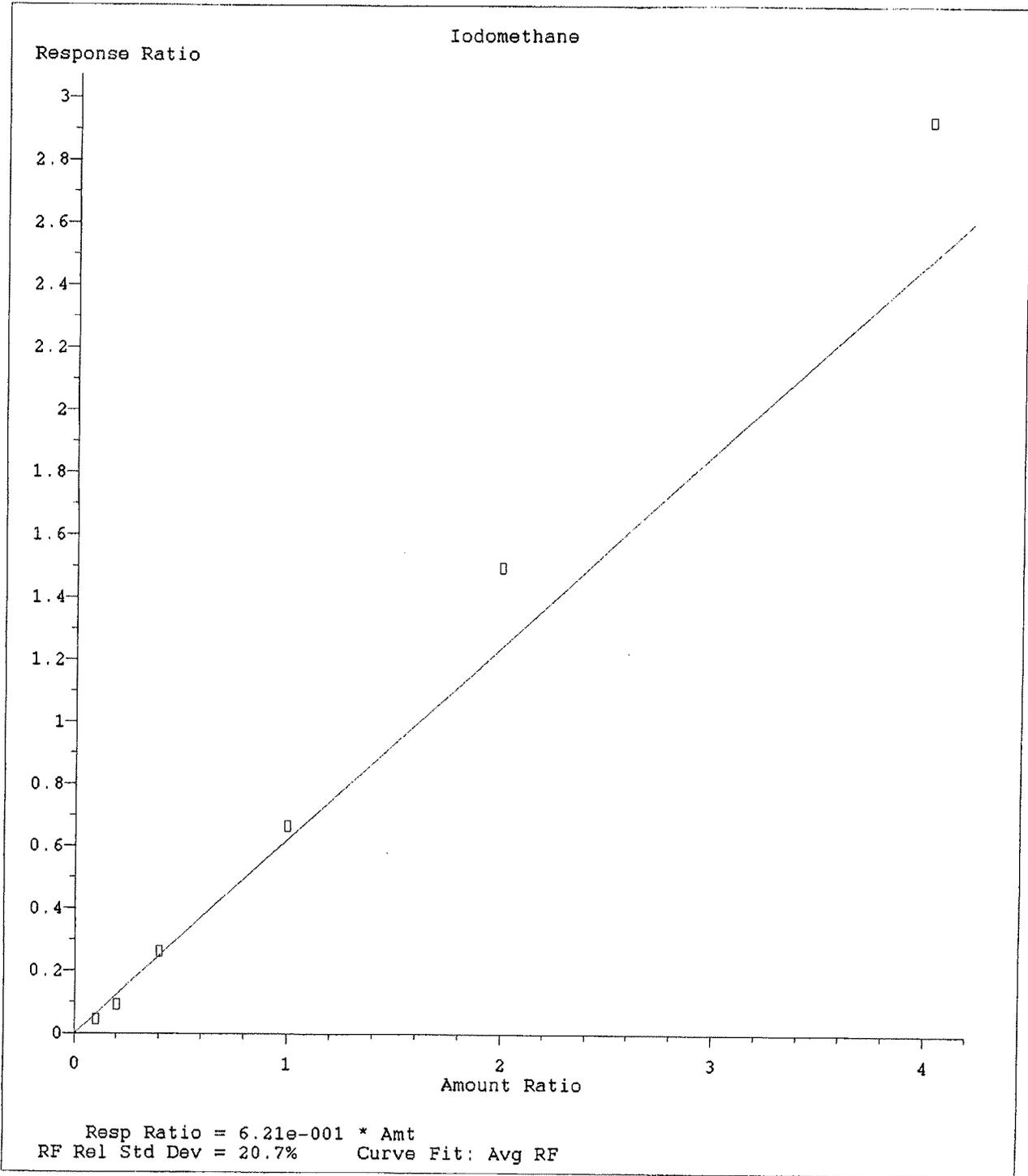
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



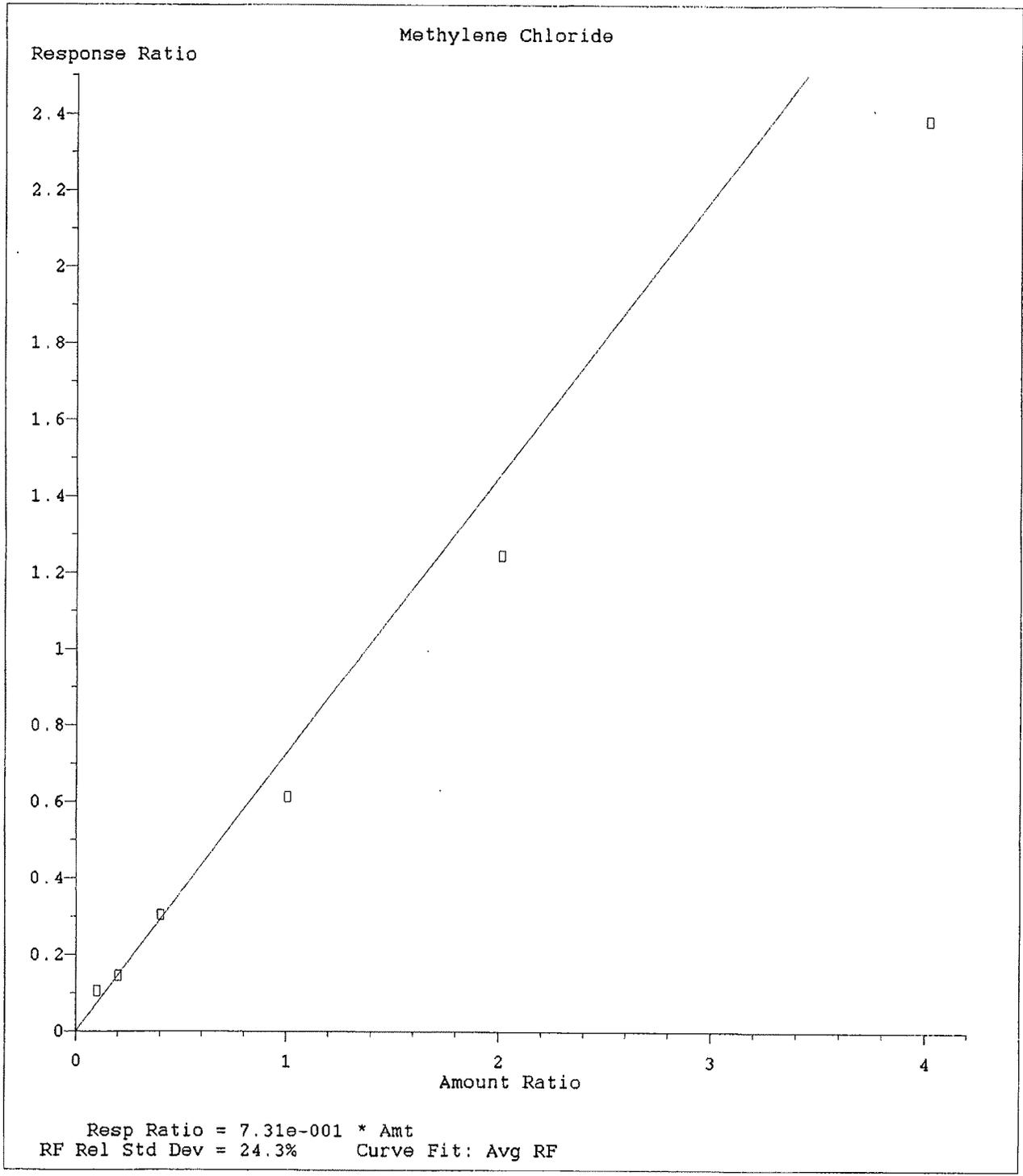
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



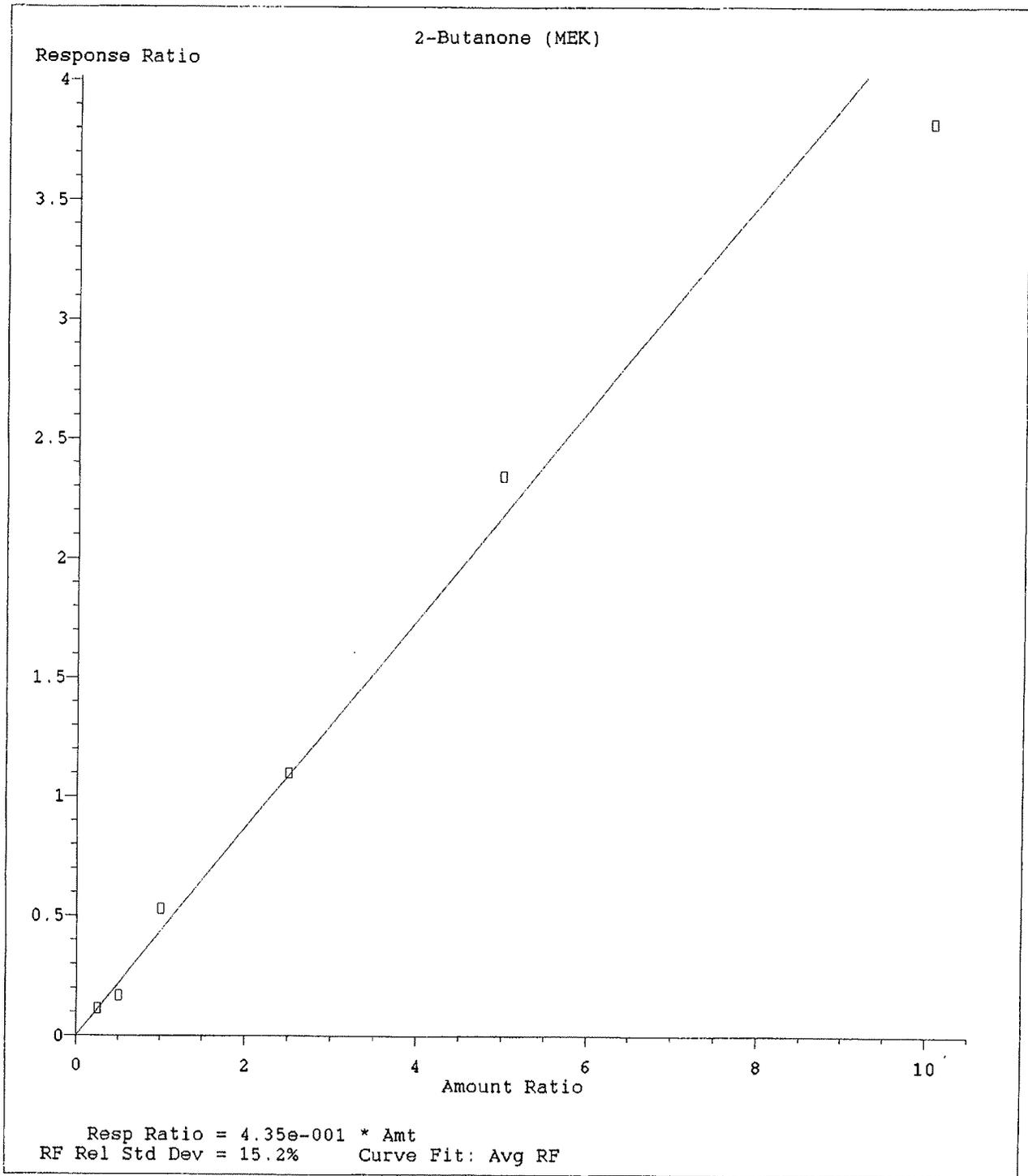
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



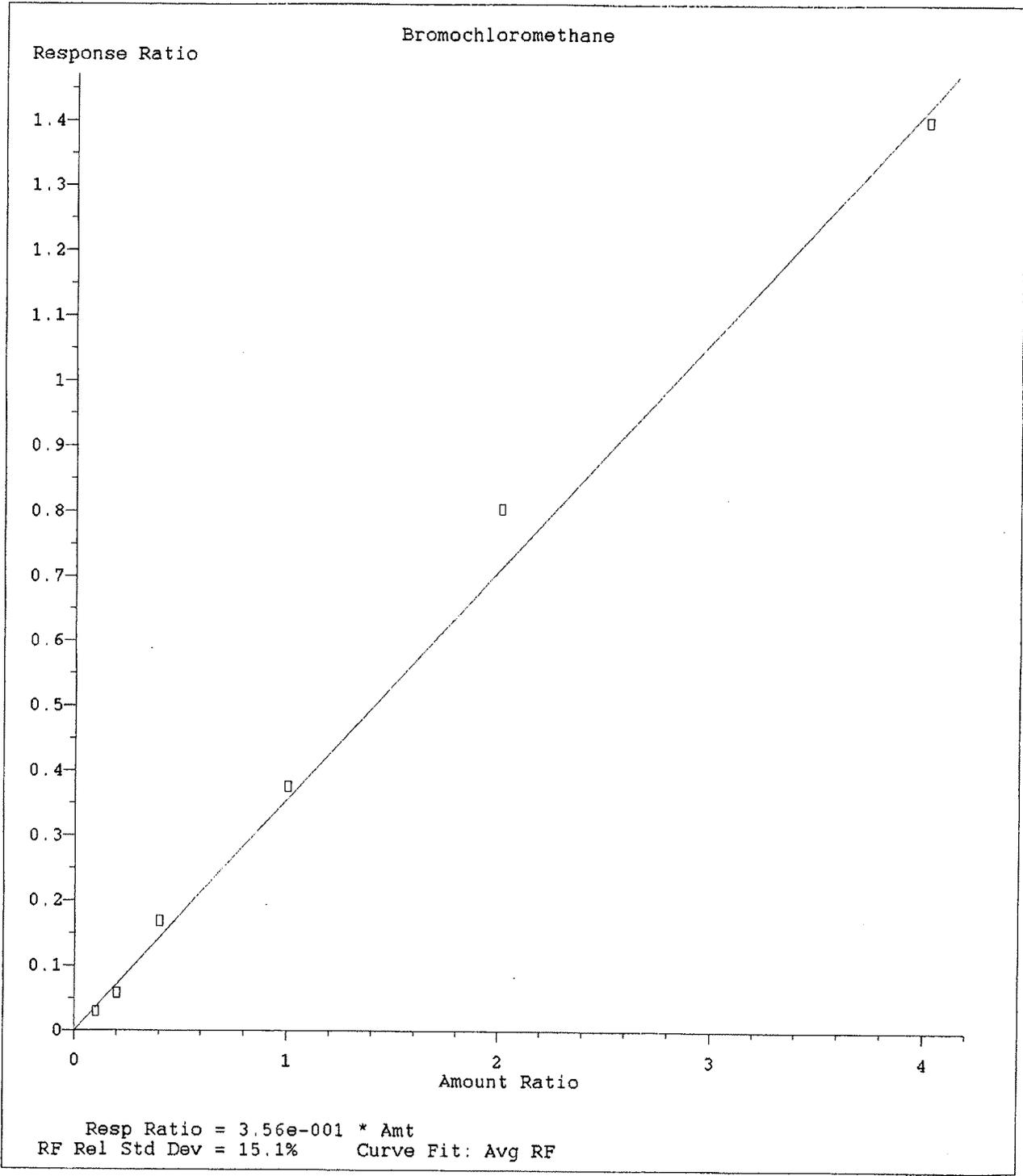
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



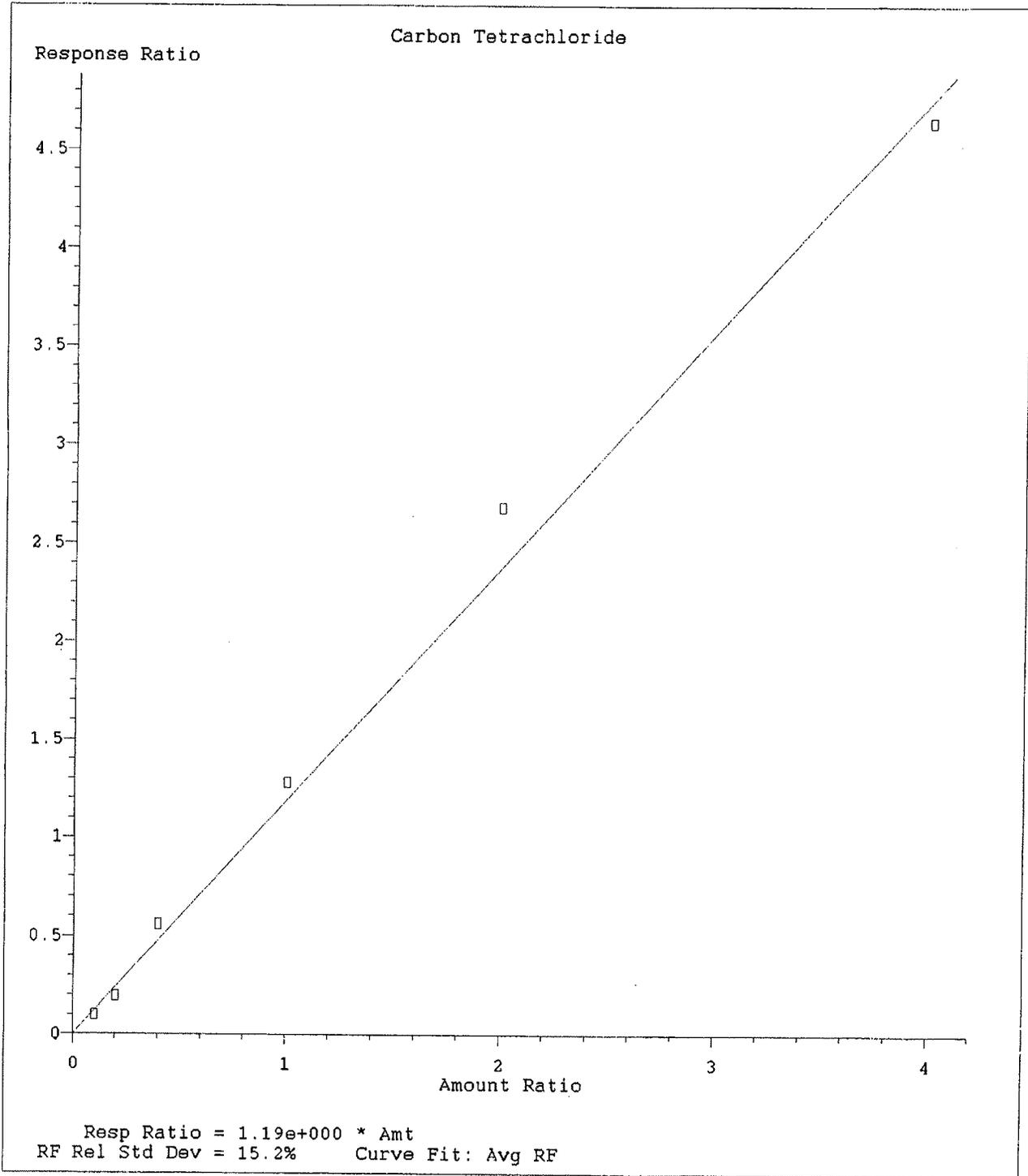
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



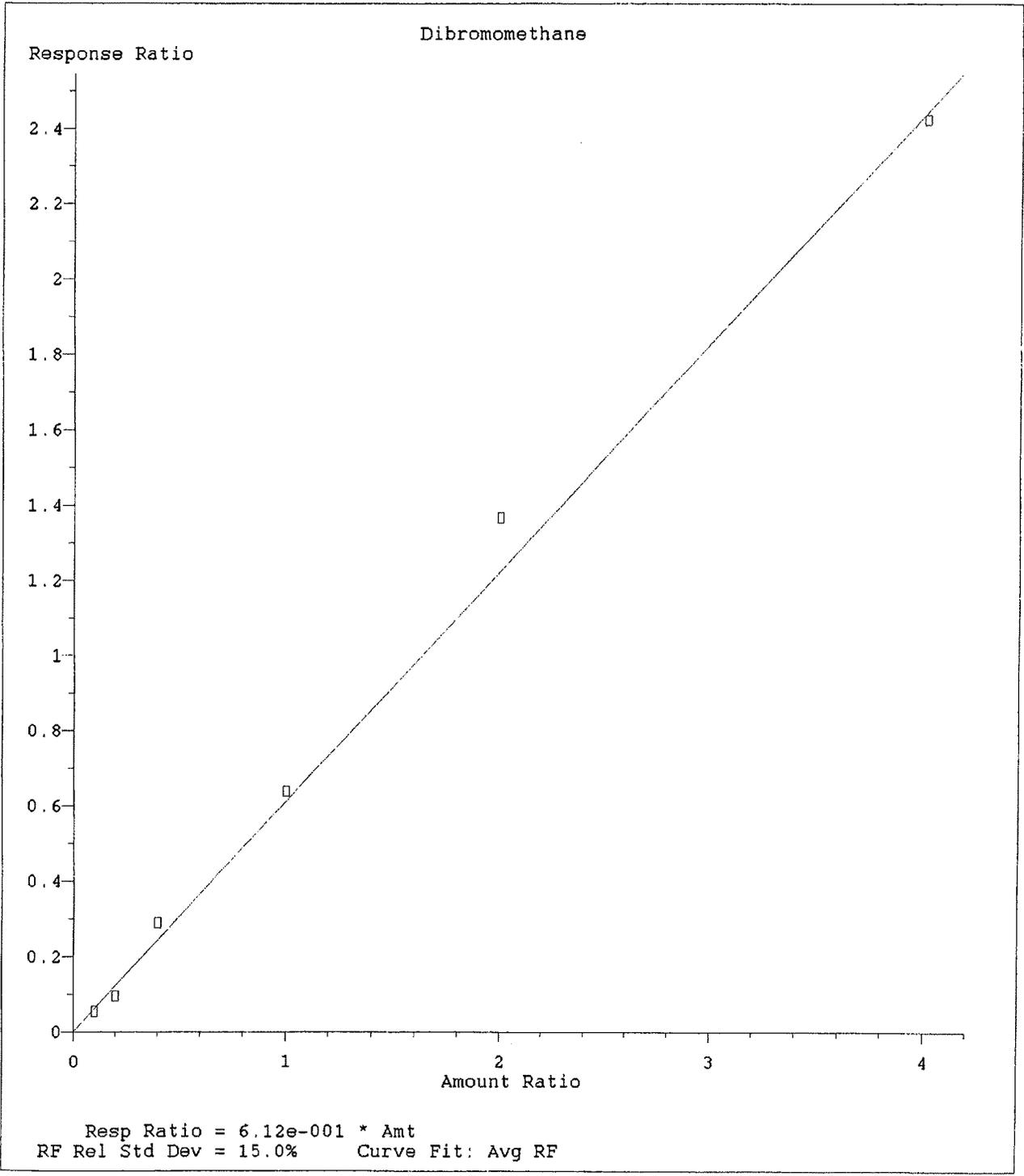
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



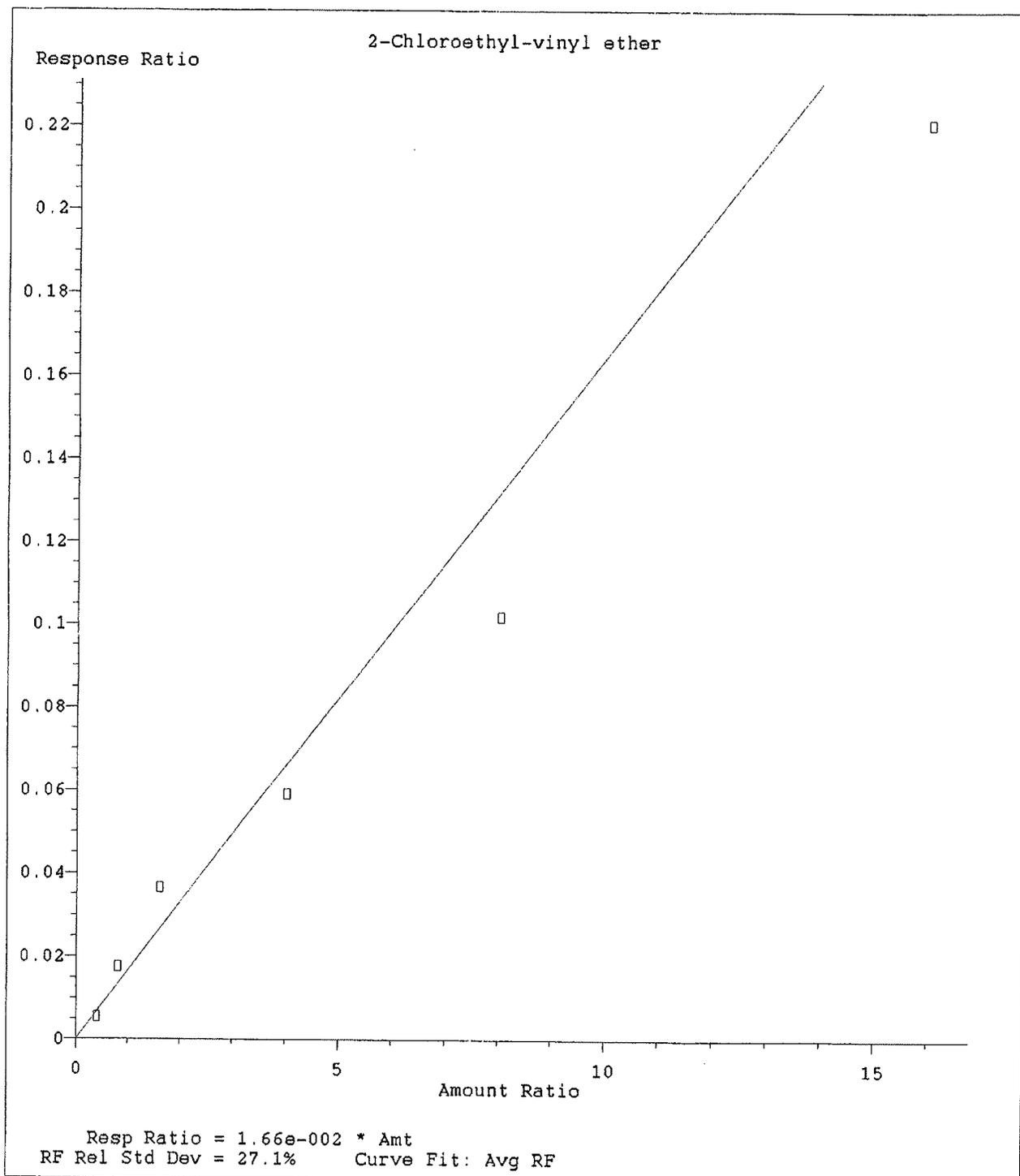
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



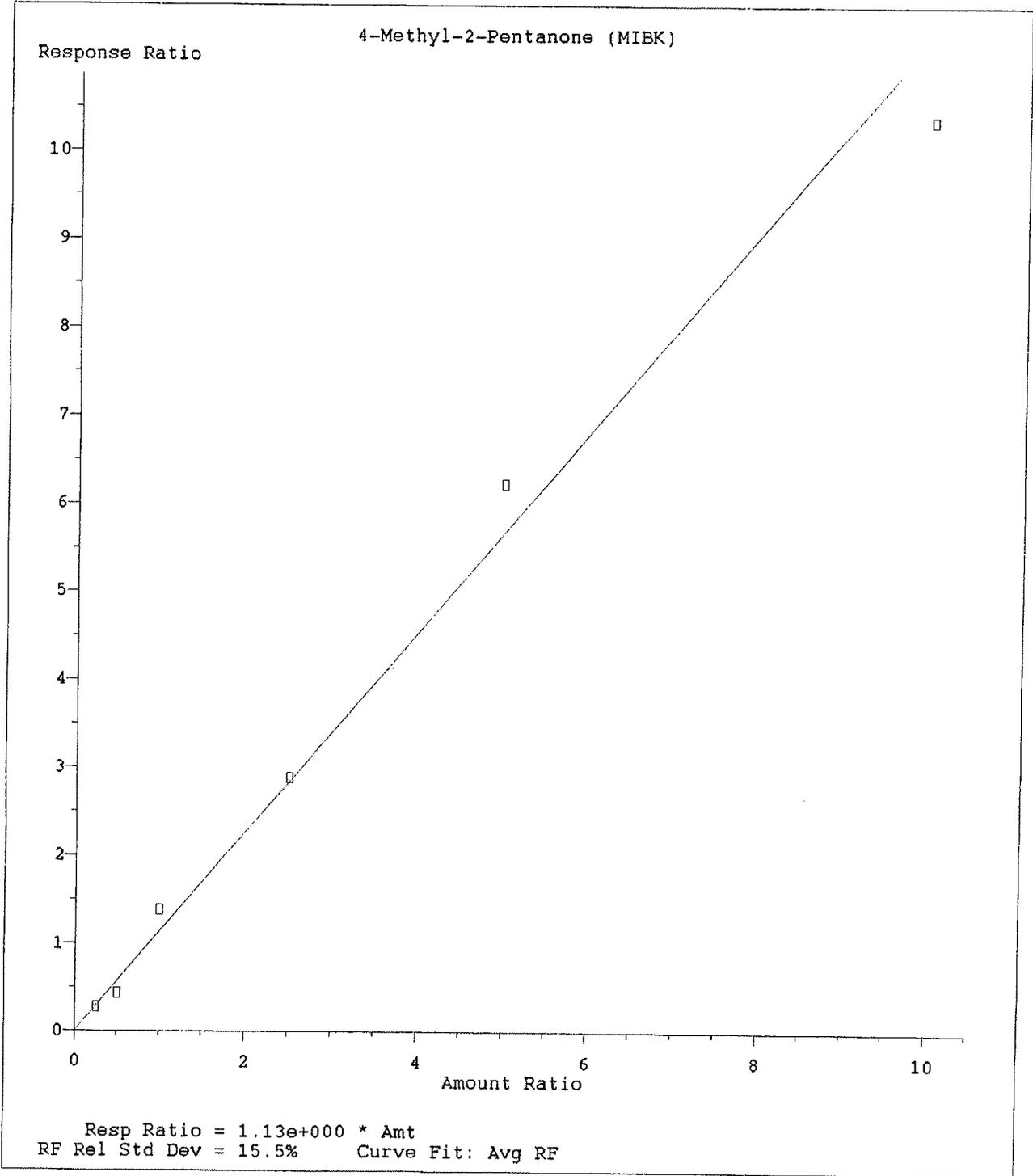
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



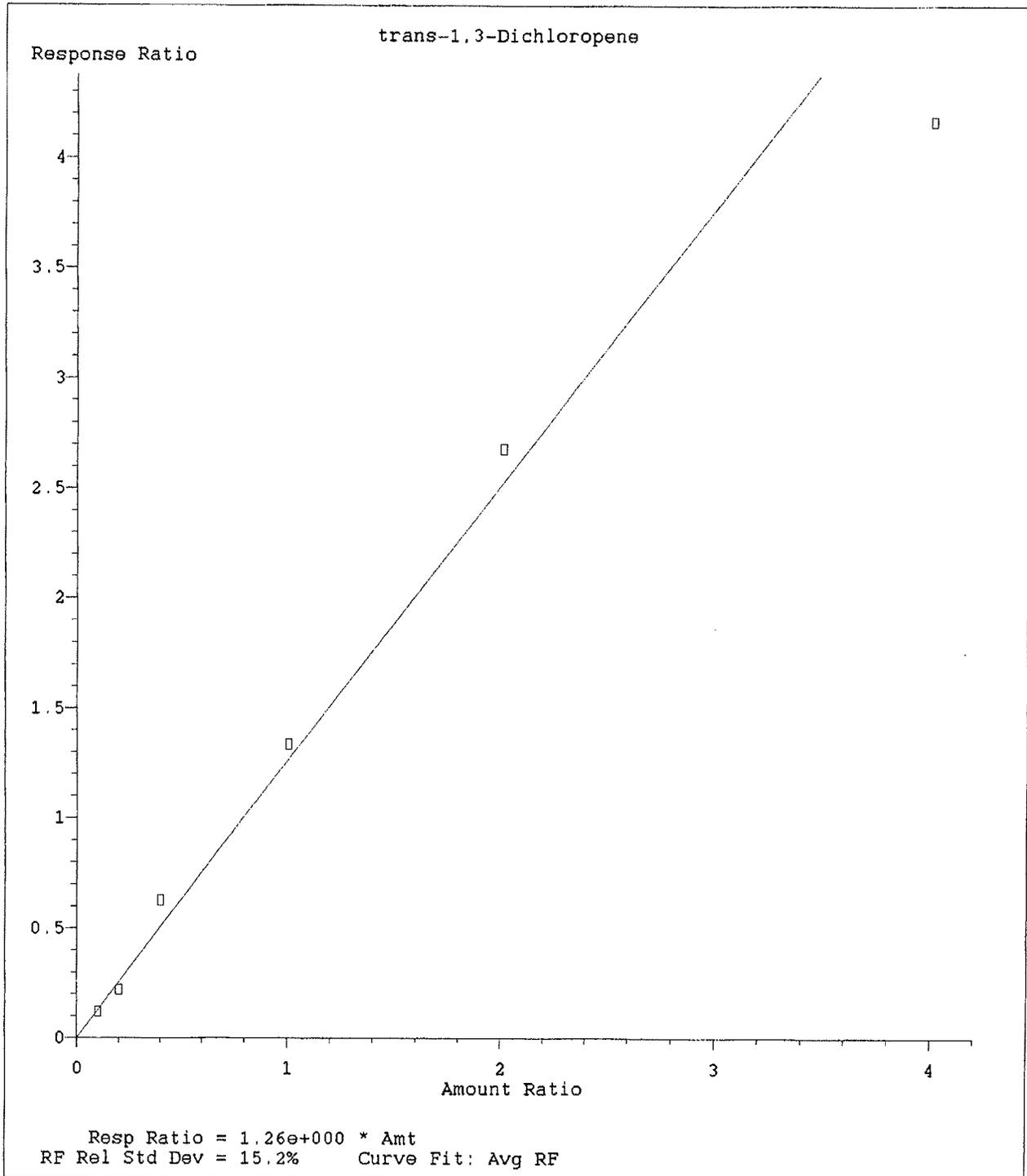
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



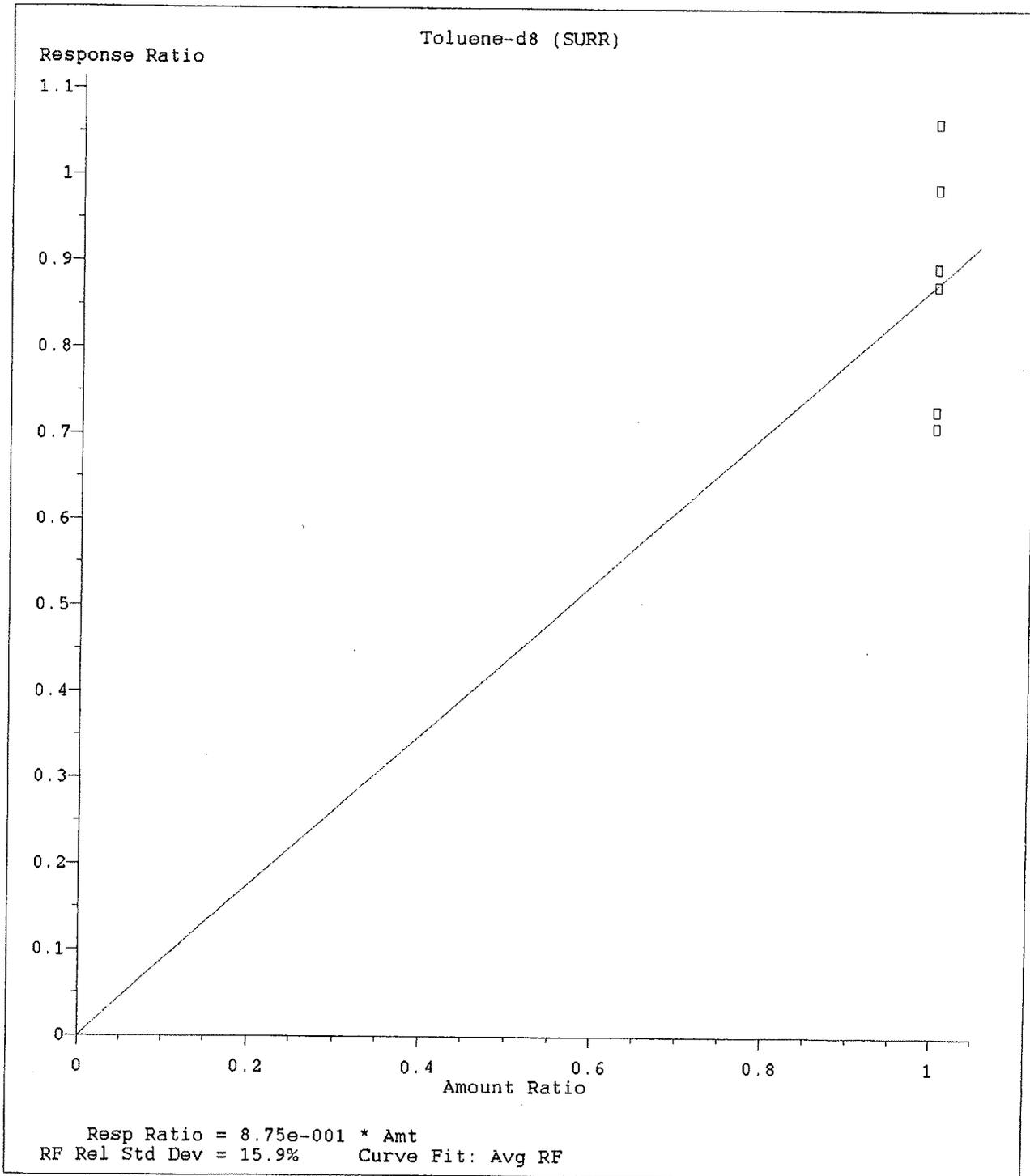
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



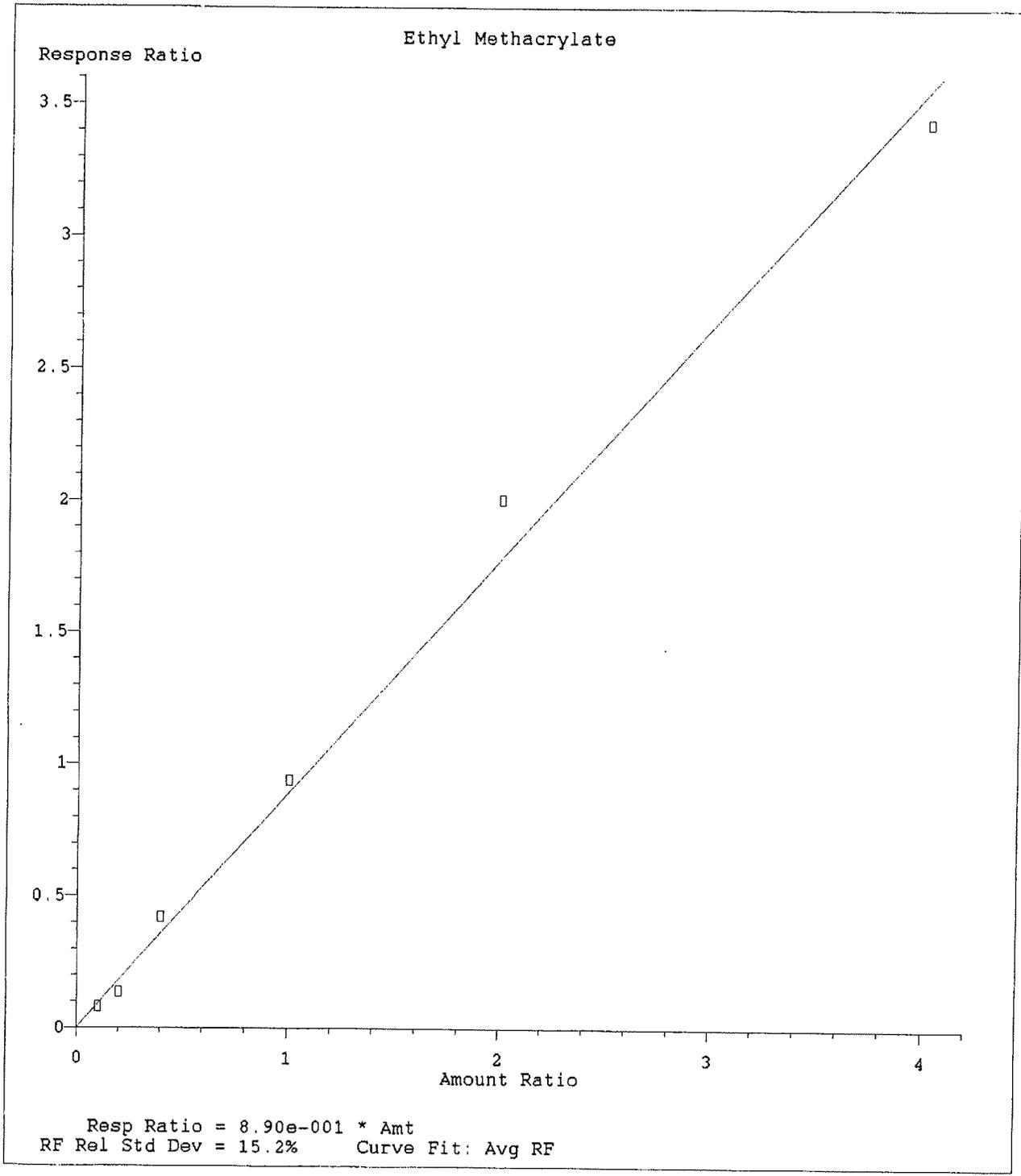
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



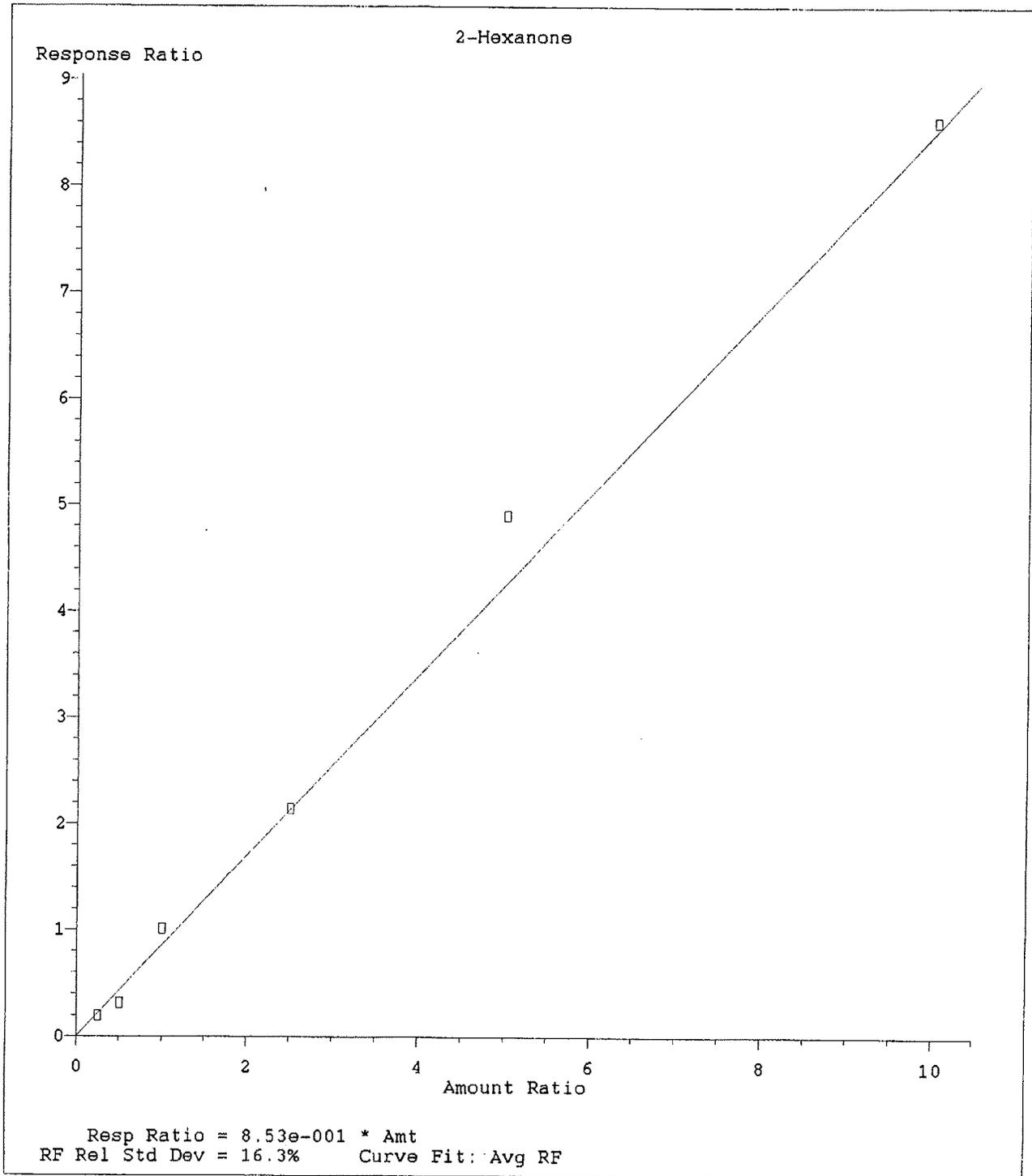
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



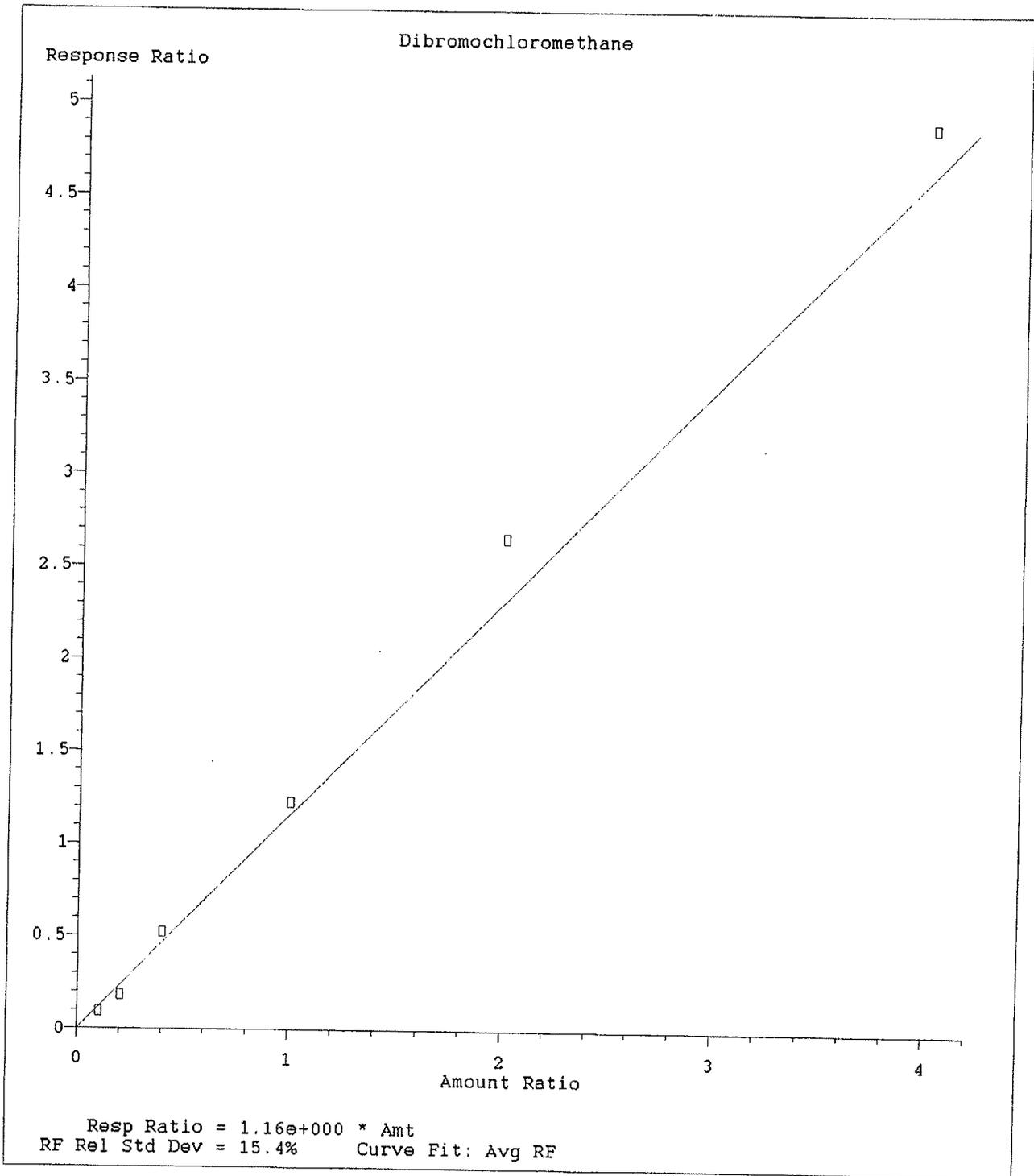
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



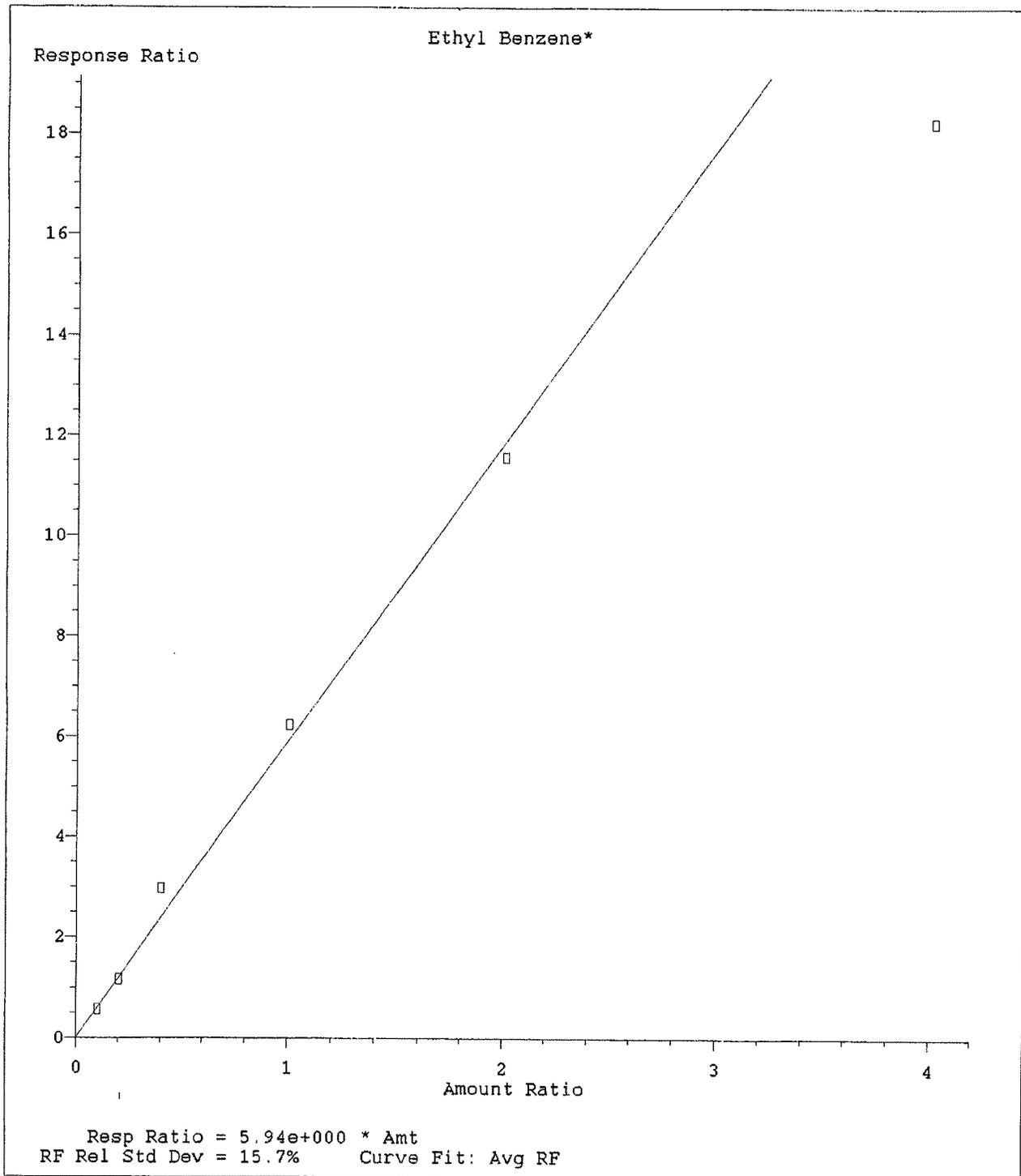
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Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



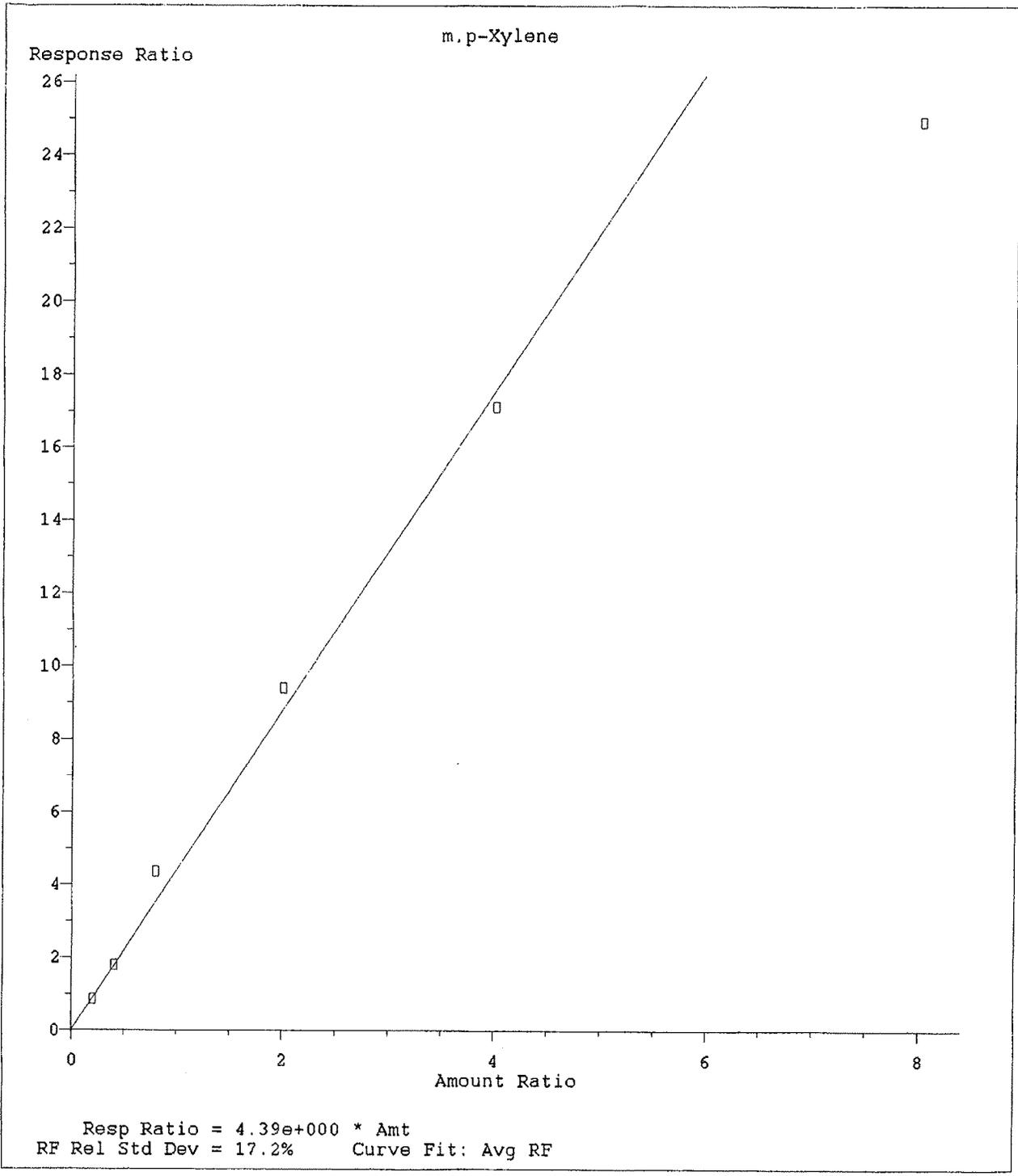
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



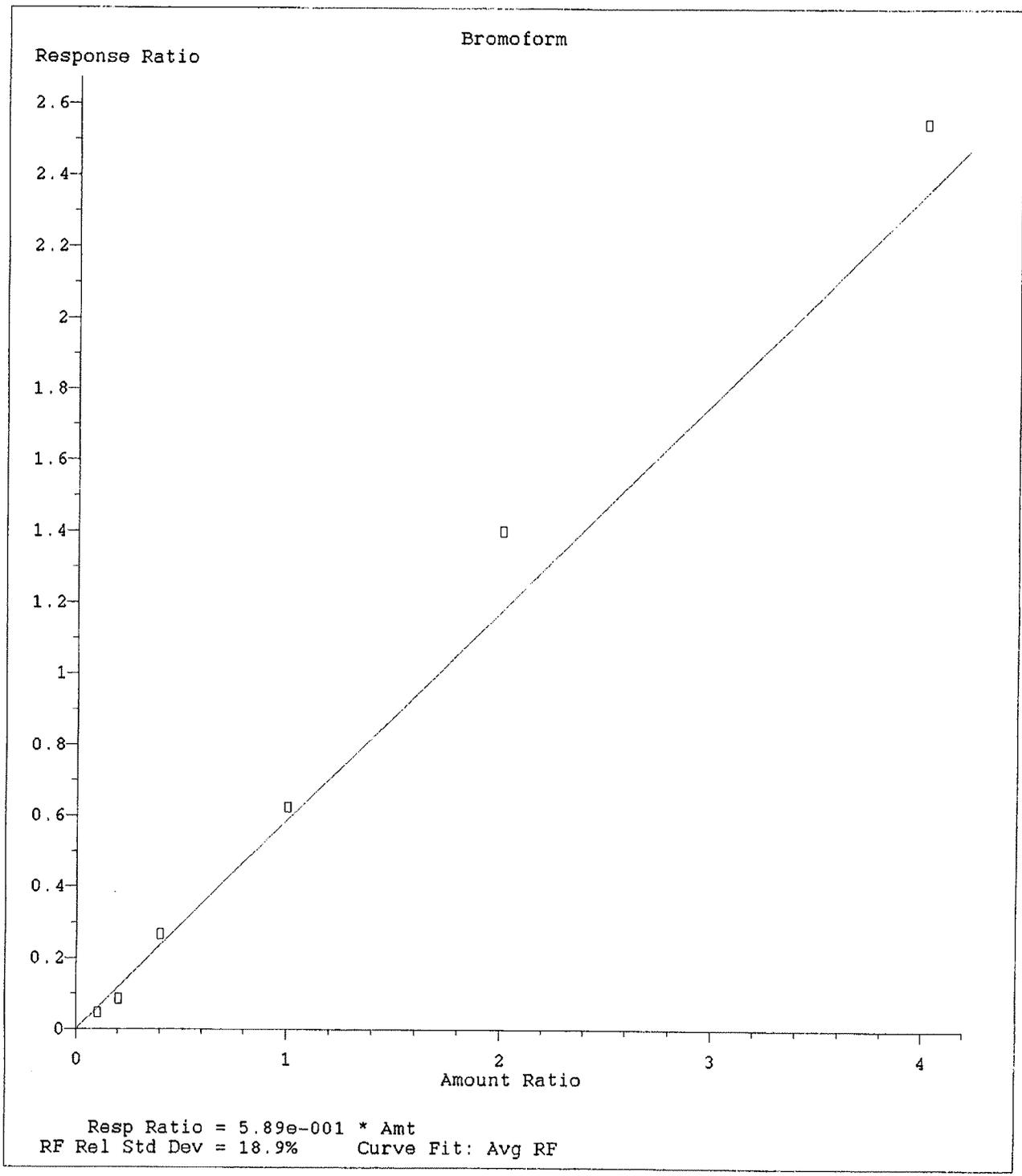
Method Name: C:\HPCHEM\MSEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



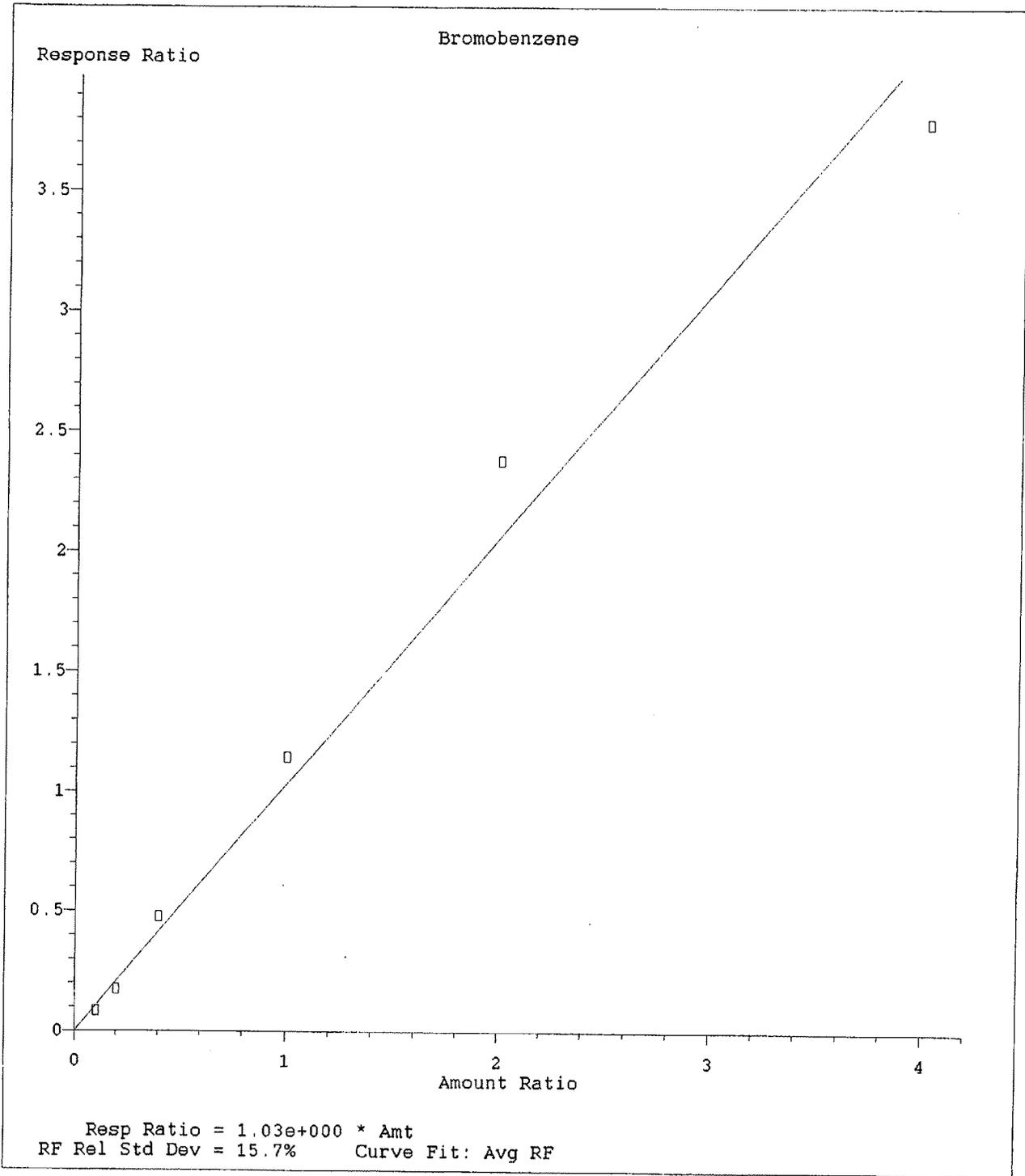
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



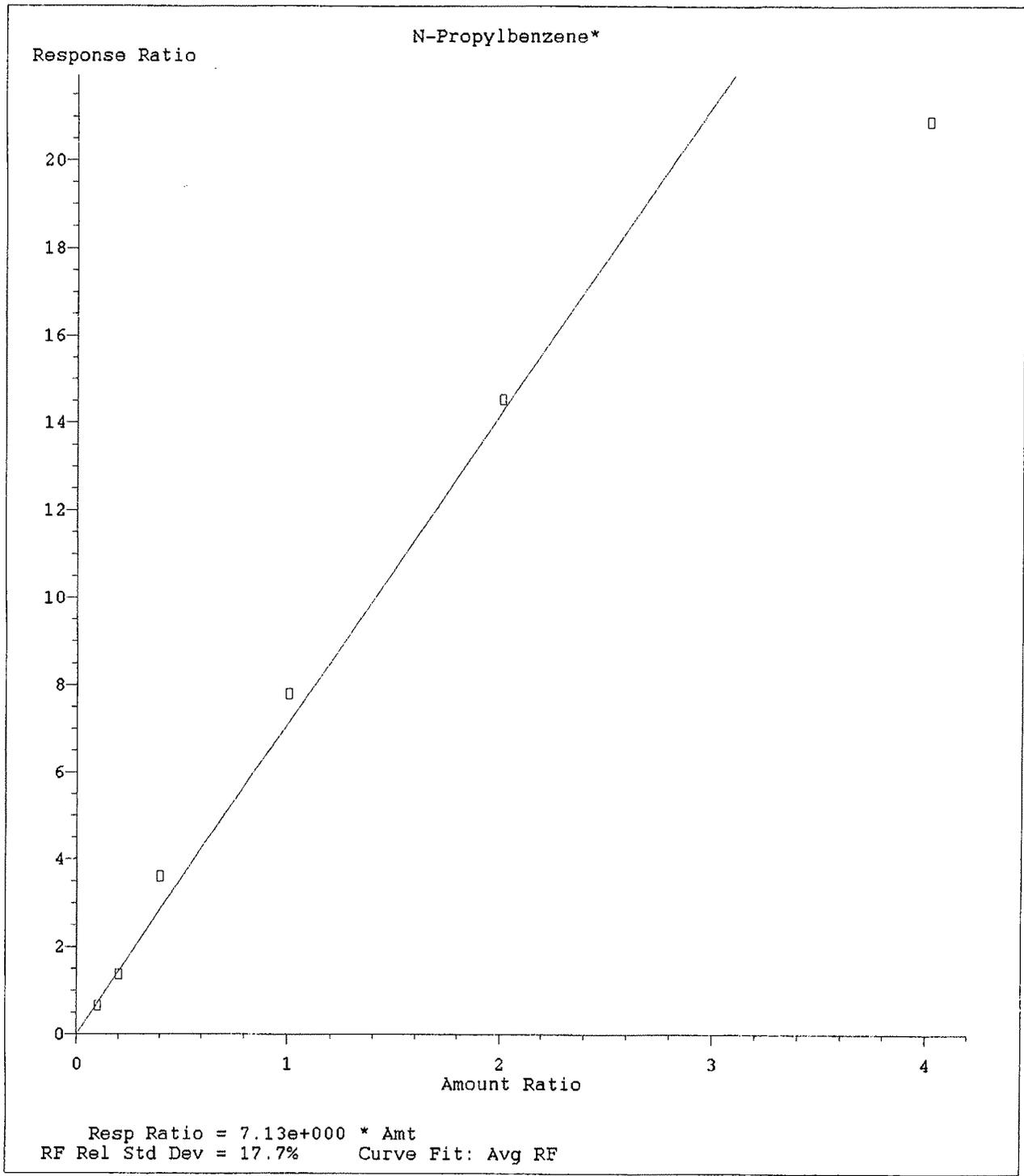
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



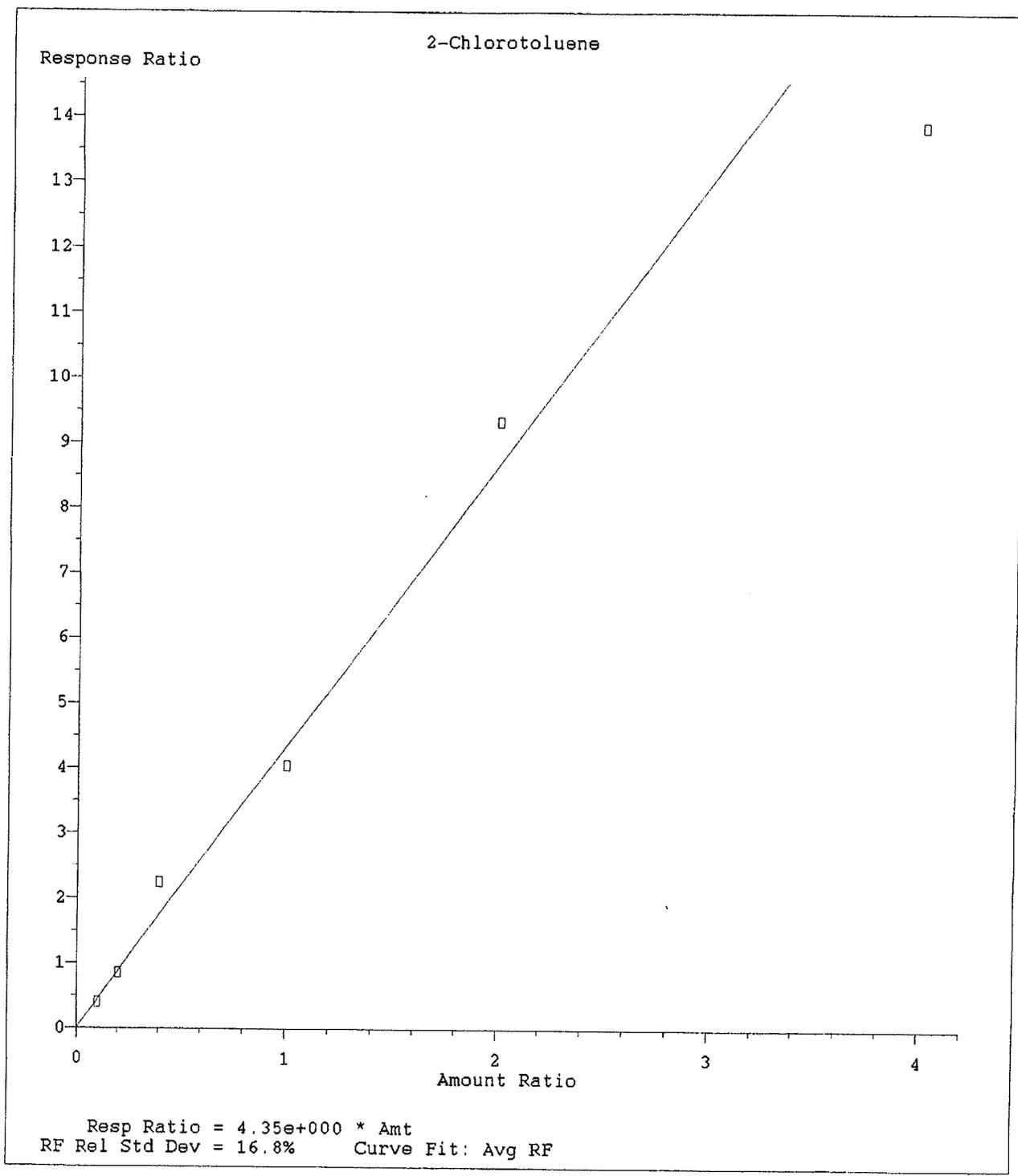
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



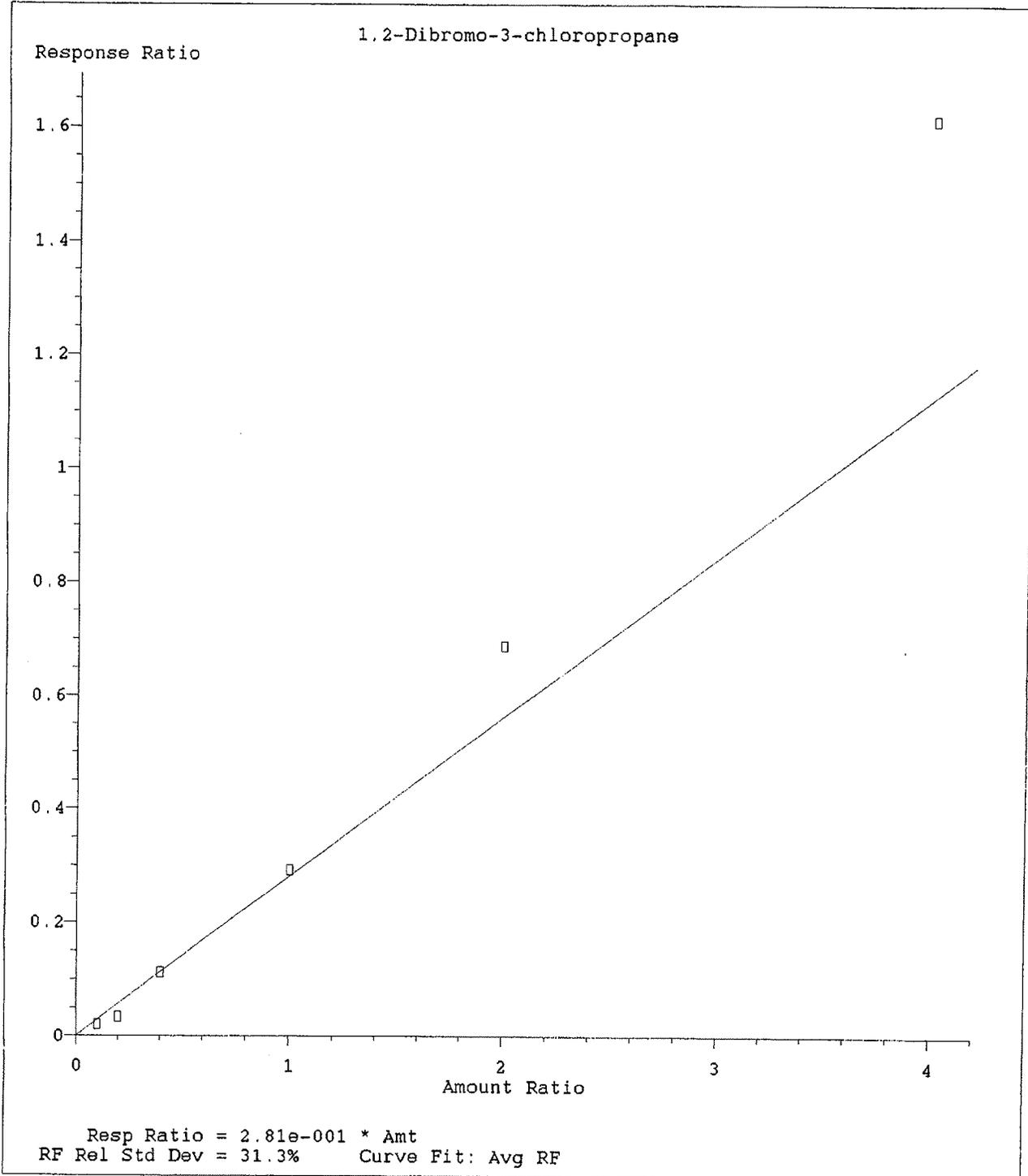
Method Name: C:\HPCHEM\MSEXEN\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



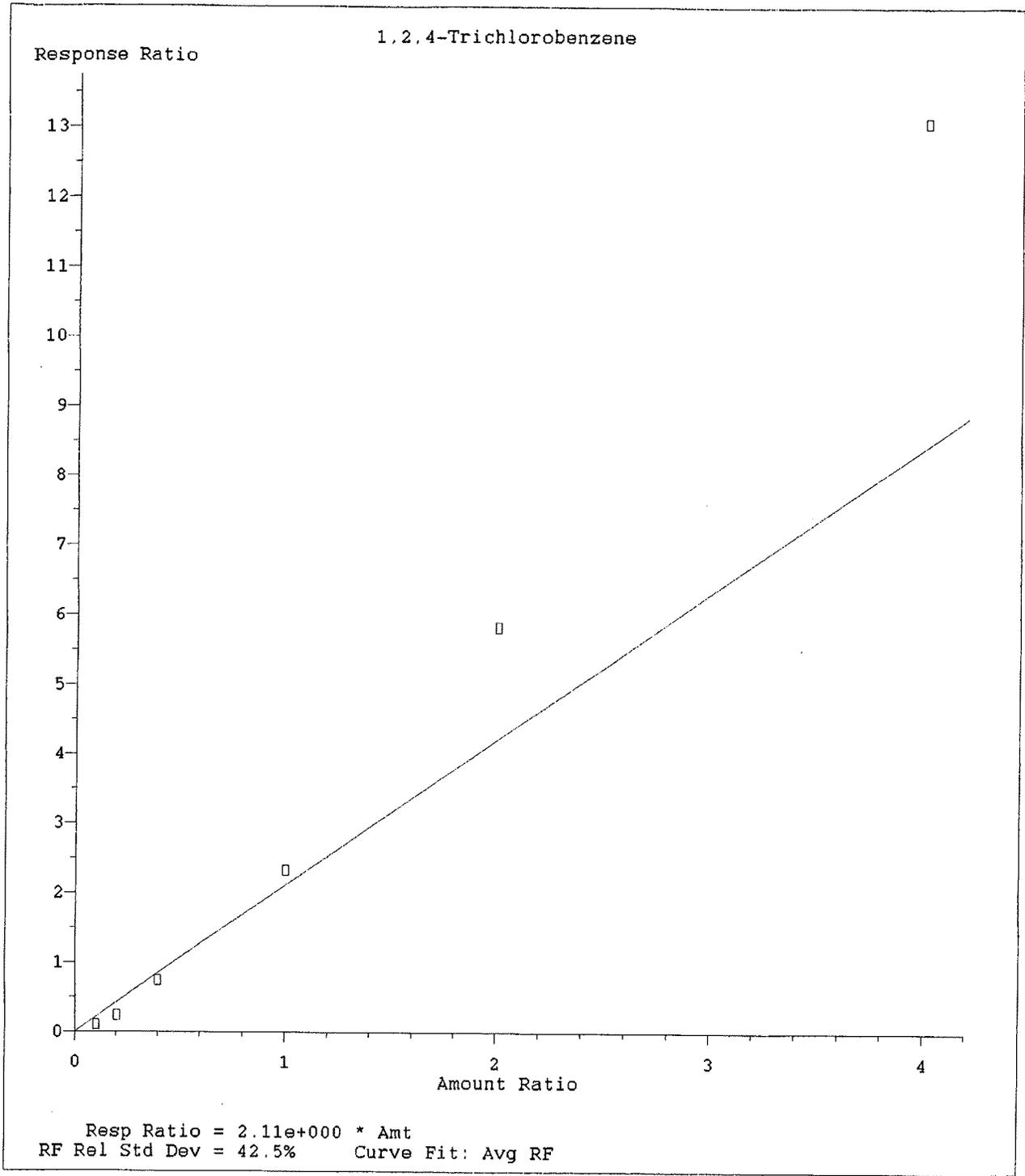
Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



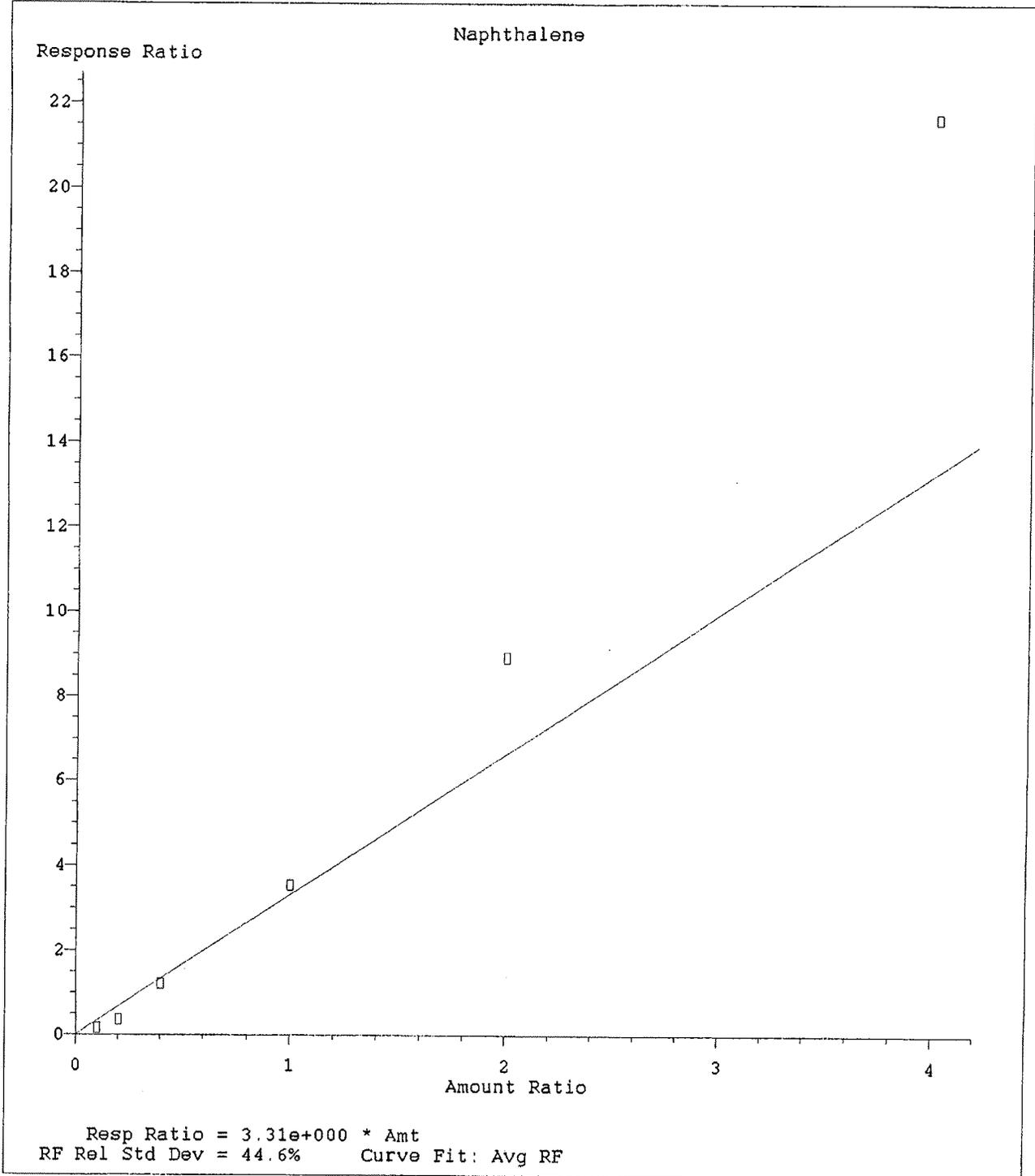
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



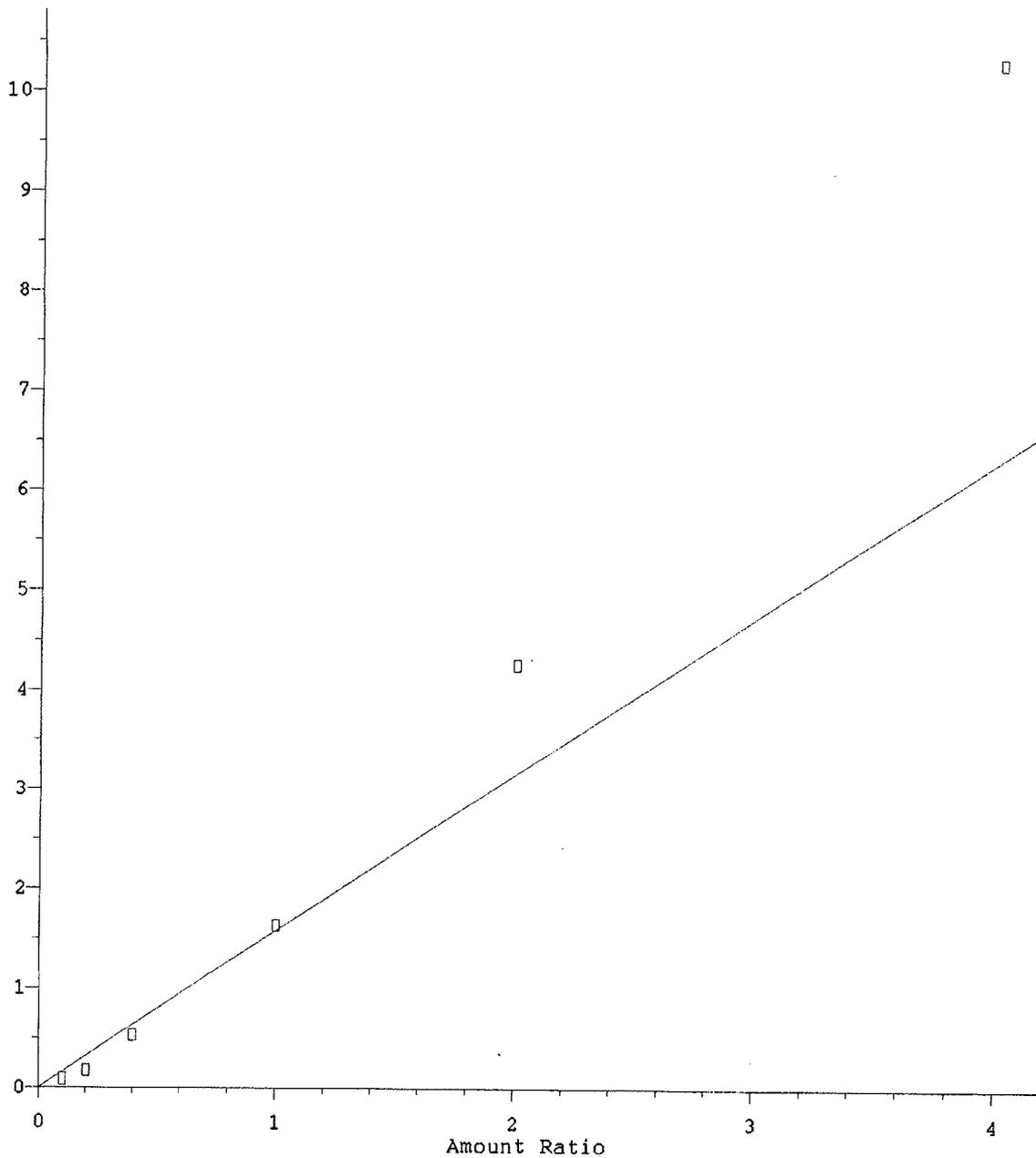
Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

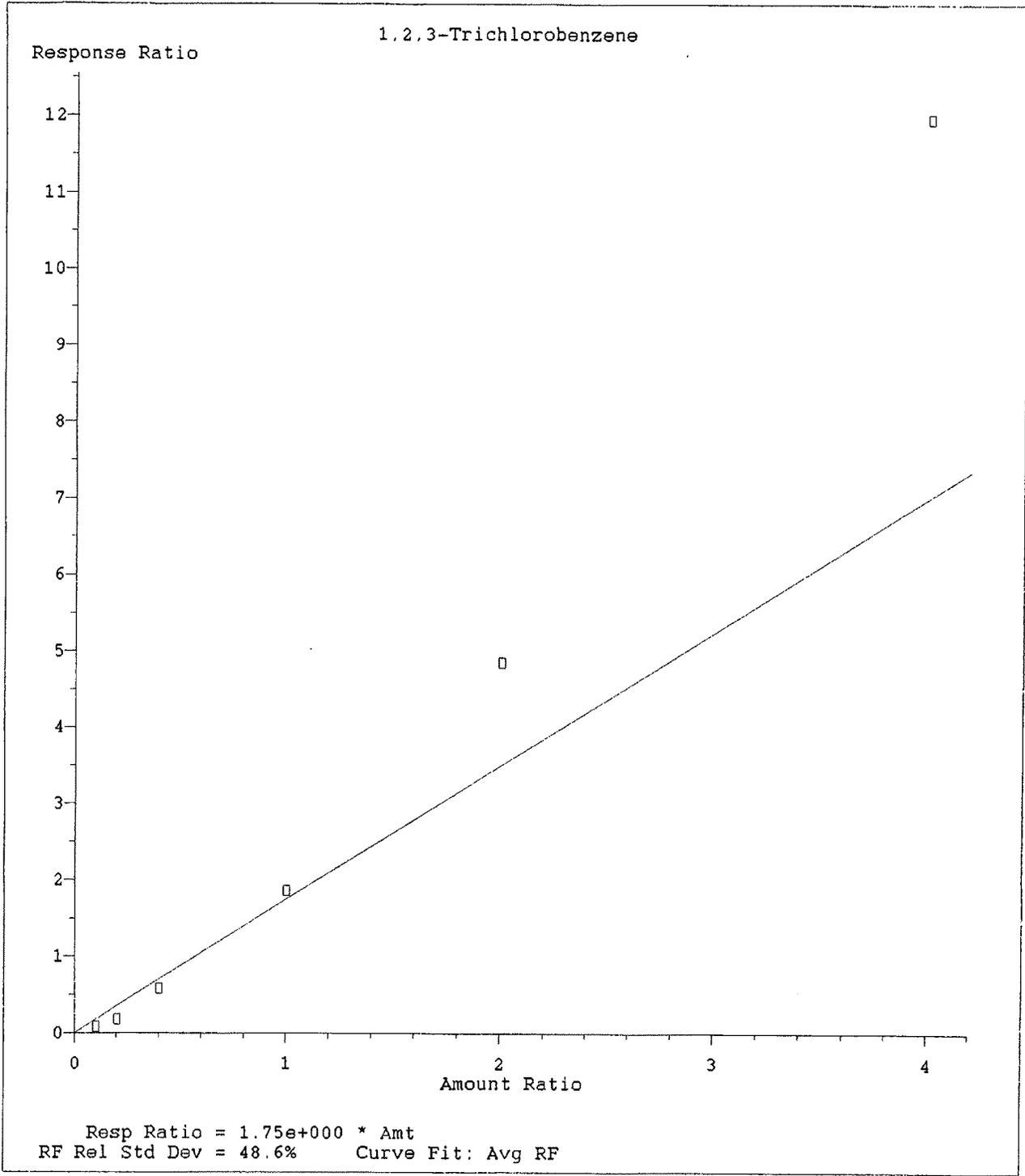
Hexachloro-1,3-butadiene

Response Ratio



Resp Ratio = 1.58e+000 * Amt
RF Rel Std Dev = 42.9% Curve Fit: Avg RF

Method Name: C:\HPCHEM\MSEXEX\013015RC.M
Calibration Table Last Updated: Tue Feb 03 19:53:04 2015



Method Name: C:\HPCHEM\MSEXEXE\013015RC.M
 Calibration Table Last Updated: Tue Feb 03 19:53:04 2015

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D Vial: 11
 Acq On : 30 Jan 2015 6:11 pm Operator: gjd
 Sample : 50ppb 8260 ical verification Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 Fluorobenzene (IS)	1.000	1.000	0.0	102	0.00
2 Dichlorodifluoromethane	0.957	0.935	2.3	97	0.00
3 Chloromethane	0.997	1.006	-0.9	100	0.00
4 m Vinyl Chloride*	0.812	0.837	-3.1	102	0.00
5 Bromomethane	0.333	0.328	1.5	102	0.00
6 Chloroethane	0.274	0.297	-8.4	106	0.00
7 Acrolein	0.635	0.654	-3.0	100	0.00
8 Trichlorofluoromethane	0.843	0.925	-9.7	104	0.00
9 Acetone	0.198	0.177	10.6	110	0.00
10 m 1,1-Dichloroethene*	1.116	1.141	-2.2	99	0.00
11 Acrylonitrile	1.826	1.717	6.0	97	0.00
12 Iodomethane	0.621	0.661	-6.4	101	0.00
13 Methylene Chloride	0.731	0.616	15.7	102	0.00
14 Carbon Disulfide	1.601	1.606	-0.3	97	0.00
15 m trans-1,2-Dichloroethene*	0.523	0.545	-4.2	102	0.00
16 m Methyl-tert-butyl ether* (M	1.409	1.481	-5.1	106	0.00
17 m 1,1-Dichloroethane*	1.923	1.880	2.2	97	0.00
18 Vinyl Acetate	0.652	0.659	-1.1	102	0.00
19 N-Hexane	1.265	1.325	-4.7	102	0.00
20 N-Butanol	0.836	0.839	-0.4	100	0.00
21 2-Butanone (MEK)	0.435	0.448	-3.0	103	0.00
22 m cis-1,2-Dichloroethene*	1.536	1.530	0.4	98	0.00
23 Bromochloromethane	0.356	0.367	-3.1	99	0.00
24 m Chloroform*	1.703	1.707	-0.2	98	0.00
25 2-2-Dichloropropane	1.448	1.456	-0.6	97	0.00
26 s Dibromofluoromethane (SURR)	0.290	0.269	7.2	95	0.00
27 s 1,2-Dichloroethane-d4 (SURR)	0.351	0.361	-2.8	97	-0.04
28 1,2-Dichloroethane	1.253	1.231	1.8	96	0.00
29 m 1,1,1-Trichloroethane*	1.296	1.300	-0.3	96	0.00
30 1,1-Dichloropropene	1.269	1.314	-3.5	97	0.00
31 Carbon Tetrachloride	1.190	1.214	-2.0	96	0.00
32 m Benzene*	3.471	3.414	1.6	95	0.00
33 Dibromomethane	0.612	0.618	-1.0	98	0.00
34 1,2-Dichloropropane	1.102	1.134	-2.9	99	0.00
35 m Trichloroethene*	0.949	0.949	0.0	98	0.00
36 Bromodichloromethane	1.335	1.348	-1.0	97	0.01
37 2-Chloroethyl-vinyl ether	0.017	0.020	-17.6	136	0.01
38 cis-1,3-Dichloropropene	1.596	1.583	0.8	96	0.00
39 4-Methyl-2-Pentanone (MIBK)	1.134	1.182	-4.2	104	0.00
40 trans-1,3-Dichloropropene	1.264	1.308	-3.5	100	0.00
41 1,1,2-Trichloroethane	0.680	0.693	-1.9	98	0.00
42 s Toluene-d8 (SURR)	0.875	0.911	-4.1	94	0.00
43 m Toluene*	3.672	3.657	0.4	98	0.00
44 Ethyl Methacrylate	0.890	0.916	-2.9	99	0.00
45 1,3-Dichloropropane	1.300	1.322	-1.7	99	0.00
46 2-Hexanone	0.853	0.889	-4.2	105	0.00
47 Chlorobenzene-d5 (IS)	1.000	1.000	0.0	99	0.00
48 Dibromochloromethane	1.158	1.232	-6.4	99	0.00
49 1,2-Dibromoethane (EDB)	1.073	1.138	-6.1	103	0.00
50 Tetrachloroethene	1.111	1.165	-4.9	99	0.00
51 m 1,1,1,2-Tetrachloroethane*	0.952	1.013	-6.4	99	0.01
52 m Chlorobenzene*	3.000	3.236	-7.9	98	0.00
53 m Ethyl Benzene*	5.938	6.352	-7.0	101	0.00
54 m,p-Xylene	4.394	4.738	-7.8	99	0.00
55 Bromoform	0.589	0.657	-11.5	104	0.00
56 Styrene	3.323	3.589	-8.0	100	0.00
57 1,1,2,2-Tetrachloroethane	0.951	1.030	-8.3	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D Vial: 11
 Acq On : 30 Jan 2015 6:11 pm Operator: gjd
 Sample : 50ppb 8260 ical verification Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 m o-Xylene*	1.995	2.102	-5.4	98	0.00
59 trans-1,4-Dichloro-2-butene	0.449	0.476	-6.0	101	0.00
60 1,2,3-Trichloropropane	1.532	1.734	-13.2	104	0.00
61 Isopropylbenzene	5.134	5.444	-6.0	96	0.00
62 s 4-Bromofluorobenzene (SURR)	0.525	0.586	-11.6	97	0.00
63 Bromobenzene	1.031	1.147	-11.3	99	0.01
64 m N-Propylbenzene*	7.129	7.726	-8.4	98	0.00
65 2-Chlorotoluene	4.348	4.740	-9.0	116	0.00
66 4-Chlorotoluene	1.031	1.108	-7.5	99	0.00
67 1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	97	0.00
68 1,3,5-Trimethylbenzene	10.307	11.135	-8.0	97	0.00
69 tert-butylbenzene	9.922	11.223	-13.1	102	0.00
70 1,2,4-Trimethylbenzene	9.967	10.801	-8.4	97	0.00
71 sec-Butylbenzene	14.432	15.873	-10.0	95	0.00
72 1,3-Dichlorobenzene	4.617	5.070	-9.8	99	0.06
73 1,4-Dichlorobenzene	2.960	3.230	-9.1	100	-0.06
74 p-Isopropyltoluene	9.866	11.041	-11.9	100	0.00
75 1,2-Dichlorobenzene	4.370	4.818	-10.3	100	0.00
76 N-Butylbenzene	12.992	14.490	-11.5	96	0.01
77 1,2-Dibromo-3-chloropropane	0.281	0.312	-11.0	104	0.00
78 1,2,4-Trichlorobenzene	2.108	2.256	-7.0	94	0.00
79 Naphthalene	3.314	3.647	-10.0	100	0.00
80 Hexachloro-1,3-butadiene	1.576	1.599	-1.5	95	0.00
81 1,2,3-Trichlorobenzene	1.750	1.845	-5.4	96	0.00
82 1-Methylnaphthalene	0.745	0.934	-25.4	120	-0.06
83 2-Methylnaphthalene	0.975	1.271	-30.4	133	0.01

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D Vial: 11
 Acq On : 30 Jan 2015 6:11 pm Operator: gjd
 Sample : 50ppb 8260 ical verification Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 5 23:33 2015 Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:37:41 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.55	96	519029m	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.44	117	337204m	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.23	152	125389m	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.14	113	139878	46.54	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	93.08%
27) 1,2-Dichloroethane-d4 (SUR)	3.41	65	187579	51.45	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.90%
42) Toluene-d8 (SURR)	4.42	98	472770	52.03	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	104.06%
62) 4-Bromofluorobenzene (SURR)	6.33	95	197573	55.81	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	111.62%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.43	85	485446	48.87	ppb	100
3) Chloromethane	1.55	50	522226	50.48	ppb	# 95
4) Vinyl Chloride*	1.58	62	434611	51.59	ppb	100
5) Bromomethane	1.74	94	170359	48.62	ppb	# 98
6) Chloroethane	1.80	64	154189	54.22	ppb	97
7) Acrolein	2.43	56	339298	51.50	ppb	99
8) Trichlorofluoromethane	1.86	101	480068	54.87	ppb	100
9) Acetone	2.36	43	229112	111.29	ppb	# 97
10) 1,1-Dichloroethene*	2.09	61	592218	51.14	ppb	99
11) Acrylonitrile	2.67	53	891099	47.02	ppb	100
12) Iodomethane	2.17	142	343019	53.25	ppb	100
13) Methylene Chloride	2.34	84	319464	42.13	ppb	99
14) Carbon Disulfide	2.12	76	833640	50.17	ppb	# 100
15) trans-1,2-Dichloroethene*	2.41	96	282719	52.10	ppb	99
16) Methyl-tert-butyl ether* (	2.44	73	768504	52.54	ppb	96
17) 1,1-Dichloroethane*	2.69	63	975557	48.86	ppb	100
18) Vinyl Acetate	2.77	43	341918	50.50	ppb	# 100
19) N-Hexane	2.44	57	687837	52.37	ppb	99
20) N-Butanol	2.76	57	435237	50.18	ppb	# 99
21) 2-Butanone (MEK)	3.19	43	581399	128.63	ppb	99
22) cis-1,2-Dichloroethene*	2.93	61	794340	49.83	ppb	97
23) Bromochloromethane	3.03	128	190330	51.56	ppb	99
24) Chloroform*	3.05	83	886015	50.10	ppb	100
25) 2-2-Dichloropropane	2.98	77	755745	50.29	ppb	99
28) 1,2-Dichloroethane	3.44	62	639043	49.13	ppb	99
29) 1,1,1-Trichloroethane*	3.16	97	674697	50.17	ppb	99
30) 1,1-Dichloropropene	3.22	75	682032	51.76	ppb	100
31) Carbon Tetrachloride	3.13	117	630029	51.01	ppb	100
32) Benzene*	3.34	78	1771837	49.18	ppb	100
33) Dibromomethane	3.87	93	320954	50.55	ppb	99
34) 1,2-Dichloropropane	3.92	63	588362	51.42	ppb	100
35) Trichloroethene*	3.63	95	492302	49.98	ppb	100
36) Bromodichloromethane	3.94	83	699569	50.50	ppb	100
37) 2-Chloroethyl-vinyl ether	4.25	63	41092	238.35	ppb	98
38) cis-1,3-Dichloropropene	4.31	75	821459	49.60	ppb	99
39) 4-Methyl-2-Pentanone (MIBK)	4.67	43	1534263	130.38	ppb	100
40) trans-1,3-Dichloropene	4.70	75	678708	51.74	ppb	100
41) 1,1,2-Trichloroethane	4.81	83	359830	50.96	ppb	99
43) Toluene*	4.45	91	1897883	49.79	ppb	100
44) Ethyl Methacrylate	4.77	69	475424	51.43	ppb	97
45) 1,3-Dichloropropane	4.99	76	686023	50.83	ppb	100
46) 2-Hexanone	5.21	43	1153684	130.27	ppb	99
48) Dibromochloromethane	4.93	129	415553	53.23	ppb	99
49) 1,2-Dibromoethane (EDB)	5.11	107	383738	53.05	ppb	100

(#) = qualifier out of range (m) = manual integration
 1101011.D 013015RC.M Thu Feb 05 23:33:51 2015 GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D Vial: 11
 Acq On : 30 Jan 2015 6:11 pm Operator: gjd
 Sample : 50ppb 8260 ical verification Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 5 23:33 2015

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEN\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:37:41 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.70	166	392918	52.42	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.49	131	341429	53.20	ppb	99
52) Chlorobenzene*	5.46	112	1091051	53.92	ppb	100
53) Ethyl Benzene*	5.46	91	2141796	53.48	ppb	100
54) m,p-Xylene	5.56	91	3195433	107.82	ppb	100
55) Bromoform	5.95	173	221558	55.81	ppb	99
56) Styrene	5.91	104	1210233	54.00	ppb	100
57) 1,1,2,2-Tetrachloroethane	6.48	85	347170	54.14	ppb	100
58) o-Xylene*	5.88	106	708839	52.69	ppb	99
59) trans-1,4-Dichloro-2-buten	6.62	53	160402	53.02	ppb	99
60) 1,2,3-Trichloropropane	6.60	75	584862	56.61	ppb	100
61) Isopropylbenzene	6.11	105	1835800	53.03	ppb	100
63) Bromobenzene	6.42	156	386676	55.60	ppb	100
64) N-Propylbenzene*	6.42	91	2605332	54.19	ppb	100
65) 2-Chlorotoluene	6.56	91	1598359	54.51	ppb	97
66) 4-Chlorotoluene	6.69	126	373502	53.69	ppb	99
68) 1,3,5-Trimethylbenzene	6.58	105	1396233	54.02	ppb	99
69) tert-butylbenzene	6.83	119	1407212	56.56	ppb	99
70) 1,2,4-Trimethylbenzene	6.89	105	1354298	54.18	ppb	100
71) sec-Butylbenzene	6.98	105	1990264	54.99	ppb	100
72) 1,3-Dichlorobenzene	7.24	146	635705	54.91	ppb	99
73) 1,4-Dichlorobenzene	7.24	148	405011	54.56	ppb	99
74) p-Isopropyltoluene	7.09	119	1384468	55.95	ppb	100
75) 1,2-Dichlorobenzene	7.60	146	604081	55.13	ppb	99
76) N-Butylbenzene	7.45	91	1816947	55.77	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.28	155	39184	55.62	ppb	96
78) 1,2,4-Trichlorobenzene	8.88	180	282903	53.50	ppb	100
79) Naphthalene	9.17	128	457276	55.03	ppb	100
80) Hexachloro-1,3-butadiene	8.85	225	200559	50.75	ppb	99
81) 1,2,3-Trichlorobenzene	9.34	180	231301	52.71	ppb	99
82) 1-Methylnaphthalene	10.28	142	117169	62.73	ppb	99
83) 2-Methylnaphthalene	10.13	142	159412	65.21	ppb	97

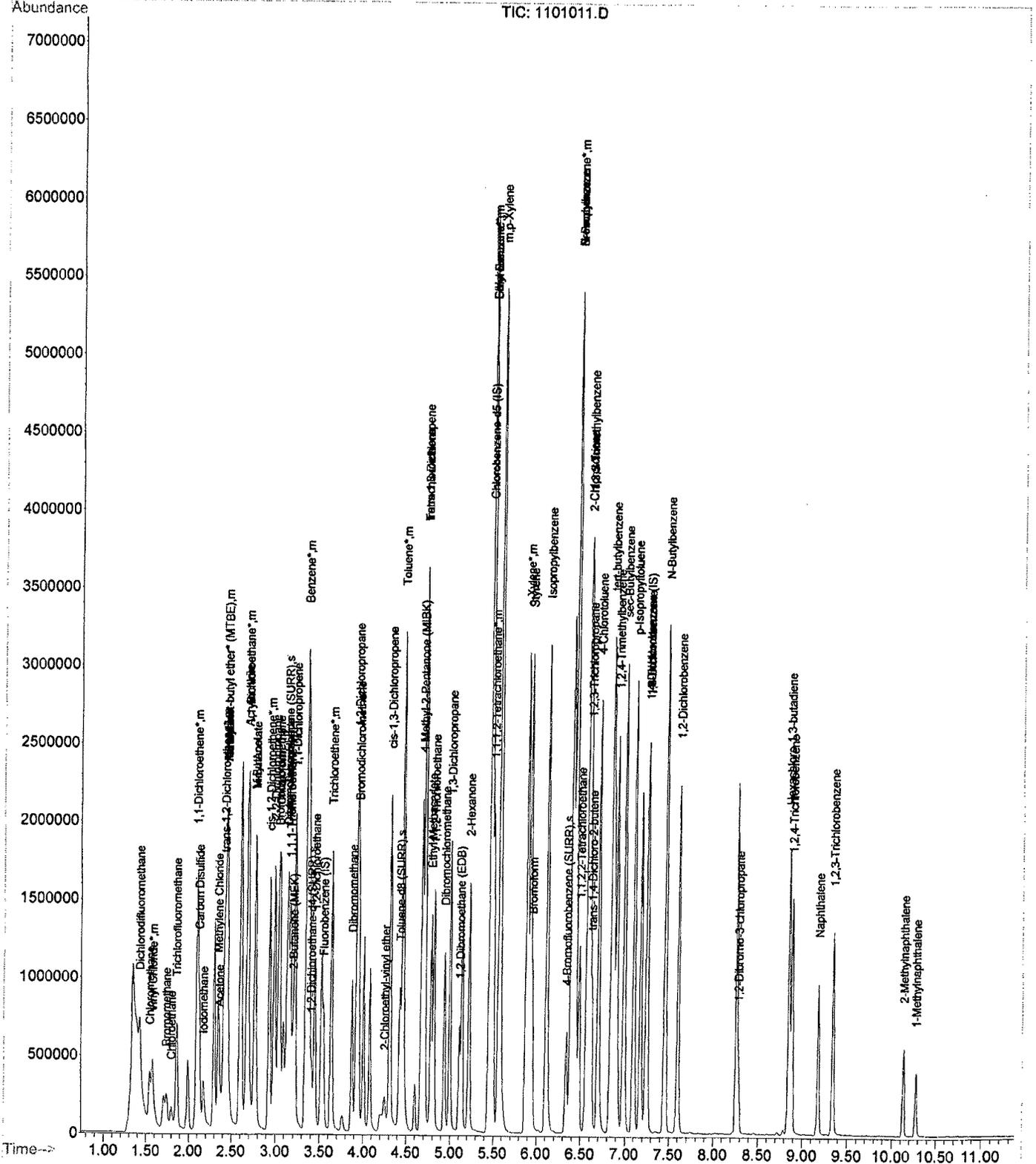
Quantitation Report

Data File : C:\HPCHEM\1\DATA\013015C\1101011.D
 Acq On : 30 Jan 2015 6:11 pm
 Sample : 50ppb 8260 ical verification
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 5 23:33 2015

Vial: 11
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:53:04 2015
 Response via : Initial Calibration



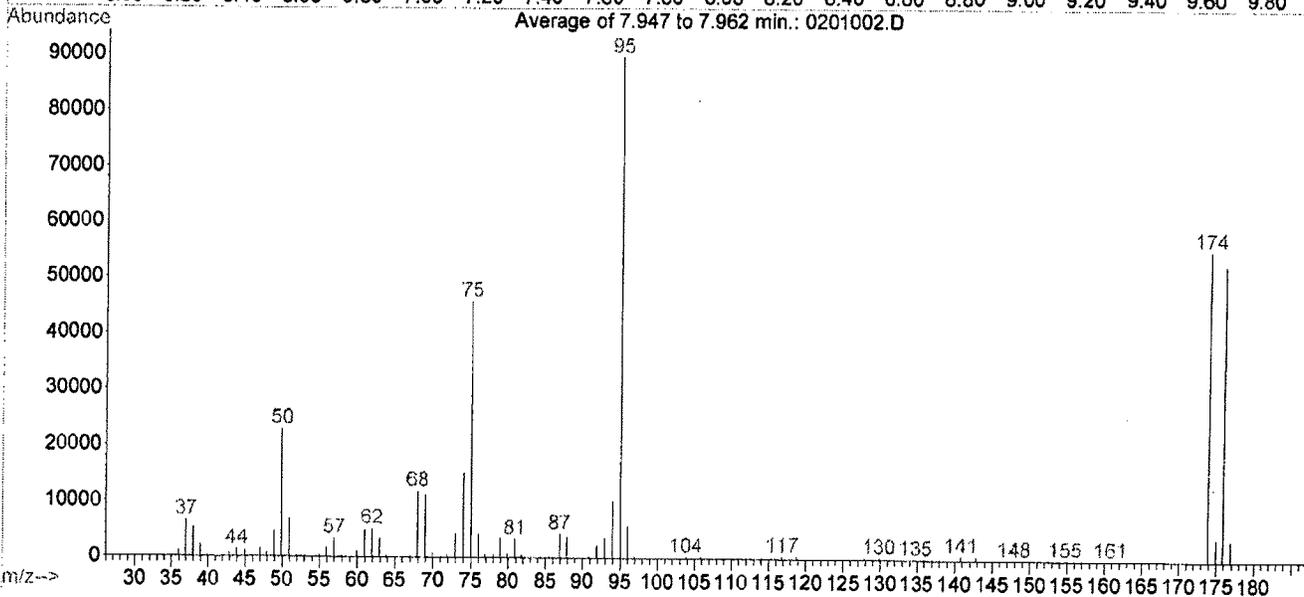
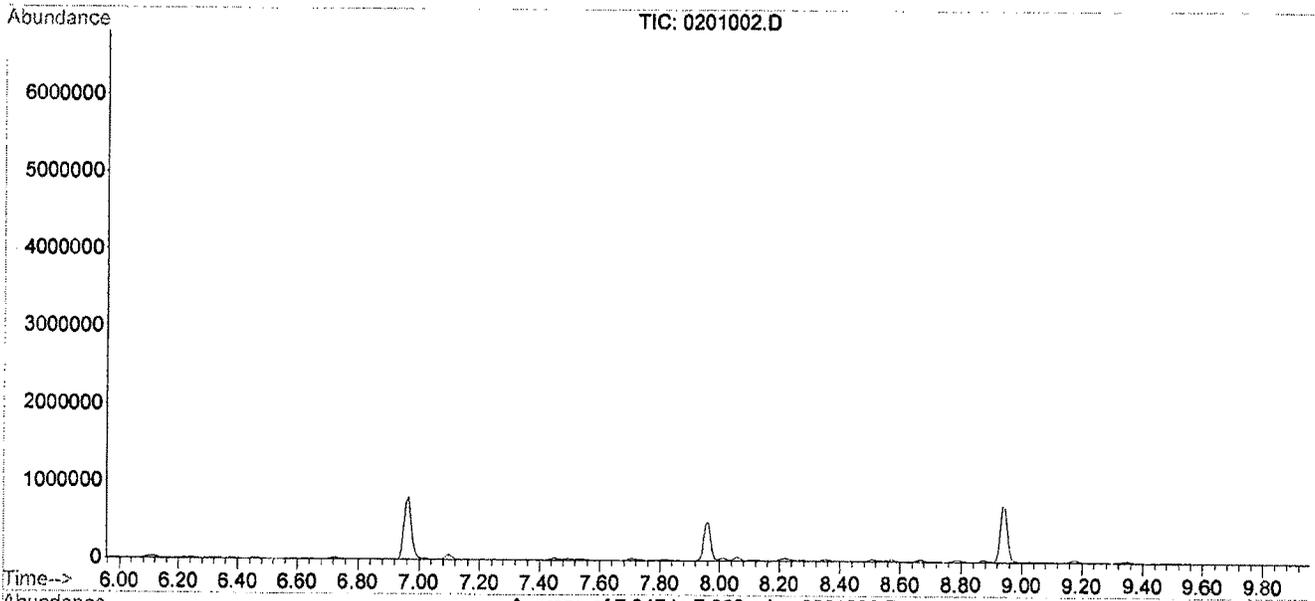
Injection Log

Directory: C:\HPCHEM\1\DATA\020215C

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	b	ical	2 Feb 2015 08:05
2	2	0201002.D	1.	1ppb 8260 ical	ical	2 Feb 2015 08:26
3	3	0301003.D	1.	1ppb 8260 ical	ical	2 Feb 2015 08:46
4	4	0401004.D	1.	5ppb 8260 ical	ical	2 Feb 2015 09:07
5	5	0501005.D	1.	10ppb 8260 ical	ical	2 Feb 2015 09:27
6	6	0601006.D	1.	20ppb 8260 ical	ical	2 Feb 2015 09:47
7	7	0701007.D	1.	50ppb 8260 ical	ical	2 Feb 2015 10:08
8	8	0801008.D	1.	100ppb 8260 ical	ical	2 Feb 2015 10:28
9	9	0901009.D	1.	200ppb 8260 ical	ical	2 Feb 2015 10:49
10	10	1001010.D	1.	spacer blank	qc	2 Feb 2015 11:09
11	11	1101011.D	1.	50 icv	qc	2 Feb 2015 11:30
12	12	1201012.D	1.	mb	qc	2 Feb 2015 11:50
13	13	1301013.D	1.	15-1188:20 con for nfo	qc	2 Feb 2015 12:11
14	14	1401001.D	1.	15-1519	a	2 Feb 2015 12:45
15	15	1501002.D	1.	15-1519:10	a	2 Feb 2015 13:05
16	16	1601003.D	1.	15-1520	a	2 Feb 2015 13:26
17	17	1701004.D	1.	15-1521	a	2 Feb 2015 13:46
18	18	1801005.D	1.	15-1522	a	2 Feb 2015 14:07
19	19	1901006.D	1.	15-1523	a	2 Feb 2015 14:27
20	20	2001007.D	1.	15-1524	a	2 Feb 2015 14:48
21	21	2101008.D	1.	15-1525	a	2 Feb 2015 15:08
22	22	2201009.D	1.	15-1526	a	2 Feb 2015 15:29
23	23	2301010.D	1.	15-1527	a	2 Feb 2015 15:49
24	24	2401011.D	1.	15-1528	a	2 Feb 2015 16:09
25	25	2501012.D	1.	15-1529	a	2 Feb 2015 16:30
26	26	2601013.D	1.	15-1530	a	2 Feb 2015 16:50
27	27	2701014.D	1.	15-1531	a	2 Feb 2015 17:11
28	28	2801015.D	1.	15-1532	a	2 Feb 2015 17:31
29	29	2901016.D	1.	15-1533	a	2 Feb 2015 17:51
30	30	3001017.D	1.	15-1534	a	2 Feb 2015 18:12
31	31	3101018.D	1.	15-1537	a	2 Feb 2015 18:32
32	32	3201019.D	1.	15-1538	a	2 Feb 2015 18:53
33	33	3301020.D	1.	15-1539	a	2 Feb 2015 19:13
34	34	3401021.D	1.	15-1540	a	2 Feb 2015 19:33
35	35	3501022.D	1.	15-1541	a	2 Feb 2015 19:54
36	36	3601023.D	1.	15-1542	a	2 Feb 2015 20:14
37	37	3701024.D	1.	15-1543	a	2 Feb 2015 20:34
38	38	3801025.D	1.	15-1544	a	2 Feb 2015 20:55
39	39	3901026.D	1.	15-1545	a	2 Feb 2015 21:15
40	40	4001027.D	1.	15-1545ms	b	2 Feb 2015 21:36
41	41	4101028.D	1.	15-1545msd	c	2 Feb 2015 21:56
42	42	4201029.D	1.	15-1546	a	2 Feb 2015 22:16
43	43	4301030.D	1.	15-1547 tb	a	2 Feb 2015 22:36
44	44	4401031.D	1.	bfb/ccv 50ppb	qc	2 Feb 2015 22:57
45	45	4501032.D	1.	lcs 50ppb	qc	2 Feb 2015 23:17
46	46	4601033.D	1.	lcsd 50ppb	qc	2 Feb 2015 23:37
47	47	4701034.D	1.	mb	qc	2 Feb 2015 23:58
48	48	4801035.D	1.	15-1548	a	3 Feb 2015 00:18
49	49	4901036.D	1.	15-1549	a	3 Feb 2015 00:38
50	50	5001037.D	1.	15-1550	a	3 Feb 2015 00:59
51	51	5101038.D	1.	15-1551	a	3 Feb 2015 01:19
52	52	5201039.D	1.	15-1552	a	3 Feb 2015 01:39
53	53	5301040.D	1.	15-1553	a	3 Feb 2015 02:00
54	54	5401041.D	1.	15-1554	a	3 Feb 2015 02:20
55	55	5501042.D	1.	15-1555	a	3 Feb 2015 02:40

BFB

Data File : C:\HPCHEM\1\DATA\020215C\0201002.D Vial: 2
Acq On : 2 Feb 2015 8:26 am Operator: GJD
Sample : 1ppb 8260 ical Inst : GC/MS #2
Misc : ical Multiplr: 1.00
MS Integration Params: rteint.p
Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voa analysis



Spectrum Information: Average of 7.947 to 7.962 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.5	22859	PASS
75	95	30	60	51.0	45757	PASS
95	95	100	100	100.0	89736	PASS
96	95	5	9	6.5	5856	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	61.6	55299	PASS
175	174	5	9	7.3	4038	PASS
176	174	95	100	95.6	52856	PASS
177	176	5	9	6.8	3607	PASS

Response Factor Report GC/MS #2

Method : F:\NPHCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration

Calibration Files

5 =0401004.D 20 =0601006.D 100 =0801008.D
 1 =0301003.D 200 =0901009.D 10 =0501005.D

Compound	5	20	100	1	200	10	Avg	%RSD
-----ISTD-----								
1) I Fluorobenzene (IS)								
2) T Dichlorodifluoromet	0.600	0.685	0.627		0.608	0.713	0.646	6.89
3) T Chloromethane	0.513	0.550	0.511		0.517	0.581	0.533	5.23
4) T Vinyl Chloride	0.459	0.517	0.499	0.386	0.494	0.546	0.486	10.52
5) T Bromomethane	0.355	0.299	0.301		0.294	0.351	0.320	8.49
6) T Chloroethane	0.294	0.280	0.217		0.209	0.263	0.252	13.44
7) T Acrolein	0.320	0.358	0.330		0.322	0.385	0.343	7.29
8) T Trichlorofluorometh	0.641	0.730	0.625		0.428	0.768	0.642	18.44
9) T Acetone	0.132	0.108	0.096		0.097	0.119	0.108	13.48
10) T 1,1-Dichloroethene	0.718	0.835	0.763		0.730	0.858	0.781	7.15
11) T Acrylonitrile	0.776	0.866	0.815		0.809	0.896	0.831	5.16
12) T Iodomethane	0.502	0.666	0.712		0.700	0.617	0.646	12.05
13) T Methylene Chloride	0.532	0.483	0.429		0.413	0.503	0.466	10.03
14) T Carbon Disulfide	1.485	1.632	1.513		1.462	1.680	1.553	5.54
15) T trans-1,2-Dichloroe	0.385	0.440	0.417		0.416	0.459	0.424	5.89
16) T Methyl-tert-butyl e	0.866	0.905	0.897		0.907	0.903	0.894	1.74
17) T 1,1-Dichloroethane	0.915	0.963	0.906		0.883	0.996	0.933	4.36
18) T Vinyl Acetate	0.617	0.639	0.594		0.592	0.646	0.617	3.63
19) T N-Hexane	0.674	0.753	0.698		0.679	0.779	0.717	5.84
20) T n-Butanol	0.344	0.341	0.328		0.323	0.353	0.338	3.19
21) T 2-Butanone (MEK)	0.140	0.139	0.132		0.131	0.143	0.136	3.37
22) T cis-1,2-Dichloroeth	0.667	0.714	0.666		0.645	0.757	0.688	5.90
23) T Bromochloromethane	0.202	0.232	0.219		0.219	0.230	0.221	4.90
24) T Chloroform	0.862	0.934	0.898		0.989	0.970	0.927	5.05
25) T 2,2-Dichloropropane	0.592	0.750	0.773		0.783	0.728	0.731	9.67
26) S Dibromofluoromethan	0.293	0.285	0.277		0.276	0.290	0.284	2.43
27) S 1,2-Dichloroethane-	0.343	0.339	0.340		0.353	0.335	0.345	2.47
28) T 1,2-Dichloroethane	0.729	0.749	0.722		0.723	0.761	0.734	2.28
29) T 1,1,1-Trichloroetha	0.718	0.814	0.756		0.755	0.843	0.777	5.79
30) T 1,1-Dichloropropene	0.645	0.717	0.672		0.667	0.756	0.690	5.83
31) T Carbon Tetrachlorid	0.642	0.696	0.669		0.645	0.721	0.674	4.52
32) T Benzene	1.647	1.752	1.676		1.676	1.801	1.711	3.33
33) T Dibromomethane	0.282	0.285	0.285		0.278	0.296	0.285	2.25
34) T 1,2-Dichloropropane	0.466	0.495	0.460		0.442	0.513	0.475	5.40
35) T Trichloroethene	0.474	0.490	0.463		0.461	0.514	0.480	4.13
36) T Bromodichloromethan	0.728	0.763	0.736		0.732	0.805	0.752	3.83
37) T 2-Chloroethyl-vinyl	0.116	0.124	0.115		0.111	0.128	0.119	5.40
38) T cis-1,3-Dichloropro	0.761	0.838	0.803		0.797	0.855	0.812	4.11
39) T 4-Methyl-2-Pentanon	0.333	0.340	0.314		0.310	0.353	0.330	4.85
40) T trans-1,3-Dichlorop	0.698	0.749	0.718		0.709	0.771	0.730	3.70
41) T 1,1,2-Trichloroetha	0.292	0.306	0.294		0.287	0.313	0.299	3.15
42) S Toluene-d8 (SURR)	0.820	0.805	0.809		0.824	0.825	0.816	0.95
43) T Toluene	1.692	1.770	1.700		1.671	1.855	1.733	3.95
44) T Ethyl Methacrylate	0.240	0.254	0.259		0.256	0.275	0.257	4.36
45) T 1,3-Dichloropropane	0.686	0.703	0.682		0.668	0.718	0.690	2.55
46) T 2-Hexanone	0.246	0.251	0.236		0.232	0.250	0.236	7.95
-----ISTD-----								
47) I Chlorobenzene-d5 (IS)								
48) T Dibromochloromethan	0.632	0.675	0.654		0.644	0.662	0.654	2.27
49) T 1,2-Dibromoethane (	0.495	0.532	0.515		0.503	0.530	0.515	2.82
50) T Tetrachloroethene	0.568	0.639	0.621		0.611	0.646	0.619	4.56
51) T 1,1,1,2-Tetrachloro	0.574	0.602	0.582		0.561	0.614	0.586	3.27
52) T Chlorobenzene	1.500	1.623	1.508		1.461	1.639	1.545	4.61
53) T Ethylbenzene	2.810	2.970	2.789		2.699	3.088	2.863	4.91
54) T m,p-Xylene	2.129	2.271	2.147		2.078	2.366	2.193	4.84
55) T Bromoform	0.331	0.357	0.350		0.345	0.353	0.349	2.80
56) T Styrene	1.602	1.679	1.630		1.608	1.745	1.651	3.24
57) T 1,1,2,2-Tetrachloro	0.585	0.614	0.589		0.574	0.619	0.597	2.94
58) T o-Xylene	0.933	0.996	0.937		0.897	1.029	0.959	4.96
59) T trans-1,4-Dichloro-	0.182	0.207	0.203		0.195	0.195	0.197	4.50
60) T 1,2,3-Trichloroprop	0.745	0.774	0.758		0.732	0.788	0.761	2.67
61) T Isopropylbenzene	2.552	2.807	2.701		2.637	2.875	2.716	4.27
62) S 4-Bromofluorobenzen	0.458	0.462	0.463		0.468	0.461	0.464	1.13
63) T Bromobenzene	0.546	0.595	0.571		0.551	0.613	0.574	4.50
64) T N-propylbenzene	3.274	3.578	3.381		3.263	3.752	3.447	5.48
65) T 2-Chlorotoluene	2.151	2.278	2.164		2.103	2.361	2.211	4.28

66)	T	4-Chlorotoluene	0.599	0.630	0.626	0.608	0.673	0.626	4.12
67)	I	1,4-Dichlorobenzene-d	-----ISTD-----						
68)	T	1,3,5-Trimethylbenz	4.536	4.943	4.490	4.382	5.058	4.679	5.72
69)	T	tert-Butylbenzene	4.880	5.257	4.855	4.717	5.504	5.050	5.79
70)	T	1,2,4-Trimethylbenz	4.493	4.929	4.548	4.371	4.954	4.657	5.11
71)	T	sec-Butylbenzene	6.446	7.029	6.465	6.278	7.190	6.681	5.38
72)	T	1,3-Dichlorobenzene	2.419	2.603	2.462	2.378	2.671	2.503	4.48
73)	T	1,4-Dichlorobenzene	1.446	1.642	1.553	1.499	1.676	1.564	5.49
74)	T	p-Isopropyltoluene	4.946	5.588	5.268	5.130	5.845	5.358	6.02
75)	T	1,2-Dichlorobenzene	2.200	2.404	2.256	2.201	2.423	2.298	4.25
76)	T	N-Butylbenzene	5.270	5.796	5.362	5.138	6.113	5.532	6.57
77)	T	1,2-Dibromo-3-chlor	0.152	0.178	0.174	0.170	0.174	0.171	5.69
78)	T	1,2,4-Trichlorobenz	1.306	1.407	1.352	1.255	1.442	1.359	5.10
79)	T	Naphthalene	2.856	2.991	2.723	3.634	3.068	3.087	3.027
80)	T	Hexachloro-1,3-buta	0.757	0.868	0.808	0.770	0.881	0.821	6.22
81)	T	1,2,3-Trichlorobenz	1.182	1.247	1.193	1.116	1.292	1.207	4.97
82)		1-methylnaphthalene	1.150	1.250	1.166	1.084	1.313	1.198	6.78
83)		2-methylnaphthalene	1.502	1.724	1.629	1.536	1.683	1.628	5.57

(#) = Out of Range ### Number of calibration levels exceeded format ###

020215RC.M

Thu Feb 05 14:48:02 2015 VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0301003.D
 Acq On : 2 Feb 2015 8:46 am
 Sample : 1ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:42 2015

Vial: 3
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Thu Jan 29 17:20:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	481385	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	363876	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	156770	50.00	ug/L	0.01

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.19	113	135966	47.80	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	95.60%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	160820	49.35	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	98.70%
42) Toluene-d8 (SURR)	5.79	98	386055	46.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	92.26%
62) 4-Bromofluorobenzene (SURR)	7.95	95	163410	42.87	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	85.74%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.70	85	4555m	0.69	ug/L	
3) Chloromethane	1.85	50	5022m	0.83	ug/L	
4) Vinyl Chloride	1.85	62	3715m	0.70	ug/L	
5) Bromomethane	2.11	94	3761m	1.41	ug/L	
6) Chloroethane	2.20	64	2200	1.08	ug/L #	1
7) Acrolein	3.21	56	2985	1.10	ug/L #	93
8) Trichlorofluoromethane	2.30	101	4811	0.93	ug/L	93
9) Acetone	3.11	43	6012	5.30	ug/L #	91
10) 1,1-Dichloroethene	2.67	61	5443	0.80	ug/L	94
11) Acrylonitrile	3.55	53	6334	0.88	ug/L	96
12) Iodomethane	2.77	142	3607	0.57	ug/L #	88
13) Methylene Chloride	3.07	84	8775	1.81	ug/L #	80
14) Carbon Disulfide	2.69	76	10750	0.70	ug/L	90
15) trans-1,2-Dichloroethene	3.17	96	3273	0.80	ug/L	93
16) Methyl-tert-butyl ether	3.24	73	8079	0.90	ug/L #	95
17) 1,1-Dichloroethane	3.56	63	7419	0.88	ug/L	97
18) Vinyl Acetate	3.48	43	6162	1.04	ug/L #	100
19) N-Hexane	3.22	57	5428	0.89	ug/L #	88
20) n-Butanol	3.72	57	3162	0.96	ug/L #	89
21) 2-Butanone (MEK)	4.27	43	6006	3.99	ug/L #	82
22) cis-1,2-Dichloroethene	3.91	61	6440	1.04	ug/L #	85
23) Bromochloromethane	4.04	128	1559	0.71	ug/L #	85
24) Chloroform	4.07	83	7911	0.92	ug/L	99
25) 2,2-Dichloropropane	3.97	77	4066	0.62	ug/L #	88
28) 1,2-Dichloroethane	4.58	62	6197	0.95	ug/L #	96
29) 1,1,1-Trichloroethane	4.22	97	5891	0.90	ug/L	99
30) 1,1-Dichloropropene	4.29	75	5256	0.83	ug/L #	91
31) Carbon Tetrachloride	4.17	117	5077	0.91	ug/L	95
32) Benzene	4.45	78	14792	0.86	ug/L	95
33) Dibromomethane	5.12	93	2287	0.82	ug/L	90
34) 1,2-Dichloropropane	5.18	63	4291	0.93	ug/L #	94
35) Trichloroethene	4.82	95	4423	1.02	ug/L #	84
36) Bromodichloromethane	5.22	83	6820	0.99	ug/L #	95
37) 2-Chloroethyl-vinyl-ether	5.18	63	4291	3.73	ug/L #	97
38) cis-1,3-Dichloropropene	5.65	75	6955	0.87	ug/L	93
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	8673	2.46	ug/L #	85
40) trans-1,3-Dichloropropene	6.12	75	6626	0.93	ug/L	92
41) 1,1,2-Trichloroethane	6.24	83	2795	0.91	ug/L	96
43) Toluene	5.82	91	17794	1.06	ug/L	96
44) Ethyl Methacrylate	5.30	69	2246	0.83	ug/L #	78
45) 1,3-Dichloropropane	6.45	76	5793	0.82	ug/L #	80
46) 2-Hexanone	6.72	43	8654	3.38	ug/L #	93
48) Dibromochloromethane	6.38	129	4166	0.89	ug/L	97
49) 1,2-Dibromoethane (EDB)	6.57	107	3436	0.88	ug/L #	94

(#) = qualifier out of range (m) = manual integration
 0301003.D 020215RC.M Thu Feb 05 14:48:22 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0301003.D Vial: 3
 Acq On : 2 Feb 2015 8:46 am Operator: GJD
 Sample : 1ppb 8260 ical Inst : GC/MS #2
 Misc : ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:42 2015

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Thu Jan 29 17:20:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.11	166	3460	0.76	ug/L	97
51) 1,1,1,2-Tetrachloroethane	7.02	131	3801	0.91	ug/L #	81
52) Chlorobenzene	6.98	112	10221	0.92	ug/L #	72
53) Ethylbenzene	6.99	91	20213	0.99	ug/L #	88
54) m,p-Xylene	7.10	91	33874	2.16	ug/L	99
55) Bromoform	7.53	173	2281	0.87	ug/L #	91
56) Styrene	7.50	104	10560	0.86	ug/L #	88
57) 1,1,2,2-Tetrachloroethane	8.12	83	4082	0.84	ug/L #	94
58) o-Xylene	7.45	106	7177	1.01	ug/L	97
59) trans-1,4-Dichloro-2-buten	8.28	53	1331	0.90	ug/L #	74
60) 1,2,3-Trichloropropane	8.25	75	5243	0.89	ug/L #	100
61) Isopropylbenzene	7.71	105	15948	0.83	ug/L #	96
63) Bromobenzene	8.06	156	3953	0.93	ug/L	95
64) N-propylbenzene	8.06	91	21783	0.89	ug/L	99
65) 2-Chlorotoluene	8.21	91	14576	0.92	ug/L	98
66) 4-Chlorotoluene	8.36	126	3903	0.85	ug/L	88
68) 1,3,5-Trimethylbenzene	8.22	105	13422	0.96	ug/L	94
69) tert-Butylbenzene	8.51	119	13859	0.95	ug/L	98
70) 1,2,4-Trimethylbenzene	8.57	105	14029	0.96	ug/L #	93
71) sec-Butylbenzene	8.67	105	19251	0.99	ug/L #	94
72) 1,3-Dichlorobenzene	8.88	146	7198	0.92	ug/L	95
73) 1,4-Dichlorobenzene	8.88	148	4464	0.90	ug/L	93
74) p-Isopropyltoluene	8.79	119	15327	0.97	ug/L	95
75) 1,2-Dichlorobenzene	9.35	146	6589	0.91	ug/L	94
76) N-Butylbenzene	9.18	91	16344	1.01	ug/L	98
77) 1,2-Dibromo-3-chloropropan	10.10	155	404	0.70	ug/L #	67
78) 1,2,4-Trichlorobenzene	10.74	180	4469	1.01	ug/L #	94
79) Naphthalene	11.06	128	11395	1.09	ug/L #	96
80) Hexachloro-1,3-butadiene	10.69	225	2180	0.90	ug/L #	92
81) 1,2,3-Trichlorobenzene	11.24	180	3510	0.89	ug/L	97
82) 1-methylnaphthalene	12.10	142	5655	1.30	ug/L	97
83) 2-methylnaphthalene	12.10	142	5655	0.98	ug/L	99

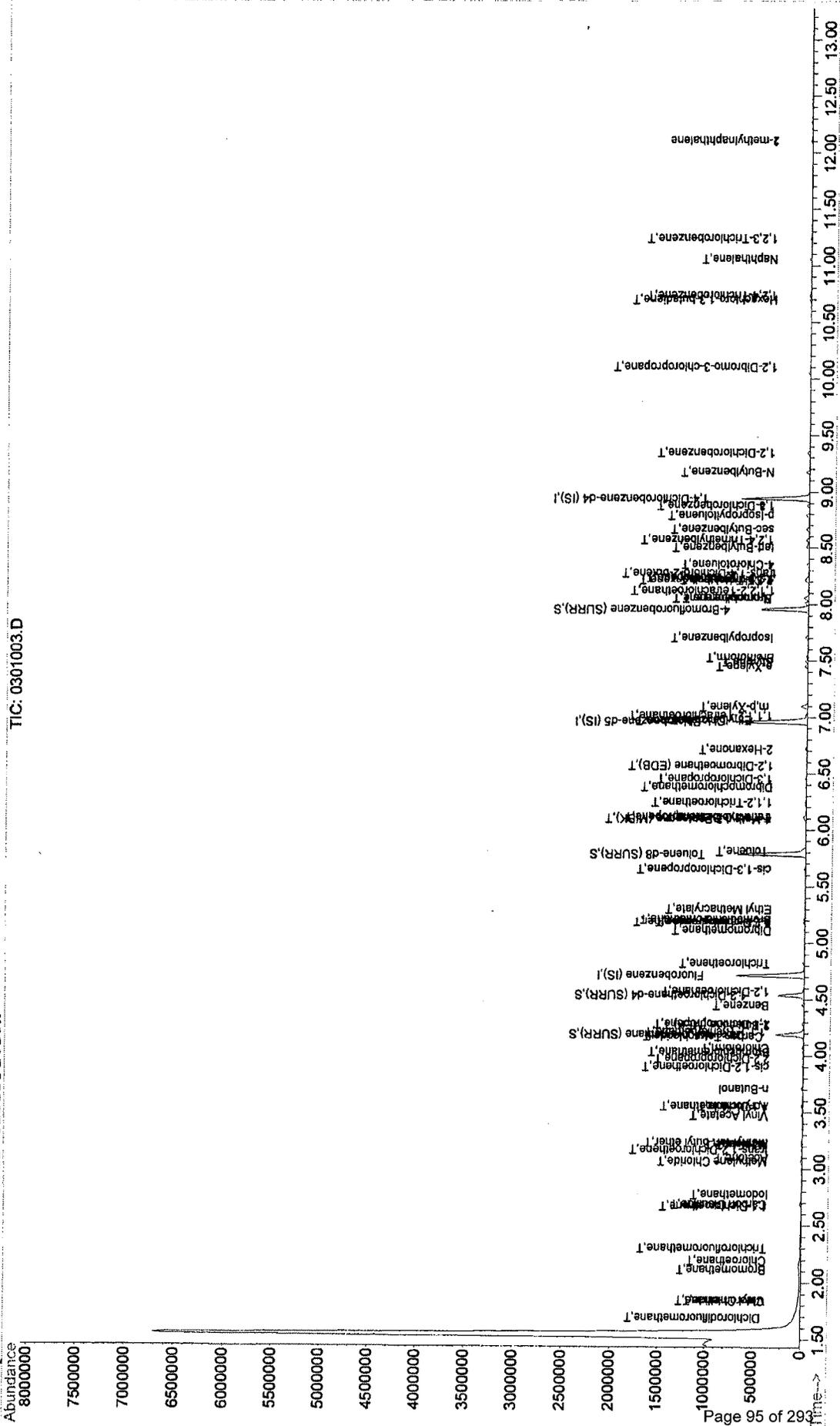
Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215C\0301003.D
 Acq On : 2 Feb 2015 8:46 am
 Sample : lppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:42 2015

Vial: 3
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0401004.D
 Acq On : 2 Feb 2015 9:07 am
 Sample : 5ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:52 2015

Vial: 4
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Thu Jan 29 17:20:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	465244	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	352760	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.95	152	159029	50.00	ug/L	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.19	113	136275	49.57	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	99.14%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	159649	50.69	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	101.38%
42) Toluene-d8 (SURR)	5.79	98	381275	47.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	94.28%
62) 4-Bromofluorobenzene (SURR)	7.96	95	161550	43.72	ug/L	0.01
Spiked Amount	50.000	Range	62 - 145	Recovery	=	87.44%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.74	85	27932m	4.36	ug/L	
3) Chloromethane	1.85	50	23878m	4.10	ug/L	
4) Vinyl Chloride	1.85	62	21363	4.16	ug/L #	86
5) Bromomethane	2.11	94	16527m	6.40	ug/L	
6) Chloroethane	2.20	64	13659m	6.91	ug/L	
7) Acrolein	3.22	56	14908	5.68	ug/L #	85
8) Trichlorofluoromethane	2.31	101	29822	5.99	ug/L	99
9) Acetone	3.11	43	15344	13.99	ug/L	95
10) 1,1-Dichloroethene	2.67	61	33404	5.09	ug/L	94
11) Acrylonitrile	3.55	53	36116	5.18	ug/L	98
12) Iodomethane	2.77	142	23368	3.83	ug/L #	97
13) Methylene Chloride	3.07	84	24748	5.28	ug/L	85
14) Carbon Disulfide	2.69	76	69096	4.65	ug/L	93
15) trans-1,2-Dichloroethene	3.17	96	17934	4.53	ug/L	93
16) Methyl-tert-butyl ether	3.24	73	40273	4.65	ug/L #	89
17) 1,1-Dichloroethane	3.57	63	42575	5.23	ug/L	97
18) Vinyl Acetate	3.48	43	28708	5.00	ug/L #	100
19) N-Hexane	3.22	57	31373	5.30	ug/L	97
20) n-Butanol	3.71	57	16003	5.01	ug/L #	96
21) 2-Butanone (MEK)	4.28	43	16226	11.16	ug/L	99
22) cis-1,2-Dichloroethene	3.91	61	31049	5.19	ug/L	92
23) Bromochloromethane	4.04	128	9394	4.44	ug/L #	95
24) Chloroform	4.07	83	40112	4.85	ug/L	94
25) 2,2-Dichloropropane	3.98	77	27544	4.35	ug/L	97
28) 1,2-Dichloroethane	4.58	62	33898	5.40	ug/L #	95
29) 1,1,1-Trichloroethane	4.22	97	33422	5.31	ug/L	99
30) 1,1-Dichloropropene	4.29	75	29991	4.92	ug/L	99
31) Carbon Tetrachloride	4.17	117	29860	5.57	ug/L	97
32) Benzene	4.45	78	76631	4.63	ug/L	96
33) Dibromomethane	5.12	93	13098	4.86	ug/L	96
34) 1,2-Dichloropropane	5.18	63	21660	4.86	ug/L	99
35) Trichloroethene	4.82	95	22040	5.26	ug/L	94
36) Bromodichloromethane	5.22	83	33893	5.12	ug/L	98
37) 2-Chloroethyl-vinyl-ether	5.18	63	21660	19.46	ug/L #	98
38) cis-1,3-Dichloropropene	5.65	75	35387	4.58	ug/L	93
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	38675	11.37	ug/L #	91
40) trans-1,3-Dichloropropene	6.12	75	32468	4.70	ug/L	95
41) 1,1,2-Trichloroethane	6.24	83	13594	4.58	ug/L	99
43) Toluene	5.83	91	78730	4.85	ug/L	98
44) Ethyl Methacrylate	5.30	69	11153	4.25	ug/L	94
45) 1,3-Dichloropropane	6.46	76	31923	4.70	ug/L	99
46) 2-Hexanone	6.72	43	28654	11.56	ug/L	99
48) Dibromochloromethane	6.38	129	22303	4.89	ug/L	98
49) 1,2-Dibromoethane (EDB)	6.58	107	17447	4.60	ug/L	98

(#) = qualifier out of range (m) = manual integration
 0401004.D 020215RC.M Thu Feb 05 14:48:25 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0401004.D
 Acq On : 2 Feb 2015 9:07 am
 Sample : 5ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:52 2015

Vial: 4
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

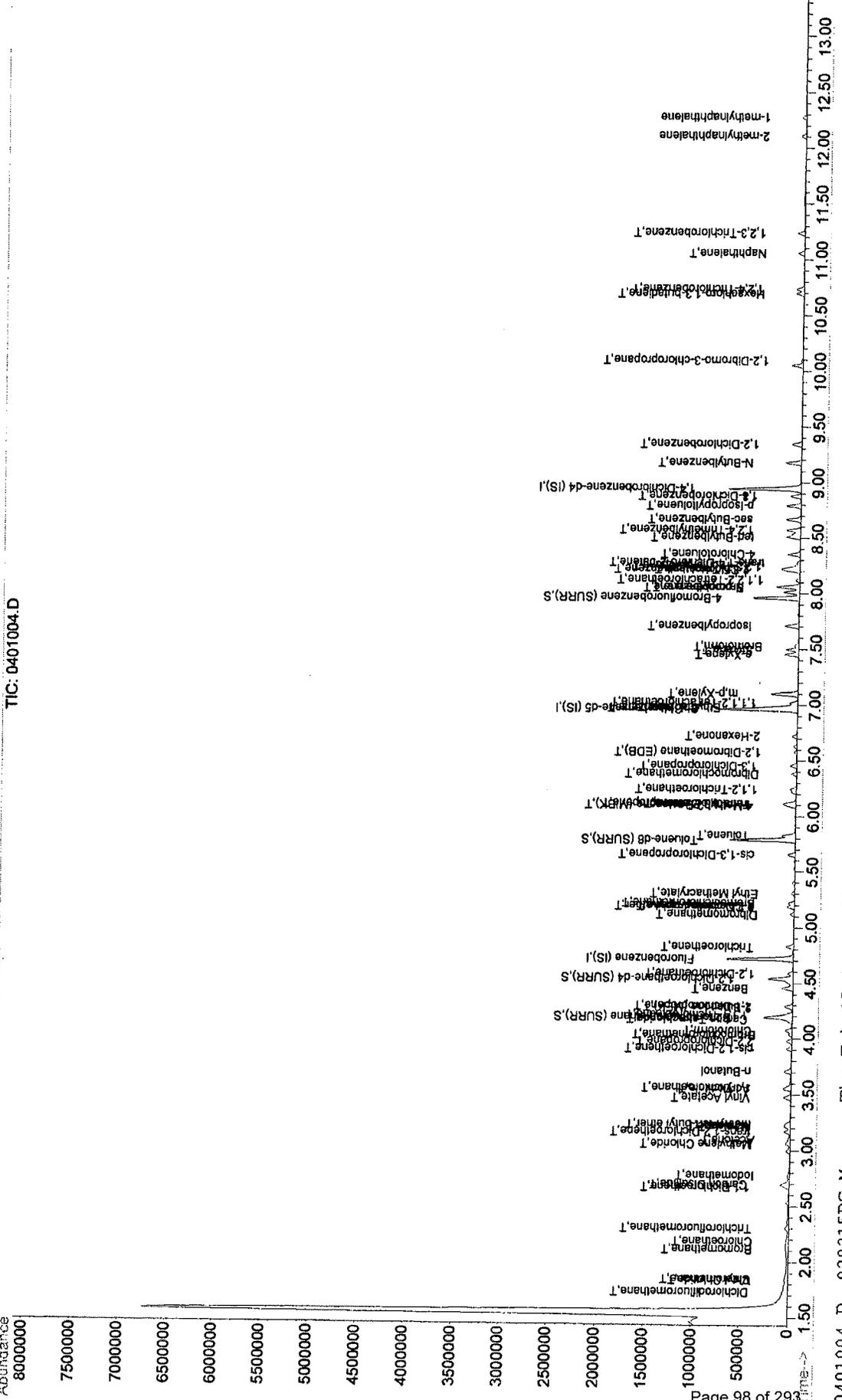
Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Thu Jan 29 17:20:40 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.11	166	20025	4.54	ug/L	96
51) 1,1,1,2-Tetrachloroethane	7.02	131	20231	4.98	ug/L	96
52) Chlorobenzene	6.98	112	52914	4.93	ug/L	93
53) Ethylbenzene	6.99	91	99143	5.01	ug/L	95
54) m,p-Xylene	7.10	91	150172	9.86	ug/L	99
55) Bromoform	7.53	173	11679	4.57	ug/L #	95
56) Styrene	7.50	104	56529	4.76	ug/L	97
57) 1,1,2,2-Tetrachloroethane	8.12	83	20641	4.40	ug/L	99
58) o-Xylene	7.45	106	32913	4.77	ug/L	95
59) trans-1,4-Dichloro-2-buten	8.28	53	6410	4.48	ug/L	94
60) 1,2,3-Trichloropropane	8.25	75	26287	4.61	ug/L #	99
61) Isopropylbenzene	7.71	105	90014	4.85	ug/L	98
63) Bromobenzene	8.06	156	19263	4.66	ug/L	95
64) N-propylbenzene	8.06	91	115496	4.86	ug/L	99
65) 2-Chlorotoluene	8.21	91	75887	4.95	ug/L	98
66) 4-Chlorotoluene	8.36	126	21114	4.75	ug/L	95
68) 1,3,5-Trimethylbenzene	8.22	105	72143	5.11	ug/L	99
69) tert-Butylbenzene	8.51	119	77613	5.26	ug/L	98
70) 1,2,4-Trimethylbenzene	8.57	105	71458	4.82	ug/L #	96
71) sec-Butylbenzene	8.67	105	102514	5.21	ug/L #	97
72) 1,3-Dichlorobenzene	8.88	146	38468	4.85	ug/L	96
73) 1,4-Dichlorobenzene	8.88	148	22995	4.55	ug/L	92
74) p-Isopropyltoluene	8.79	119	78654	4.90	ug/L	98
75) 1,2-Dichlorobenzene	9.35	146	34983	4.76	ug/L	98
76) N-Butylbenzene	9.18	91	83808	5.10	ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.10	155	2419	4.12	ug/L	95
78) 1,2,4-Trichlorobenzene	10.74	180	20765	4.62	ug/L	98
79) Naphthalene	11.06	128	45426	4.27	ug/L	99
80) Hexachloro-1,3-butadiene	10.70	225	12043	4.88	ug/L	97
81) 1,2,3-Trichlorobenzene	11.24	180	18797	4.71	ug/L	95
82) 1-methylnaphthalene	12.27	142	18296	4.13	ug/L	99
83) 2-methylnaphthalene	12.10	142	23887	4.09	ug/L	100

Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215C\0401004.D
Acq On : 2 Feb 2015 9:07 am
Sample : 5ppb 8260 ical
Misc : ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:52 2015
Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration



TIC: 0401004.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0501005.D
 Acq On : 2 Feb 2015 9:27 am
 Sample : 10ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:52 2015

Vial: 5
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:47:50 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	460100	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	351760	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	157382	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.19	113	133340	49.25	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	98.50%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	154301	49.42	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	98.84%
42) Toluene-d8 (SURR)	5.78	98	379376	47.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	95.58%
62) 4-Bromofluorobenzene (SURR)	7.96	95	162054	44.92	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	89.84%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.71	85	65584m	10.40	ug/L	
4) Vinyl Chloride	1.84	62	50207	10.43	ug/L	100
5) Bromomethane	2.09	94	32286m	13.51	ug/L	
6) Chloroethane	2.19	64	30225m	15.21	ug/L	
7) Acrolein	3.21	56	35429	13.14	ug/L #	98
8) Trichlorofluoromethane	2.29	101	70651	13.65	ug/L	98
9) Acetone	3.10	43	27426	24.94	ug/L #	95
10) 1,1-Dichloroethene	2.67	61	78910	11.95	ug/L	95
11) Acrylonitrile	3.55	53	82409	11.71	ug/L	98
12) Iodomethane	2.77	142	56765	9.45	ug/L	100
13) Methylene Chloride	3.06	84	46301	10.17	ug/L	89
14) Carbon Disulfide	2.69	76	154620	10.51	ug/L	89
15) trans-1,2-Dichloroethene	3.17	96	42280	10.82	ug/L	94
16) Methyl-tert-butyl ether	3.24	73	83097	9.77	ug/L #	81
17) 1,1-Dichloroethane	3.56	63	91609	11.02	ug/L	100
18) Vinyl Acetate	3.47	43	59487	10.46	ug/L #	100
19) N-Hexane	3.21	57	71665	12.04	ug/L	94
20) n-Butanol	3.71	57	32458	10.21	ug/L #	98
21) 2-Butanone (MEK)	4.27	43	32803	23.55	ug/L	95
22) cis-1,2-Dichloroethene	3.90	61	69617	11.62	ug/L	93
23) Bromochloromethane	4.04	128	21187	10.23	ug/L #	98
24) Chloroform	4.07	83	89272	10.82	ug/L	97
25) 2,2-Dichloropropane	3.98	77	66963	10.63	ug/L	97
28) 1,2-Dichloroethane	4.58	62	69996	11.06	ug/L	99
29) 1,1,1-Trichloroethane	4.21	97	77588	12.12	ug/L	99
30) 1,1-Dichloropropene	4.29	75	69585	11.39	ug/L	98
31) Carbon Tetrachloride	4.17	117	66364	12.06	ug/L	98
32) Benzene	4.45	78	165697	10.12	ug/L	96
33) Dibromomethane	5.11	93	27263	10.19	ug/L	97
34) 1,2-Dichloropropane	5.19	63	47233	10.67	ug/L	94
35) Trichloroethene	4.82	95	47333	11.20	ug/L	97
36) Bromodichloromethane	5.21	83	74056	11.12	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.19	63	47233	42.67	ug/L #	99
38) cis-1,3-Dichloropropene	5.65	75	78665	10.34	ug/L	95
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	81242	24.68	ug/L	98
40) trans-1,3-Dichloropropene	6.12	75	70920	10.48	ug/L	97
41) 1,1,2-Trichloroethane	6.24	83	28775	9.87	ug/L	99
43) Toluene	5.83	91	170725	10.70	ug/L	100
44) Ethyl Methacrylate	5.30	69	25285	9.94	ug/L	98
45) 1,3-Dichloropropane	6.45	76	66091	9.91	ug/L	97
46) 2-Hexanone	6.71	43	57587	24.12	ug/L	100
48) Dibromochloromethane	6.38	129	46589	10.19	ug/L	98
49) 1,2-Dibromoethane (EDB)	6.58	107	37297	9.95	ug/L	99
50) Tetrachloroethene	6.11	166	45478	10.26	ug/L	96

(#) = qualifier out of range (m) = manual integration
 0501005.D 020215RC.M Thu Feb 05 14:48:30 2015

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0501005.D
 Acq On : 2 Feb 2015 9:27 am
 Sample : 10ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:52 2015

Vial: 5
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:47:50 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 1,1,1,2-Tetrachloroethane	7.02	131	43194	10.57	ug/L	96
52) Chlorobenzene	6.98	112	115300	10.70	ug/L	97
53) Ethylbenzene	6.98	91	217244	10.94	ug/L	97
54) m,p-Xylene	7.10	91	332927	21.88	ug/L	100
55) Bromoform	7.53	173	24838	9.76	ug/L #	96
56) Styrene	7.49	104	122765	10.31	ug/L	99
57) 1,1,2,2-Tetrachloroethane	8.12	83	43582	9.49	ug/L	97
58) o-Xylene	7.45	106	72420	10.55	ug/L	99
59) trans-1,4-Dichloro-2-buten	8.28	53	13715	9.76	ug/L	100
60) 1,2,3-Trichloropropane	8.25	75	55466	9.94	ug/L #	100
61) Isopropylbenzene	7.70	105	202296	10.84	ug/L	99
63) Bromobenzene	8.05	156	43134	10.51	ug/L	99
64) N-propylbenzene	8.06	91	263977	11.05	ug/L	99
65) 2-Chlorotoluene	8.21	91	166135	10.75	ug/L	98
66) 4-Chlorotoluene	8.35	126	47365	10.70	ug/L	99
68) 1,3,5-Trimethylbenzene	8.22	105	159217	11.28	ug/L	98
69) tert-Butylbenzene	8.51	119	173242	11.63	ug/L	99
70) 1,2,4-Trimethylbenzene	8.57	105	155925	10.77	ug/L #	98
71) sec-Butylbenzene	8.67	105	226324	11.38	ug/L #	97
72) 1,3-Dichlorobenzene	8.88	146	84067	10.68	ug/L	97
73) 1,4-Dichlorobenzene	8.88	148	52743	10.67	ug/L	96
74) p-Isopropyltoluene	8.79	119	183993	11.49	ug/L	98
75) 1,2-Dichlorobenzene	9.34	146	76273	10.46	ug/L	99
76) N-Butylbenzene	9.18	91	192421	11.63	ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.09	155	5484	9.79	ug/L	95
78) 1,2,4-Trichlorobenzene	10.73	180	45395	10.35	ug/L	96
79) Naphthalene	11.05	128	97168	9.68	ug/L	99
80) Hexachloro-1,3-butadiene	10.70	225	27725	11.27	ug/L	99
81) 1,2,3-Trichlorobenzene	11.24	180	40682	10.35	ug/L	97
82) 1-methylnaphthalene	12.27	142	41338	9.75	ug/L	98
83) 2-methylnaphthalene	12.10	142	52978	9.53	ug/L	97

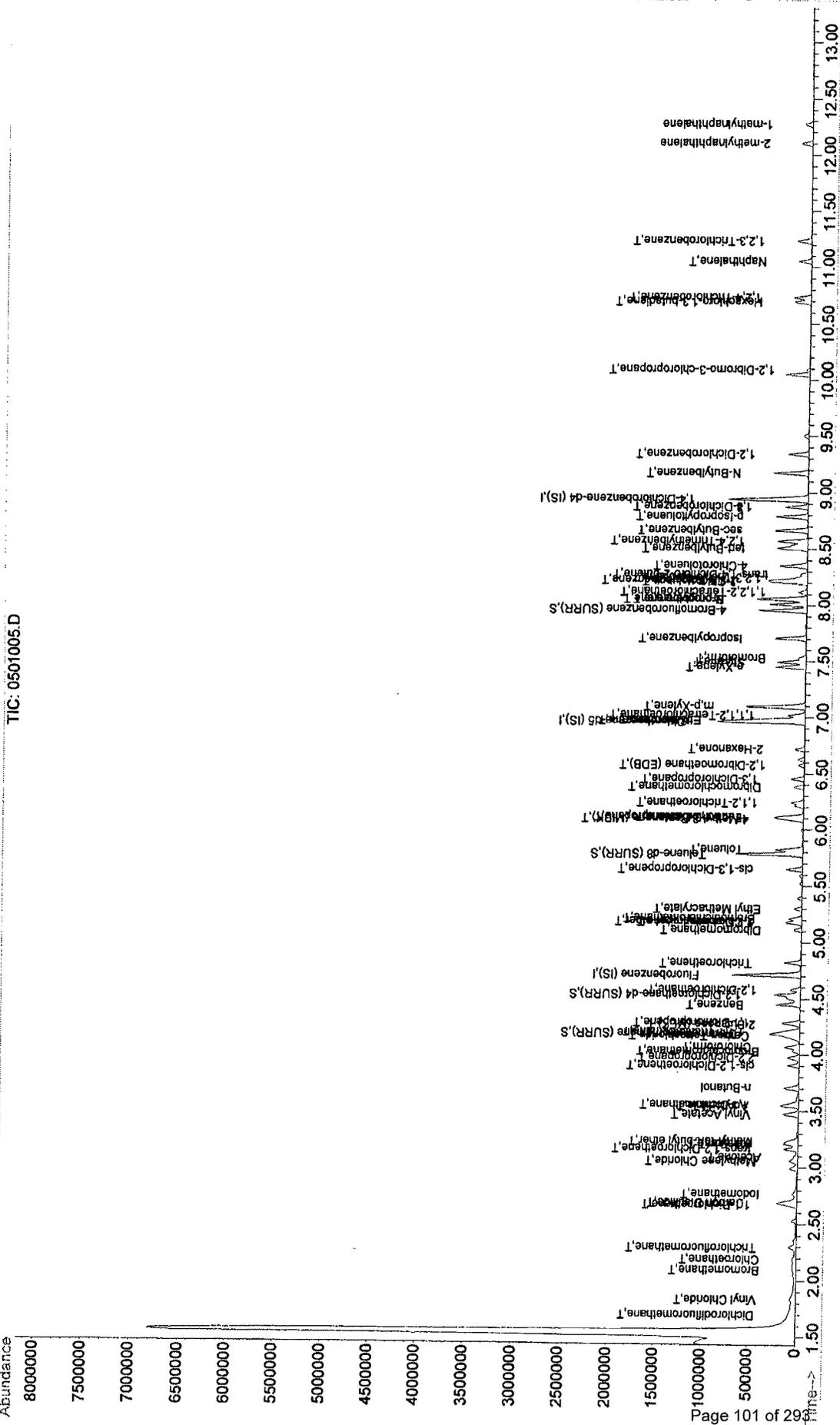
Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215RC\0501005.D
 Acq On : 2 Feb 2015 9:27 am
 Sample : 10ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:52 2015

Vial: 5
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0601006.D
 Acq On : 2 Feb 2015 9:47 am
 Sample : 20ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:49 2015

Vial: 6
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:48:42 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	462472	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	349672	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	155500	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.19	113	131786	48.74	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	97.48%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	156826	50.07	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	100.14%
42) Toluene-d8 (SURR)	5.79	98	372500	47.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	94.26%
62) 4-Bromofluorobenzene (SURR)	7.96	95	161545	45.78	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	91.56%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.73	85	126729m	19.80	ug/L	
3) Chloromethane	1.84	50	101775m	17.75	ug/L	
4) Vinyl Chloride	1.84	62	95646	19.72	ug/L	100
5) Bromomethane	2.09	94	55267m	23.12	ug/L	
6) Chloroethane	2.19	64	51844m	24.95	ug/L	
7) Acrolein	3.22	56	66298	22.99	ug/L	96
8) Trichlorofluoromethane	2.30	101	135005	24.17	ug/L	99
9) Acetone	3.10	43	49918	46.11	ug/L #	94
10) 1,1-Dichloroethene	2.67	61	154404	22.42	ug/L	95
11) Acrylonitrile	3.55	53	160129	21.75	ug/L	99
12) Iodomethane	2.77	142	123289	20.25	ug/L	100
13) Methylene Chloride	3.06	84	89306	19.50	ug/L	93
14) Carbon Disulfide	2.68	76	301866	20.16	ug/L	89
15) trans-1,2-Dichloroethene	3.16	96	81373	20.28	ug/L	95
16) Methyl-tert-butyl ether	3.24	73	167504	19.48	ug/L	85
17) 1,1-Dichloroethane	3.57	63	178101	20.70	ug/L	99
18) Vinyl Acetate	3.48	43	118126	20.40	ug/L #	100
19) N-Hexane	3.22	57	139252	22.46	ug/L	97
20) n-Butanol	3.70	57	63055	19.58	ug/L #	98
21) 2-Butanone (MEK)	4.27	43	64175	46.06	ug/L	96
22) cis-1,2-Dichloroethene	3.91	61	132009	21.12	ug/L	95
23) Bromochloromethane	4.04	128	42909	20.34	ug/L #	99
24) Chloroform	4.07	83	172824	20.28	ug/L	96
25) 2,2-Dichloropropane	3.98	77	138810	21.66	ug/L	95
28) 1,2-Dichloroethane	4.58	62	138523	21.04	ug/L	98
29) 1,1,1-Trichloroethane	4.21	97	150572	22.27	ug/L	99
30) 1,1-Dichloropropene	4.29	75	132607	20.89	ug/L	99
31) Carbon Tetrachloride	4.17	117	128706	22.16	ug/L	99
32) Benzene	4.45	78	324025	19.42	ug/L	96
33) Dibromomethane	5.12	93	52761	19.31	ug/L	99
34) 1,2-Dichloropropane	5.18	63	91652	20.14	ug/L	96
35) Trichloroethene	4.82	95	90561	20.53	ug/L	99
36) Bromodichloromethane	5.21	83	141202	20.41	ug/L	98
37) 2-Chloroethyl-vinyl-ether	5.18	63	91652	80.57	ug/L #	99
38) cis-1,3-Dichloropropene	5.65	75	155062	19.97	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	157367	47.58	ug/L	100
40) trans-1,3-Dichloropropene	6.12	75	138530	20.02	ug/L	96
41) 1,1,2-Trichloroethane	6.24	83	56651	19.23	ug/L	99
43) Toluene	5.82	91	327451	20.03	ug/L	99
44) Ethyl Methacrylate	5.31	69	47077	18.29	ug/L	91
45) 1,3-Dichloropropane	6.46	76	130053	19.20	ug/L	99
46) 2-Hexanone	6.72	43	116129	48.84	ug/L	97
48) Dibromochloromethane	6.38	129	94441	20.38	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.57	107	74351	19.77	ug/L	98

(#) = qualifier out of range (m) = manual integration
 0601006.D 020215RC.M Thu Feb 05 14:48:34 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215\0601006.D Vial: 6
 Acq On : 2 Feb 2015 9:47 am Operator: GJD
 Sample : 20ppb 8260 ical Inst : GC/MS #2
 Misc : ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:49 2015 Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:48:42 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

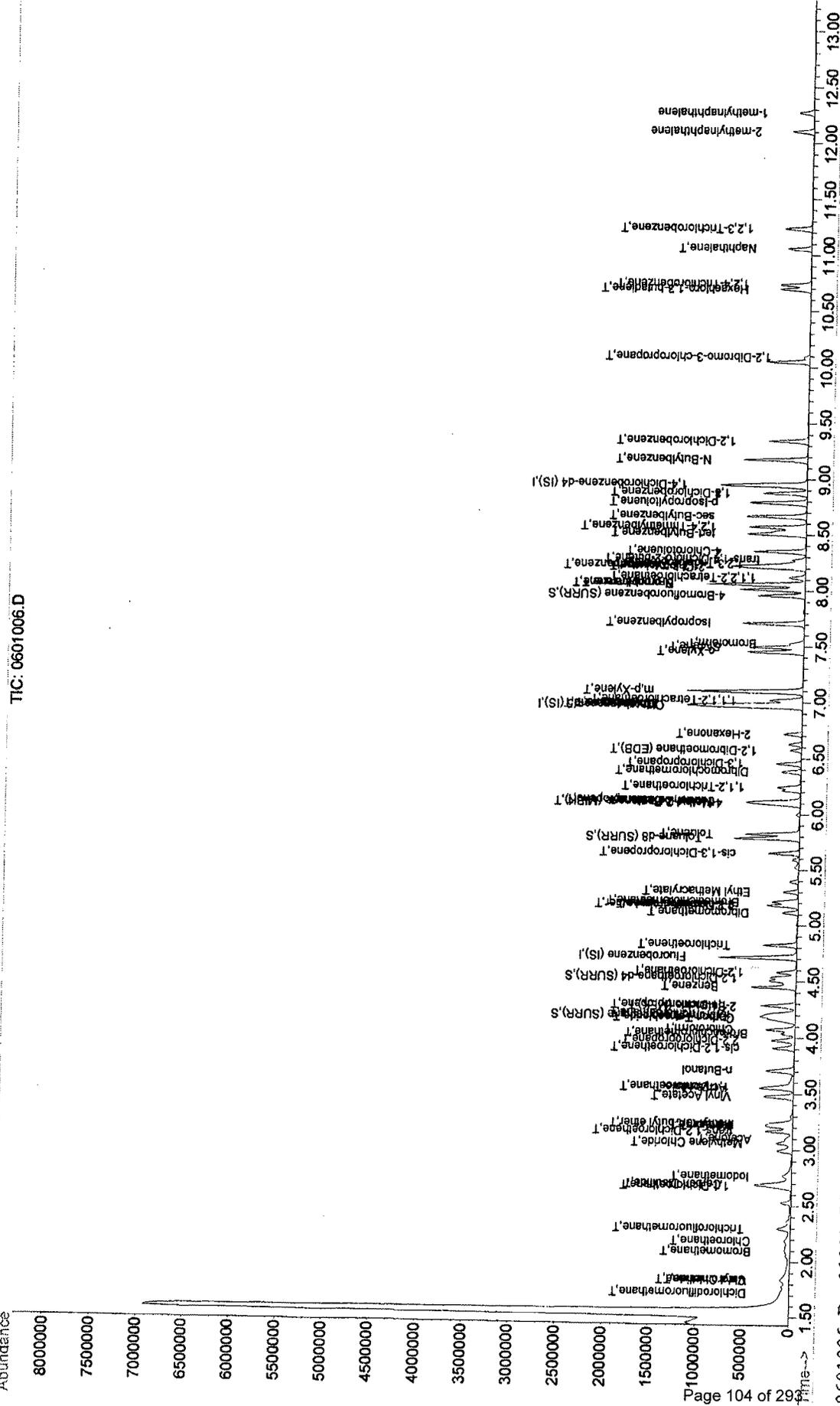
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.11	166	89311	19.97	ug/L	98
51) 1,1,1,2-Tetrachloroethane	7.02	131	84227	20.23	ug/L	99
52) Chlorobenzene	6.97	112	227060	20.72	ug/L	99
53) Ethylbenzene	6.99	91	415415	20.50	ug/L	98
54) m,p-Xylene	7.10	91	635233	40.94	ug/L	100
55) Bromoform	7.53	173	49957	19.53	ug/L #	99
56) Styrene	7.50	104	234816	19.44	ug/L	97
57) 1,1,2,2-Tetrachloroethane	8.12	83	85839	18.79	ug/L	96
58) o-Xylene	7.45	106	139344	20.04	ug/L	96
59) trans-1,4-Dichloro-2-buten	8.28	53	28954	20.57	ug/L	96
60) 1,2,3-Trichloropropane	8.25	75	108285	18.88	ug/L #	97
61) Isopropylbenzene	7.71	105	392662	20.52	ug/L	99
63) Bromobenzene	8.06	156	83161	19.95	ug/L	98
64) N-propylbenzene	8.06	91	500507	20.43	ug/L	99
65) 2-Chlorotoluene	8.20	91	318607	20.19	ug/L	99
66) 4-Chlorotoluene	8.35	126	88179	19.53	ug/L	96
68) 1,3,5-Trimethylbenzene	8.22	105	307480	21.35	ug/L	99
69) tert-Butylbenzene	8.51	119	326969	21.47	ug/L	99
70) 1,2,4-Trimethylbenzene	8.57	105	306598	21.08	ug/L #	99
71) sec-Butylbenzene	8.66	105	437231	21.44	ug/L #	99
72) 1,3-Dichlorobenzene	8.87	146	161934	20.37	ug/L	97
73) 1,4-Dichlorobenzene	8.87	148	102130	20.51	ug/L	97
74) p-Isopropyltoluene	8.79	119	347600	21.22	ug/L	99
75) 1,2-Dichlorobenzene	9.34	146	149505	20.40	ug/L	99
76) N-Butylbenzene	9.17	91	360487	21.21	ug/L	100
77) 1,2-Dibromo-3-chloropropan	10.09	155	11071	19.83	ug/L	95
78) 1,2,4-Trichlorobenzene	10.74	180	87546	19.90	ug/L	99
79) Naphthalene	11.06	128	186026	18.80	ug/L	100
80) Hexachloro-1,3-butadiene	10.69	225	54014	21.58	ug/L	97
81) 1,2,3-Trichlorobenzene	11.23	180	77590	19.72	ug/L	98
82) 1-methylnaphthalene	12.27	142	77720	18.65	ug/L	99
83) 2-methylnaphthalene	12.10	142	107227	19.61	ug/L	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215\0601006.D
Acq On : 2 Feb 2015 9:47 am
Sample : 20ppb 8260 ical
Misc : ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:49 2015

Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voc analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration



TIC: 0601006.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0701007.D
 Acq On : 2 Feb 2015 10:08 am
 Sample : 50ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:49 2015

Vial: 7
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:49:20 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	481946	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	363393	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	165037	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.19	113	137614	49.05	ug/L	0.00
Spiked Amount	50.000	Range 69 - 137	Recovery =	98.10%		
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	172138	52.85	ug/L	0.00
Spiked Amount	50.000	Range 67 - 144	Recovery =	105.70%		
42) Toluene-d8 (SURR)	5.78	98	392870	48.31	ug/L	0.00
Spiked Amount	50.000	Range 60 - 128	Recovery =	96.62%		
62) 4-Bromofluorobenzene (SURR)	7.95	95	171609	47.75	ug/L	0.00
Spiked Amount	50.000	Range 62 - 145	Recovery =	95.50%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.71	85	309837m	46.39	ug/L	
3) Chloromethane	1.84	50	252328m	43.02	ug/L	
4) Vinyl Chloride	1.84	62	240694m	47.89	ug/L	
5) Bromomethane	2.10	94	153146	60.59	ug/L #	68
6) Chloroethane	2.19	64	118745	52.90	ug/L	96
7) Acrolein	3.21	56	165559	52.99	ug/L #	100
8) Trichlorofluoromethane	2.30	101	318806	52.39	ug/L	99
9) Acetone	3.10	43	117521	104.82	ug/L #	94
10) 1,1-Dichloroethene	2.67	61	377278	50.90	ug/L	96
11) Acrylonitrile	3.55	53	396164	50.23	ug/L	99
12) Iodomethane	2.77	142	327800	51.24	ug/L	100
13) Methylene Chloride	3.06	84	211567	44.32	ug/L	93
14) Carbon Disulfide	2.68	76	745759	47.45	ug/L	90
15) trans-1,2-Dichloroethene	3.16	96	206357	48.84	ug/L	97
16) Methyl-tert-butyl ether	3.24	73	428494	47.66	ug/L	87
17) 1,1-Dichloroethane	3.56	63	449836	49.35	ug/L	99
18) Vinyl Acetate	3.48	43	295040	48.34	ug/L #	100
19) N-Hexane	3.21	57	347490	52.09	ug/L	97
20) n-Butanol	3.70	57	163324	48.59	ug/L #	98
21) 2-Butanone (MEK)	4.27	43	162415	112.71	ug/L	100
22) cis-1,2-Dichloroethene	3.91	61	326985	49.15	ug/L	97
23) Bromochloromethane	4.04	128	107789	48.57	ug/L #	98
24) Chloroform	4.07	83	439505	48.62	ug/L	99
25) 2,2-Dichloropropane	3.98	77	365824	52.95	ug/L	98
28) 1,2-Dichloroethane	4.58	62	346951	49.47	ug/L	97
29) 1,1,1-Trichloroethane	4.21	97	372380	50.99	ug/L	99
30) 1,1-Dichloropropene	4.28	75	328045	48.62	ug/L	99
31) Carbon Tetrachloride	4.17	117	322374	51.33	ug/L	99
32) Benzene	4.45	78	825653	47.27	ug/L	98
33) Dibromomethane	5.11	93	135739	47.57	ug/L	98
34) 1,2-Dichloropropane	5.18	63	227933	47.67	ug/L	94
35) Trichloroethene	4.82	95	230206	49.16	ug/L	98
36) Bromodichloromethane	5.22	83	359646	49.02	ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.18	63	227933	190.68	ug/L #	100
38) cis-1,3-Dichloropropene	5.65	75	395580	48.51	ug/L	97
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	396061	115.61	ug/L	99
40) trans-1,3-Dichloropropene	6.12	75	354645	48.82	ug/L	98
41) 1,1,2-Trichloroethane	6.24	83	143788	46.85	ug/L	99
43) Toluene	5.82	91	824050	47.88	ug/L	99
44) Ethyl Methacrylate	5.30	69	124700	46.86	ug/L	95
45) 1,3-Dichloropropane	6.45	76	330278	46.78	ug/L	99
46) 2-Hexanone	6.72	43	291097	118.22	ug/L	99
48) Dibromochloromethane	6.38	129	238622	48.76	ug/L	100
49) 1,2-Dibromoethane (EDB)	6.58	107	187396	47.59	ug/L	99

(#) = qualifier out of range (m) = manual integration
 0701007.D 020215RC.M Thu Feb 05 14:48:38 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0701007.D
 Acq On : 2 Feb 2015 10:08 am
 Sample : 50ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:49 2015

Vial: 7
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:49:20 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene	6.10	166	229548	48.97 ug/L	98
51) 1,1,1,2-Tetrachloroethane	7.02	131	211697	48.35 ug/L	98
52) Chlorobenzene	6.98	112	559689	48.49 ug/L	99
53) Ethylbenzene	6.99	91	1025177	48.00 ug/L	99
54) m,p-Xylene	7.09	91	1573457	96.15 ug/L	100
55) Bromoform	7.52	173	129611	48.59 ug/L	99
56) Styrene	7.50	104	597444	47.31 ug/L	98
57) 1,1,2,2-Tetrachloroethane	8.12	83	217952	46.12 ug/L	98
58) o-Xylene	7.45	106	349402	48.00 ug/L	98
59) trans-1,4-Dichloro-2-buten	8.27	53	72928	49.11 ug/L	97
60) 1,2,3-Trichloropropane	8.24	75	279071	46.92 ug/L #	97
61) Isopropylbenzene	7.71	105	989262	48.84 ug/L	99
63) Bromobenzene	8.06	156	206285	47.27 ug/L	99
64) N-propylbenzene	8.06	91	1247614	48.20 ug/L	99
65) 2-Chlorotoluene	8.21	91	801945	48.32 ug/L	99
66) 4-Chlorotoluene	8.35	126	225924	47.84 ug/L	98
68) 1,3,5-Trimethylbenzene	8.22	105	769564	49.23 ug/L	99
69) tert-Butylbenzene	8.51	119	839148	50.61 ug/L	99
70) 1,2,4-Trimethylbenzene	8.57	105	767172	48.87 ug/L #	98
71) sec-Butylbenzene	8.67	105	1102225	49.59 ug/L #	98
72) 1,3-Dichlorobenzene	8.88	146	409861	47.95 ug/L	98
73) 1,4-Dichlorobenzene	8.88	148	258690	48.52 ug/L	97
74) p-Isopropyltoluene	8.79	119	886247	49.80 ug/L	99
75) 1,2-Dichlorobenzene	9.34	146	380547	48.36 ug/L	99
76) N-Butylbenzene	9.18	91	909420	49.30 ug/L	100
77) 1,2-Dibromo-3-chloropropan	10.09	155	29342	49.28 ug/L	97
78) 1,2,4-Trichlorobenzene	10.73	180	229801	48.93 ug/L	99
79) Naphthalene	11.06	128	466562	44.47 ug/L	99
80) Hexachloro-1,3-butadiene	10.69	225	138537	50.85 ug/L	99
81) 1,2,3-Trichlorobenzene	11.24	180	200065	47.71 ug/L	100
82) 1-methylnaphthalene	12.27	142	202220	46.20 ug/L	99
83) 2-methylnaphthalene	12.10	142	279734	48.50 ug/L	99

(#) = qualifier out of range (m) = manual integration
 0701007.D 020215RC.M Thu Feb 05 14:48:38 2015

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0801008.D
 Acq On : 2 Feb 2015 10:28 am
 Sample : 100ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:50 2015

Vial: 8
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:50:05 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	495399	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	375312	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	174008	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.19	113	137104	47.81	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	95.62%
27) 1,2-Dichloroethane-d4 (SUR)	4.53	65	168351	49.75	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	99.50%
42) Toluene-d8 (SURR)	5.79	98	400942	48.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	97.14%
62) 4-Bromofluorobenzene (SURR)	7.96	95	173952	47.59	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	95.18%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.72	85	621002m	92.41	ug/L	
3) Chloromethane	1.84	50	505873m	87.65	ug/L	
4) Vinyl Chloride	1.83	62	494294m	98.42	ug/L	
5) Bromomethane	2.10	94	298108	112.90	ug/L #	98
6) Chloroethane	2.18	64	215376m	92.17	ug/L	
7) Acrolein	3.21	56	327268	99.87	ug/L	100
8) Trichlorofluoromethane	2.28	101	618790	97.65	ug/L	98
9) Acetone	3.10	43	237337	211.30	ug/L #	97
10) 1,1-Dichloroethene	2.66	61	756314	98.77	ug/L	100
11) Acrylonitrile	3.54	53	807507	99.45	ug/L	99
12) Iodomethane	2.77	142	705236	108.08	ug/L	100
13) Methylene Chloride	3.06	84	424941	88.45	ug/L	99
14) Carbon Disulfide	2.68	76	1499397	94.53	ug/L	100
15) trans-1,2-Dichloroethene	3.17	96	413380	96.42	ug/L	100
16) Methyl-tert-butyl ether	3.24	73	888283	97.46	ug/L	96
17) 1,1-Dichloroethane	3.57	63	898059	96.14	ug/L	99
18) Vinyl Acetate	3.48	43	588413	94.64	ug/L #	100
19) N-Hexane	3.22	57	691482	99.66	ug/L	100
20) n-Butanol	3.70	57	325056	95.19	ug/L	98
21) 2-Butanone (MEK)	4.27	43	326149	227.72	ug/L	96
22) cis-1,2-Dichloroethene	3.91	61	659598	96.95	ug/L	100
23) Bromochloromethane	4.04	128	216859	96.25	ug/L #	100
24) Chloroform	4.08	83	889585	96.01	ug/L	99
25) 2,2-Dichloropropane	3.97	77	766047	107.21	ug/L	99
28) 1,2-Dichloroethane	4.59	62	715739	99.10	ug/L	100
29) 1,1,1-Trichloroethane	4.21	97	749518	98.95	ug/L	100
30) 1,1-Dichloropropene	4.29	75	665741	96.61	ug/L	100
31) Carbon Tetrachloride	4.16	117	662399	101.59	ug/L	99
32) Benzene	4.45	78	1660852	94.14	ug/L	100
33) Dibromomethane	5.12	93	282442	97.77	ug/L	97
34) 1,2-Dichloropropane	5.18	63	455801	94.18	ug/L	98
35) Trichloroethene	4.83	95	459062	95.69	ug/L	98
36) Bromodichloromethane	5.21	83	729525	97.09	ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.18	63	455801	376.73	ug/L #	100
38) cis-1,3-Dichloropropene	5.65	75	795450	96.11	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	778795	227.08	ug/L	99
40) trans-1,3-Dichloropropene	6.12	75	711125	96.23	ug/L	99
41) 1,1,2-Trichloroethane	6.25	83	291406	94.26	ug/L	99
43) Toluene	5.82	91	1684537	96.19	ug/L	100
44) Ethyl Methacrylate	5.31	69	256494	96.13	ug/L	98
45) 1,3-Dichloropropane	6.46	76	676088	94.85	ug/L	99
46) 2-Hexanone	6.72	43	583665	235.33	ug/L	100
48) Dibromochloromethane	6.38	129	491027	97.75	ug/L	100
49) 1,2-Dibromoethane (EDB)	6.57	107	386296	96.13	ug/L	99

(#) = qualifier out of range (m) = manual integration
 0801008.D 020215RC.M Thu Feb 05 14:48:42 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0801008.D
 Acq On : 2 Feb 2015 10:28 am
 Sample : 100ppb 8260 ical
 Misc : ical
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:50 2015

Vial: 8
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:50:05 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.11	166	465875	97.24	ug/L	99
51) 1,1,1,2-Tetrachloroethane	7.02	131	436787	97.33	ug/L	99
52) Chlorobenzene	6.97	112	1131804	95.79	ug/L	99
53) Ethylbenzene	6.99	91	2093814	95.74	ug/L	99
54) m,p-Xylene	7.10	91	3222703	192.42	ug/L	100
55) Bromoform	7.53	173	262846	96.50	ug/L	98
56) Styrene	7.50	104	1223498	95.13	ug/L	99
57) 1,1,2,2-Tetrachloroethane	8.12	83	441990	92.72	ug/L	100
58) o-Xylene	7.45	106	703575	94.54	ug/L	98
59) trans-1,4-Dichloro-2-buten	8.28	53	152313	100.38	ug/L	99
60) 1,2,3-Trichloropropane	8.25	75	569001	94.57	ug/L #	98
61) Isopropylbenzene	7.71	105	2027278	97.25	ug/L	100
63) Bromobenzene	8.05	156	428232	96.36	ug/L	97
64) N-propylbenzene	8.06	91	2537991	95.64	ug/L	99
65) 2-Chlorotoluene	8.20	91	1624076	95.47	ug/L	100
66) 4-Chlorotoluene	8.35	126	469594	97.57	ug/L	100
68) 1,3,5-Trimethylbenzene	8.23	105	1562494	94.76	ug/L	100
69) tert-Butylbenzene	8.51	119	1689739	96.07	ug/L	100
70) 1,2,4-Trimethylbenzene	8.57	105	1582706	96.00	ug/L #	99
71) sec-Butylbenzene	8.67	105	2249943	95.79	ug/L #	100
72) 1,3-Dichlorobenzene	8.87	146	856984	96.12	ug/L	100
73) 1,4-Dichlorobenzene	8.87	148	540611	97.06	ug/L	100
74) p-Isopropyltoluene	8.79	119	1833396	97.58	ug/L	100
75) 1,2-Dichlorobenzene	9.34	146	785137	95.47	ug/L	99
76) N-Butylbenzene	9.17	91	1866207	96.03	ug/L	100
77) 1,2-Dibromo-3-chloropropan	10.09	155	60643	97.69	ug/L	97
78) 1,2,4-Trichlorobenzene	10.74	180	470388	96.20	ug/L	97
79) Naphthalene	11.05	128	947605	87.41	ug/L	99
80) Hexachloro-1,3-butadiene	10.69	225	281319	97.68	ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	415125	95.18	ug/L	100
82) 1-methylnaphthalene	12.27	142	405721	90.70	ug/L	100
83) 2-methylnaphthalene	12.10	142	566769	95.89	ug/L	99

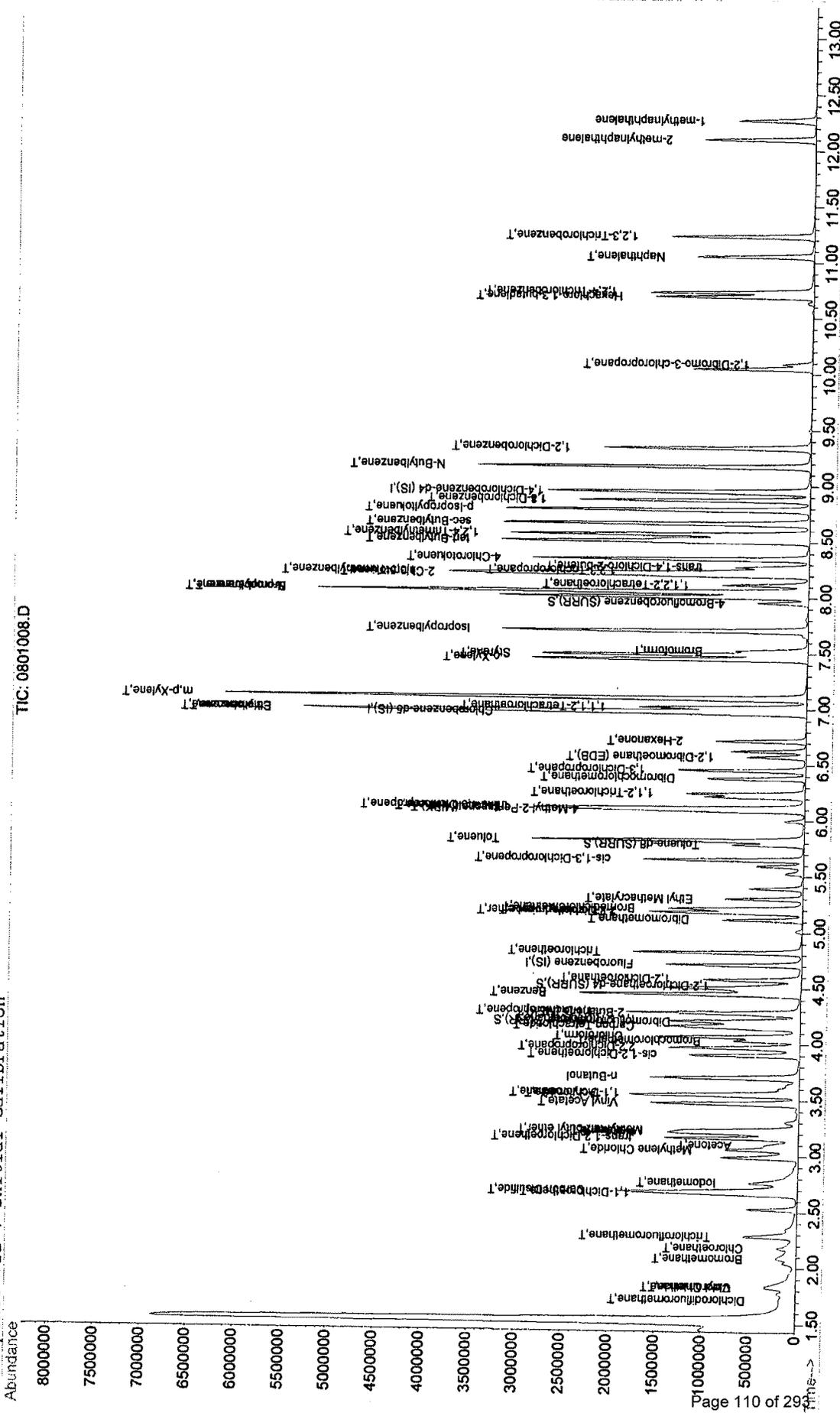
Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215\0801008.D
Acq On : 2 Feb 2015 10:28 am
Sample : 100ppb 8260 ical
Misc : ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:50 2015

Vial: 8
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration



TIC: 0801008.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0901009.D Vial: 9
 Acq On : 2 Feb 2015 10:49 am Operator: GJD
 Sample : 200ppb 8260 ical Inst : GC/MS #2
 Misc : ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:53 2015 Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:50:52 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	490333	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	376157	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	175187	50.00	ug/L	0.00

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	4.19	113	135149	48.04	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	96.08%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	172862	51.69	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	103.38%
42) Toluene-d8 (SURR)	5.78	98	403973	50.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	100.08%
62) 4-Bromofluorobenzene (SURR)	7.95	95	176128	49.10	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.72	85	1191747m	183.29	ug/L	
3) Chloromethane	1.84	50	1013238m	185.23	ug/L	
4) Vinyl Chloride	1.83	62	969850m	199.29	ug/L	
5) Bromomethane	2.09	94	577102m	216.45	ug/L	
6) Chloroethane	2.18	64	410170m	176.23	ug/L	
7) Acrolein	3.21	56	630914	191.14	ug/L	100
8) Trichlorofluoromethane	2.28	101	839139	129.49	ug/L	98
9) Acetone	3.10	43	477909	440.56	ug/L #	92
10) 1,1-Dichloroethene	2.66	61	1432631	187.65	ug/L	99
11) Acrylonitrile	3.55	53	1586166	196.12	ug/L	100
12) Iodomethane	2.76	142	1373194	213.54	ug/L	99
13) Methylene Chloride	3.06	84	809752	173.28	ug/L	92
14) Carbon Disulfide	2.68	76	2866563	185.26	ug/L	99
15) trans-1,2-Dichloroethene	3.16	96	815643	194.25	ug/L	98
16) Methyl-tert-butyl ether	3.24	73	1778876	199.97	ug/L	93
17) 1,1-Dichloroethane	3.56	63	1732614	188.21	ug/L	99
18) Vinyl Acetate	3.48	43	1161199	190.34	ug/L #	100
19) N-Hexane	3.21	57	1331125	191.67	ug/L	99
20) n-Butanol	3.71	57	633838	189.46	ug/L	99
21) 2-Butanone (MEK)	4.27	43	643242	467.71	ug/L	98
22) cis-1,2-Dichloroethene	3.91	61	1264786	187.46	ug/L	98
23) Bromochloromethane	4.04	128	429011	195.13	ug/L #	100
24) Chloroform	4.07	83	1745004	190.81	ug/L	98
25) 2,2-Dichloropropane	3.98	77	1536139	215.50	ug/L	98
28) 1,2-Dichloroethane	4.58	62	1418926	197.23	ug/L	98
29) 1,1,1-Trichloroethane	4.21	97	1480626	195.84	ug/L	99
30) 1,1-Dichloropropene	4.29	75	1308736	192.71	ug/L	99
31) Carbon Tetrachloride	4.17	117	1265018	193.17	ug/L	99
32) Benzene	4.45	78	3286872	191.71	ug/L	99
33) Dibromomethane	5.11	93	544354	192.36	ug/L	97
34) 1,2-Dichloropropane	5.18	63	867115	183.37	ug/L	95
35) Trichloroethene	4.82	95	903621	191.10	ug/L	98
36) Bromodichloromethane	5.22	83	1435712	193.57	ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.18	63	867115	733.49	ug/L #	99
38) cis-1,3-Dichloropropene	5.65	75	1562316	193.06	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	1521471	460.36	ug/L	99
40) trans-1,3-Dichloropropene	6.12	75	1391432	192.06	ug/L	99
41) 1,1,2-Trichloroethane	6.24	83	563776	188.17	ug/L	99
43) Toluene	5.83	91	3277035	190.33	ug/L	99
44) Ethyl Methacrylate	5.30	69	502226	194.25	ug/L	97
45) 1,3-Dichloropropane	6.45	76	1309977	188.99	ug/L	99
46) 2-Hexanone	6.72	43	1136321	476.18	ug/L	100
48) Dibromochloromethane	6.38	129	968362	193.58	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.58	107	757547	190.54	ug/L	99

(#) = qualifier out of range (m) = manual integration
 0901009.D 020215RC.M Thu Feb 05 14:48:46 2015

VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\0901009.D Vial: 9
 Acq On : 2 Feb 2015 10:49 am Operator: GJD
 Sample : 200ppb 8260 ical Inst : GC/MS #2
 Misc : ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:53 2015 Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:50:52 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.10	166	919452	193.41	ug/L	100
51) 1,1,1,2-Tetrachloroethane	7.02	131	844506	188.51	ug/L	99
52) Chlorobenzene	6.98	112	2198445	186.67	ug/L	98
53) Ethylbenzene	6.98	91	4061156	186.02	ug/L	98
54) m,p-Xylene	7.10	91	6254440	375.95	ug/L	99
55) Bromoform	7.53	173	519756	193.05	ug/L	99
56) Styrene	7.49	104	2419651	190.43	ug/L	98
57) 1,1,2,2-Tetrachloroethane	8.12	83	863224	185.35	ug/L	99
58) o-Xylene	7.45	106	1350001	183.01	ug/L	98
59) trans-1,4-Dichloro-2-buten	8.28	53	292832	193.75	ug/L	97
60) 1,2,3-Trichloropropane	8.25	75	1101693	186.62	ug/L #	100
61) Isopropylbenzene	7.71	105	3967143	190.77	ug/L	99
63) Bromobenzene	8.06	156	828422	187.95	ug/L	97
64) N-propylbenzene	8.06	91	4910128	186.09	ug/L	99
65) 2-Chlorotoluene	8.21	91	3163615	186.85	ug/L	100
66) 4-Chlorotoluene	8.35	126	915425	190.96	ug/L	99
68) 1,3,5-Trimethylbenzene	8.23	105	3070999	185.57	ug/L	99
69) tert-Butylbenzene	8.51	119	3305480	186.03	ug/L	100
70) 1,2,4-Trimethylbenzene	8.57	105	3062673	185.26	ug/L #	99
71) sec-Butylbenzene	8.67	105	4398969	186.14	ug/L #	99
72) 1,3-Dichlorobenzene	8.88	146	1666698	186.85	ug/L	99
73) 1,4-Dichlorobenzene	8.88	148	1050231	188.81	ug/L	99
74) p-Isopropyltoluene	8.79	119	3594590	190.04	ug/L	99
75) 1,2-Dichlorobenzene	9.34	146	1542424	188.24	ug/L	99
76) N-Butylbenzene	9.18	91	3600331	183.92	ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.09	155	119092	193.86	ug/L	97
78) 1,2,4-Trichlorobenzene	10.73	180	879570	180.59	ug/L	100
79) Naphthalene	11.05	128	2150158m	201.16	ug/L	
80) Hexachloro-1,3-butadiene	10.70	225	539369	185.94	ug/L	99
81) 1,2,3-Trichlorobenzene	11.24	180	782220	180.47	ug/L	99
82) 1-methylnaphthalene	12.27	142	759591m	173.47	ug/L	
83) 2-methylnaphthalene	12.10	142	1076241m	184.69	ug/L	

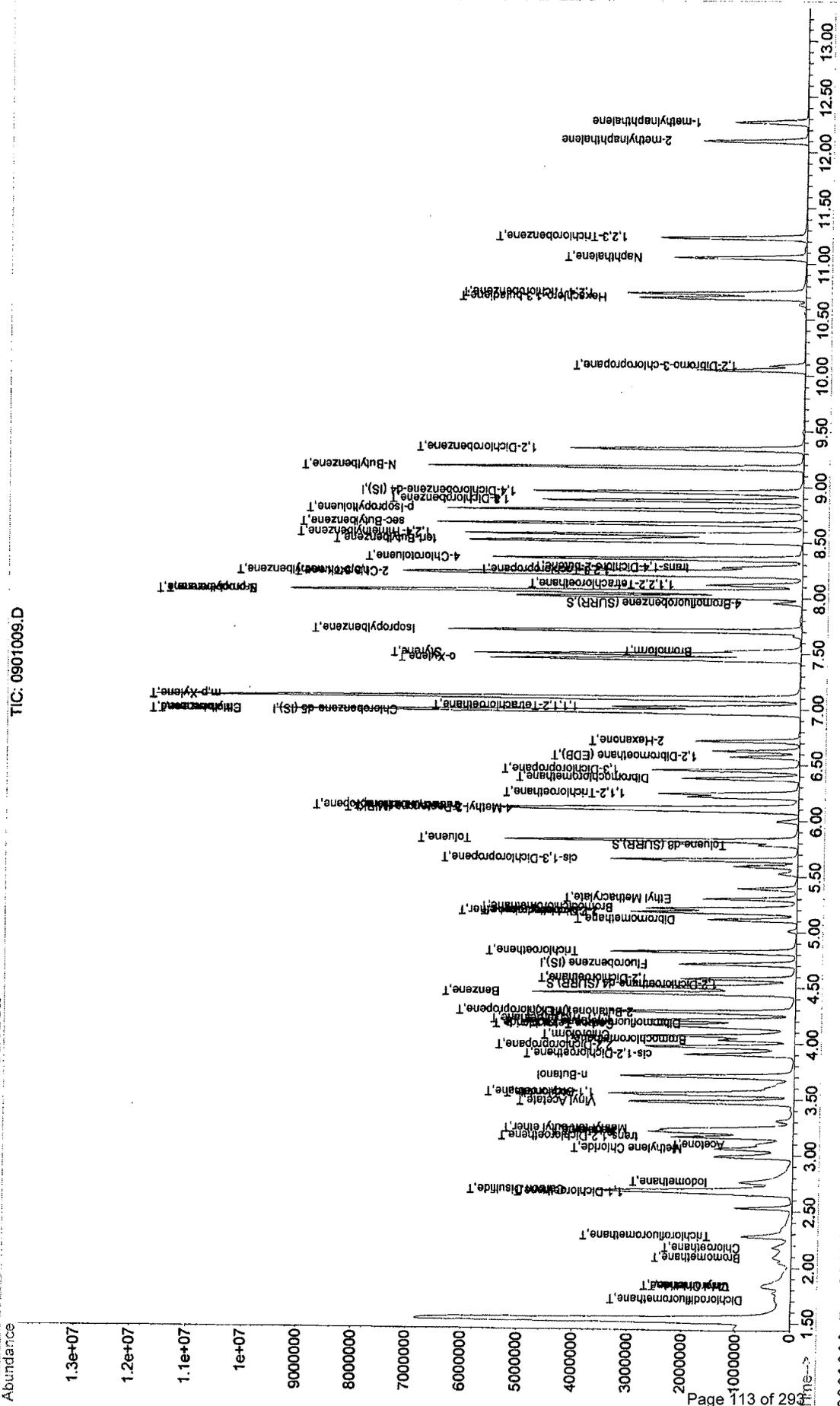
Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215C\0901009.D
Acq On : 2 Feb 2015 10:49 am
Sample : 200ppb ical
Misc : ical
MS Integration Params: rteint.p
Quant Time: Feb 2 11:53 2015

Vial: 9
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\020215C\1101011.D
 Acq On : 2 Feb 2015 11:30 am
 Sample : 50 icv
 Misc : qc
 MS Integration Params: rteint.p

Vial: 11
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene (IS)	1.000	1.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	0.646	0.639	1.1	98	0.02
3 T	Chloromethane	0.533	0.520	2.4	98	0.00
4 T	Vinyl Chloride	0.486	0.488	-0.4	97	0.00
5 T	Bromomethane	0.320	0.321	-0.3	100	0.00
6 T	Chloroethane	0.252	0.254	-0.8	102	0.00
7 T	Acrolein	0.343	0.340	0.9	98	0.00
8 T	Trichlorofluoromethane	0.642	0.654	-1.9	98	0.00
9 T	Acetone	0.108	0.104	3.7	105	0.00
10 T	1,1-Dichloroethene	0.781	0.775	0.8	98	0.00
11 T	Acrylonitrile	0.831	0.822	1.1	99	0.00
12 T	Iodomethane	0.646	0.701	-8.5	102	0.00
13 T	Methylene Chloride	0.466	0.445	4.5	100	0.00
14 T	Carbon Disulfide	1.553	1.530	1.5	98	0.00
15 T	trans-1,2-Dichloroethene	0.424	0.433	-2.1	100	0.00
16 T	Methyl-tert-butyl ether	0.894	0.932	-4.3	103	0.00
17 T	1,1-Dichloroethane	0.933	0.932	0.1	99	0.00
18 T	Vinyl Acetate	0.617	0.615	0.3	99	0.00
19 T	N-Hexane	0.717	0.709	1.1	97	0.00
20	n-Butanol	0.338	0.347	-2.7	101	0.00
21 T	2-Butanone (MEK)	0.136	0.136	0.0	100	0.00
22 T	cis-1,2-Dichloroethene	0.688	0.673	2.2	98	0.00
23 T	Bromochloromethane	0.221	0.229	-3.6	101	0.00
24 T	Chloroform	0.927	0.918	1.0	99	0.00
25 T	2,2-Dichloropropane	0.731	0.754	-3.1	98	0.00
26 S	Dibromofluoromethane (SURR)	0.284	0.286	-0.7	99	0.00
27 S	1,2-Dichloroethane-d4 (SURR)	0.345	0.332	3.8	92	0.00
28 T	1,2-Dichloroethane	0.734	0.729	0.7	100	0.00
29 T	1,1,1-Trichloroethane	0.777	0.774	0.4	99	0.00
30 T	1,1-Dichloropropene	0.690	0.683	1.0	99	0.00
31 T	Carbon Tetrachloride	0.674	0.681	-1.0	101	0.00
32 T	Benzene	1.711	1.698	0.8	98	0.00
33 T	Dibromomethane	0.285	0.284	0.4	100	0.00
34 T	1,2-Dichloropropane	0.475	0.474	0.2	99	0.00
35 T	Trichloroethene	0.480	0.472	1.7	98	0.00
36 T	Bromodichloromethane	0.752	0.742	1.3	98	0.00
37 T	2-Chloroethyl-vinyl-ether	0.119	0.118	0.8	99	0.00
38 T	cis-1,3-Dichloropropene	0.812	0.819	-0.9	99	0.00
39 T	4-Methyl-2-Pentanone (MIBK)	0.330	0.335	-1.5	101	0.00
40 T	trans-1,3-Dichloropropene	0.730	0.738	-1.1	99	0.00
41 T	1,1,2-Trichloroethane	0.299	0.299	0.0	99	0.00
42 S	Toluene-d8 (SURR)	0.816	0.809	0.9	98	0.00
43 T	Toluene	1.733	1.679	3.1	97	0.00
44 T	Ethyl Methacrylate	0.257	0.262	-1.9	100	0.00
45 T	1,3-Dichloropropane	0.690	0.688	0.3	99	0.00
46 T	2-Hexanone	0.236	0.205	13.1	100	0.00
47 I	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	99	0.00
48 T	Dibromochloromethane	0.654	0.654	0.0	99	0.00
49 T	1,2-Dibromoethane (EDB)	0.515	0.516	-0.2	99	0.00
50 T	Tetrachloroethene	0.619	0.664	-7.3	104	0.00
51 T	1,1,1,2-Tetrachloroethane	0.586	0.588	-0.3	100	0.00
52 T	Chlorobenzene	1.545	1.510	2.3	97	0.00
53 T	Ethylbenzene	2.863	2.772	3.2	97	0.00
54 T	m, p-Xylene	2.193	2.121	3.3	97	0.00
55 T	Bromoform	0.349	0.360	-3.2	100	0.00
56 T	Styrene	1.651	1.649	0.1	99	0.00
57 T	1,1,2,2-Tetrachloroethane	0.597	0.605	-1.3	100	0.00
58 T	o-Xylene	0.959	0.948	1.1	98	0.00
59 T	trans-1,4-Dichloro-2-butene	0.197	0.206	-4.6	102	0.00
60 T	1,2,3-Trichloropropane	0.761	0.782	-2.8	101	0.00
61 T	Isopropylbenzene	2.716	2.656	2.2	97	0.00

62	S	4-Bromofluorobenzene (SURR)	0.464	0.456	1.7	96	0.00
63	T	Bromobenzene	0.574	0.575	-0.2	100	0.00
64	T	N-propylbenzene	3.447	3.380	1.9	98	0.00
65	T	2-Chlorotoluene	2.211	2.194	0.8	99	0.00
66	T	4-Chlorotoluene	0.626	0.621	0.8	99	0.00
67	I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	99	0.00
68	T	1,3,5-Trimethylbenzene	4.679	4.668	0.2	100	0.00
69	T	tert-Butylbenzene	5.050	4.842	4.1	95	0.00
70	T	1,2,4-Trimethylbenzene	4.657	4.615	0.9	99	0.00
71	T	sec-Butylbenzene	6.681	6.544	2.1	97	0.00
72	T	1,3-Dichlorobenzene	2.503	2.497	0.2	100	0.00
73	T	1,4-Dichlorobenzene	1.564	1.566	-0.1	99	0.00
74	T	p-Isopropyltoluene	5.358	5.290	1.3	98	0.00
75	T	1,2-Dichlorobenzene	2.298	2.295	0.1	99	0.00
76	T	N-Butylbenzene	5.532	5.410	2.2	98	0.00
77	T	1,2-Dibromo-3-chloropropane	0.171	0.185	-8.2	104	0.00
78	T	1,2,4-Trichlorobenzene	1.359	1.377	-1.3	98	0.00
79	T	Naphthalene	3.027	2.973	1.8	105	0.00
80	T	Hexachloro-1,3-butadiene	0.821	0.838	-2.1	99	0.00
81	T	1,2,3-Trichlorobenzene	1.207	1.221	-1.2	100	0.00
82		1-methylnaphthalene	1.198	1.248	-4.2	101	0.00
83		2-methylnaphthalene	1.628	1.775	-9.0	104	0.00

(#) = Out of Range
0701007.D 020215RC.M

SPCC's out = 0 CCC's out = 0
Thu Feb 05 14:48:52 2015 VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\1101011.D
 Acq On : 2 Feb 2015 11:30 am
 Sample : 50 icv
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:54 2015

Vial: 11
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	475894	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	360376	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	164095	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.19	113	135981	50.26	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	100.52%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	157988	48.18	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	96.36%
42) Toluene-d8 (SURR)	5.78	98	384910	49.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	99.08%
62) 4-Bromofluorobenzene (SURR)	7.95	95	164260	49.11	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	98.22%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.73	85	304246m	49.49	ug/L	
3) Chloromethane	1.84	50	247675	48.86	ug/L	98
4) Vinyl Chloride	1.84	62	232379	50.26	ug/L	96
5) Bromomethane	2.10	94	152939m	50.27	ug/L	
6) Chloroethane	2.19	64	121046	50.53	ug/L	98
7) Acrolein	3.21	56	161734	49.51	ug/L	99
8) Trichlorofluoromethane	2.30	101	311340	50.95	ug/L	99
9) Acetone	3.10	43	123325	119.62	ug/L #	96
10) 1,1-Dichloroethene	2.67	61	368613	49.58	ug/L	100
11) Acrylonitrile	3.55	53	391056	49.47	ug/L	99
12) Iodomethane	2.77	142	333602	54.23	ug/L	99
13) Methylene Chloride	3.06	84	211546	47.65	ug/L	94
14) Carbon Disulfide	2.69	76	728129	49.25	ug/L	100
15) trans-1,2-Dichloroethene	3.17	96	206125	51.04	ug/L	98
16) Methyl-tert-butyl ether	3.24	73	443404	52.08	ug/L	95
17) 1,1-Dichloroethane	3.57	63	443693	49.98	ug/L	100
18) Vinyl Acetate	3.48	43	292833	49.89	ug/L #	100
19) N-Hexane	3.21	57	337329	49.41	ug/L	100
20) n-Butanol	3.71	57	165118	51.33	ug/L	99
21) 2-Butanone (MEK)	4.27	43	161940	124.72	ug/L	99
22) cis-1,2-Dichloroethene	3.90	61	320363	48.94	ug/L	99
23) Bromochloromethane	4.04	128	108849	51.77	ug/L #	96
24) Chloroform	4.07	83	436768	49.48	ug/L	100
25) 2,2-Dichloropropane	3.98	77	358666	51.56	ug/L	98
28) 1,2-Dichloroethane	4.58	62	347045	49.68	ug/L	100
29) 1,1,1-Trichloroethane	4.21	97	368288	49.83	ug/L	99
30) 1,1-Dichloropropene	4.29	75	325108	49.53	ug/L	99
31) Carbon Tetrachloride	4.17	117	324118	50.56	ug/L	98
32) Benzene	4.45	78	808203	49.63	ug/L	99
33) Dibromomethane	5.11	93	135120	49.89	ug/L	99
34) 1,2-Dichloropropane	5.18	63	225449	49.88	ug/L	100
35) Trichloroethene	4.82	95	224526	49.16	ug/L	98
36) Bromodichloromethane	5.22	83	353047	49.34	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.18	63	225449	199.51	ug/L #	99
38) cis-1,3-Dichloropropene	5.65	75	389740	50.41	ug/L	100
39) 4-Methyl-2-Pentanone (MIEBK)	6.09	43	398682	126.97	ug/L	100
40) trans-1,3-Dichloropropene	6.12	75	351189	50.54	ug/L	98
41) 1,1,2-Trichloroethane	6.24	83	142335	50.10	ug/L	99
43) Toluene	5.83	91	798810	48.43	ug/L	99
44) Ethyl Methacrylate	5.30	69	124658	50.94	ug/L	97
45) 1,3-Dichloropropane	6.45	76	327584	49.84	ug/L	99
46) 2-Hexanone	6.72	43	292483	130.17	ug/L	98
48) Dibromochloromethane	6.38	129	235786	50.02	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.58	107	185955	50.10	ug/L	99

(#) = qualifier out of range (m) = manual integration
 1101011.D 020215RC.M Thu Feb 05 14:48:59 2015

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\020215C\1101011.D
 Acq On : 2 Feb 2015 11:30 am
 Sample : 50 icv
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 2 11:54 2015

Vial: 11
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.10	166	239342	53.62	ug/L	100
51) 1,1,1,2-Tetrachloroethane	7.02	131	211920	50.18	ug/L	99
52) Chlorobenzene	6.98	112	544087	48.85	ug/L	100
53) Ethylbenzene	6.98	91	999058	48.41	ug/L	100
54) m,p-Xylene	7.09	91	1528805	96.74	ug/L	99
55) Bromoform	7.52	173	129641	51.55	ug/L #	99
56) Styrene	7.49	104	594143	49.92	ug/L	99
57) 1,1,2,2-Tetrachloroethane	8.11	83	217912	50.66	ug/L	99
58) o-Xylene	7.45	106	341669	49.43	ug/L	100
59) trans-1,4-Dichloro-2-buten	8.27	53	74299	52.33	ug/L	98
60) 1,2,3-Trichloropropane	8.24	75	281943	51.40	ug/L #	99
61) Isopropylbenzene	7.71	105	957060	48.90	ug/L	100
63) Bromobenzene	8.05	156	207285	50.13	ug/L	98
64) N-propylbenzene	8.05	91	1218111	49.03	ug/L	100
65) 2-Chlorotoluene	8.21	91	790570	49.62	ug/L	99
66) 4-Chlorotoluene	8.35	126	223704	49.56	ug/L	99
68) 1,3,5-Trimethylbenzene	8.22	105	765955	49.88	ug/L	99
69) tert-Butylbenzene	8.51	119	794483	47.94	ug/L	98
70) 1,2,4-Trimethylbenzene	8.56	105	757301	49.55	ug/L #	100
71) sec-Butylbenzene	8.67	105	1073898	48.98	ug/L #	100
72) 1,3-Dichlorobenzene	8.87	146	409727	49.88	ug/L	99
73) 1,4-Dichlorobenzene	8.87	148	256962	50.07	ug/L	99
74) p-Isopropyltoluene	8.79	119	868141	49.37	ug/L	99
75) 1,2-Dichlorobenzene	9.34	146	376626	49.93	ug/L	99
76) N-Butylbenzene	9.17	91	887739	48.90	ug/L	100
77) 1,2-Dibromo-3-chloropropan	10.09	155	30416	54.18	ug/L	97
78) 1,2,4-Trichlorobenzene	10.73	180	225956	50.66	ug/L	99
79) Naphthalene	11.05	128	487806	49.11	ug/L	99
80) Hexachloro-1,3-butadiene	10.69	225	137441	51.03	ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	200332	50.56	ug/L	100
82) 1-methylnaphthalene	12.27	142	204792	52.08	ug/L	96
83) 2-methylnaphthalene	12.10	142	291212	54.50	ug/L	98

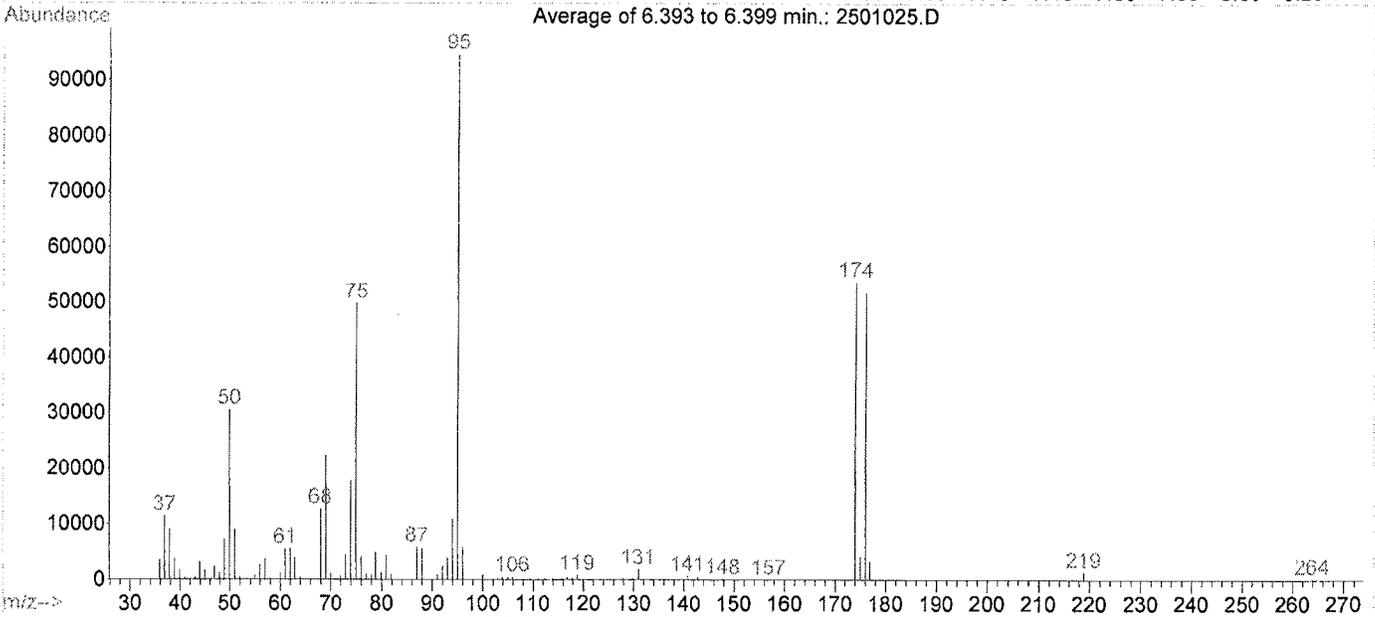
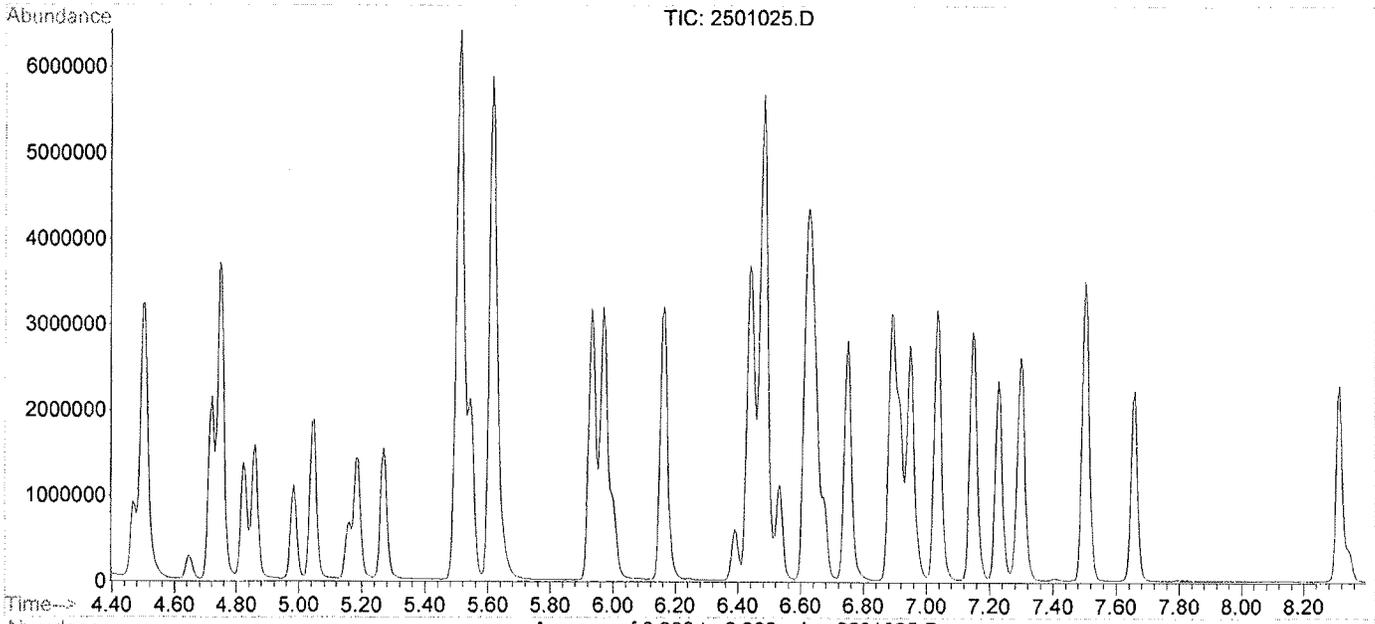


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8260 VOC Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Data File : C:\HPCHEM\1\DATA\020215\2501025.D Vial: 25
 Acq On : 2 Feb 2015 7:05 pm Operator: gjd
 Sample : BFB/CCV 50ppb Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration



Spectrum Information: Average of 6.393 to 6.399 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.4	30636	PASS
75	95	30	60	52.6	49744	PASS
95	95	100	100	100.0	94556	PASS
96	95	5	9	6.3	5921	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.8	53744	PASS
175	174	5	9	7.8	4211	PASS
176	174	95	100	96.3	51780	PASS
177	176	5	9	6.6	3402	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\020215\2501025.D
 Acq On : 2 Feb 2015 7:05 pm
 Sample : BFB/CCV 50ppb
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p

Vial: 25
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:43:57 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 Fluorobenzene (IS)	1.000	1.000	0.0	100	0.05
2 Dichlorodifluoromethane	0.957	0.975	-1.9	101	0.02
3 Chloromethane	0.997	1.053	-5.6	103	0.02
4 m Vinyl Chloride*	0.812	0.833	-2.6	100	0.02
5 Bromomethane	0.333	0.366	-9.9	112	0.03
6 Chloroethane	0.274	0.292	-6.6	103	0.03
7 Acrolein	0.635	0.686	-8.0	104	0.05
8 Trichlorofluoromethane	0.843	0.868	-3.0	97	0.03
9 Acetone	0.198	0.192	3.0	118	0.04
10 m 1,1-Dichloroethene*	1.116	1.241	-11.2	106	0.04
11 Acrylonitrile	1.826	1.913	-4.8	107	0.05
12 Iodomethane	0.621	0.663	-6.8	100	0.03
13 Methylene Chloride	0.731	0.625	14.5	102	0.04
14 Carbon Disulfide	1.601	1.693	-5.7	101	0.03
15 m trans-1,2-Dichloroethene*	0.523	0.574	-9.8	106	0.04
16 m Methyl-tert-butyl ether* (M	1.409	1.433	-1.7	102	0.04
17 m 1,1-Dichloroethane*	1.923	2.083	-8.3	107	0.05
18 Vinyl Acetate	0.652	0.693	-6.3	106	0.05
19 N-Hexane	1.265	1.376	-8.8	105	0.04
20 N-Butanol	0.836	0.898	-7.4	106	0.05
21 2-Butanone (MEK)	0.435	0.454	-4.4	104	0.05
22 m cis-1,2-Dichloroethene*	1.536	1.647	-7.2	104	0.05
23 Bromochloromethane	0.356	0.377	-5.9	101	0.05
24 m Chloroform*	1.703	1.834	-7.7	104	0.05
25 2-2-Dichloropropane	1.448	1.554	-7.3	102	0.05
26 s Dibromofluoromethane (SURR)	0.290	0.271	6.6	95	0.05
27 s 1,2-Dichloroethane-d4 (SURR)	0.351	0.342	2.6	90	0.00
28 1,2-Dichloroethane	1.253	1.316	-5.0	102	0.05
29 m 1,1,1-Trichloroethane*	1.296	1.395	-7.6	102	0.05
30 1,1-Dichloropropene	1.269	1.433	-12.9	105	0.05
31 Carbon Tetrachloride	1.190	1.271	-6.8	100	0.05
32 m Benzene*	3.471	3.827	-10.3	105	0.05
33 Dibromomethane	0.612	0.628	-2.6	99	0.06
34 1,2-Dichloropropane	1.102	1.199	-8.8	103	0.05
35 m Trichloroethene*	0.949	1.029	-8.4	105	0.05
36 Bromodichloromethane	1.335	1.384	-3.7	98	0.06
37 2-Chloroethyl-vinyl ether	0.017	0.016	5.9	112	0.06
38 cis-1,3-Dichloropropene	1.596	1.661	-4.1	100	0.06
39 4-Methyl-2-Pentanone (MIBK)	1.134	1.173	-3.4	102	0.06
40 trans-1,3-Dichloropene	1.264	1.373	-8.6	103	0.06
41 1,1,2-Trichloroethane	0.680	0.712	-4.7	100	0.06
42 s Toluene-d8 (SURR)	0.875	0.879	-0.5	90	0.06
43 m Toluene*	3.672	3.787	-3.1	101	0.06
44 Ethyl Methacrylate	0.890	0.935	-5.1	100	0.06
45 1,3-Dichloropropane	1.300	1.350	-3.8	100	0.06
46 2-Hexanone	0.853	0.870	-2.0	102	0.06
47 Chlorobenzene-d5 (IS)	1.000	1.000	0.0	100	0.06
48 Dibromochloromethane	1.158	1.139	1.6	93	0.06
49 1,2-Dibromoethane (EDB)	1.073	1.061	1.1	97	0.06
50 Tetrachloroethene	1.111	1.161	-4.5	100	0.06
51 m 1,1,1,2-Tetrachloroethane*	0.952	0.968	-1.7	96	0.06
52 m Chlorobenzene*	3.000	3.240	-8.0	99	0.06
53 m Ethyl Benzene*	5.938	6.219	-4.7	100	0.06
54 m,p-Xylene	4.394	4.929	-12.2	105	0.06
55 Bromoform	0.589	0.557	5.4	89	0.06
56 Styrene	3.323	3.504	-5.4	99	0.06
57 1,1,2,2-Tetrachloroethane	0.951	0.932	2.0	93	0.06

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\020215\2501025.D
 Acq On : 2 Feb 2015 7:05 pm
 Sample : BFB/CCV 50ppb
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p

Vial: 25
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:43:57 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 m	o-Xylene*	1.995	2.063	-3.4	97	0.06
59	trans-1,4-Dichloro-2-butene	0.449	0.462	-2.9	99	0.06
60	1,2,3-Trichloropropane	1.532	1.674	-9.3	101	0.06
61	Isopropylbenzene	5.134	5.486	-6.9	98	0.06
62 s	4-Bromofluorobenzene (SURR)	0.525	0.535	-1.9	90	0.06
63	Bromobenzene	1.031	1.080	-4.8	94	0.07
64 m	N-Propylbenzene*	7.129	7.880	-10.5	101	0.06
65	2-Chlorotoluene	4.348	4.179	3.9	103	0.07
66	4-Chlorotoluene	1.031	1.038	-0.7	94	0.06
67	1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	88	0.06
68	1,3,5-Trimethylbenzene	10.307	9.881	4.1	78	0.06
69	tert-butylbenzene	9.922	9.759	1.6	80	0.07
70	1,2,4-Trimethylbenzene	9.967	10.494	-5.3	85	0.06
71	sec-Butylbenzene	14.432	14.984	-3.8	81	0.06
72	1,3-Dichlorobenzene	4.617	5.066	-9.7	89	0.00
73	1,4-Dichlorobenzene	2.960	3.052	-3.1	85	0.00
74	p-Isopropyltoluene	9.866	11.019	-11.7	90	0.06
75	1,2-Dichlorobenzene	4.370	4.862	-11.3	91	0.07
76	N-Butylbenzene	12.992	14.097	-8.5	84	0.07
77	1,2-Dibromo-3-chloropropane	0.281	0.266	5.3	80	0.07
78	1,2,4-Trichlorobenzene	2.108	2.097	0.5	79	0.07
79	Naphthalene	3.314	3.108	6.2	77	0.07
80	Hexachloro-1,3-butadiene	1.576	1.534	2.7	83	0.07
81	1,2,3-Trichlorobenzene	1.750	1.667	4.7	79	0.07
82	1-Methylnaphthalene	0.745	0.708	5.0	82	0.00
83	2-Methylnaphthalene	0.975	0.934	4.2	88	0.07

Data File : C:\HPCHEM\1\DATA\020215\2501025.D
 Acq On : 2 Feb 2015 7:05 pm
 Sample : BFB/CCV 50ppb
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:43 2015

Vial: 25
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:37:41 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.59	96	513394m	50.00	ppb	0.05
47) Chlorobenzene-d5 (IS)	5.50	117	341796m	50.00	ppb	0.06
67) 1,4-Dichlorobenzene (IS)	7.29	152	113232m	50.00	ppb	0.06

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.18	113	139279	46.84	ppb	0.05
Spiked Amount	50.000	Range 54 - 140	Recovery =	93.68%		
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	175341m	48.63	ppb	0.05
Spiked Amount	50.000	Range 54 - 138	Recovery =	97.26%		
42) Toluene-d8 (SURR)	4.47	98	451462	50.23	ppb	0.06
Spiked Amount	50.000	Range 61 - 127	Recovery =	100.46%		
62) 4-Bromofluorobenzene (SURR)	6.39	95	182797	50.94	ppb	0.06
Spiked Amount	50.000	Range 69 - 131	Recovery =	101.88%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.44	85	500795	50.97	ppb	100
3) Chloromethane	1.56	50	540474	52.82	ppb	# 95
4) Vinyl Chloride*	1.60	62	427410	51.29	ppb	100
5) Bromomethane	1.77	94	187963	55.17	ppb	99
6) Chloroethane	1.82	64	150056	53.35	ppb	97
7) Acrolein	2.47	56	352122	54.03	ppb	100
8) Trichlorofluoromethane	1.89	101	445782m	51.51	ppb	
9) Acetone	2.40	43	246073m	120.84	ppb	
10) 1,1-Dichloroethene*	2.12	61	636948	55.61	ppb	98
11) Acrylonitrile	2.71	53	982259	52.40	ppb	100
12) Iodomethane	2.20	142	340435	53.43	ppb	100
13) Methylene Chloride	2.38	84	320984	42.79	ppb	99
14) Carbon Disulfide	2.15	76	868983	52.87	ppb	# 100
15) trans-1,2-Dichloroethene*	2.45	96	294652	54.89	ppb	98
16) Methyl-tert-butyl ether* (	2.48	73	735890	50.86	ppb	98
17) 1,1-Dichloroethane*	2.72	63	1069554	54.15	ppb	100
18) Vinyl Acetate	2.81	43	355891	53.14	ppb	# 100
19) N-Hexane	2.47	57	706671	54.39	ppb	99
20) N-Butanol	2.80	57	461194	53.75	ppb	# 96
21) 2-Butanone (MEK)	3.24	43	583307	130.46	ppb	99
22) cis-1,2-Dichloroethene*	2.97	61	845648	53.63	ppb	98
23) Bromochloromethane	3.07	128	193712	53.05	ppb	97
24) Chloroform*	3.09	83	941321	53.82	ppb	99
25) 2-2-Dichloropropane	3.03	77	797666	53.67	ppb	99
28) 1,2-Dichloroethane	3.49	62	675680	52.52	ppb	97
29) 1,1,1-Trichloroethane*	3.20	97	716028	53.83	ppb	99
30) 1,1-Dichloropropene	3.26	75	735564	56.44	ppb	99
31) Carbon Tetrachloride	3.17	117	652575	53.42	ppb	99
32) Benzene*	3.39	78	1964984	55.14	ppb	100
33) Dibromomethane	3.92	93	322404	51.34	ppb	97
34) 1,2-Dichloropropane	3.97	63	615503	54.38	ppb	98
35) Trichloroethene*	3.68	95	528352	54.23	ppb	98
36) Bromodichloromethane	3.99	83	710675	51.86	ppb	100
37) 2-Chloroethyl-vinyl ether	4.29	63	33711m	197.68	ppb	
38) cis-1,3-Dichloropropene	4.35	75	852819	52.05	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.72	43	1504926	129.30	ppb	98
40) trans-1,3-Dichloropene	4.75	75	705020	54.34	ppb	97
41) 1,1,2-Trichloroethane	4.86	83	365678	52.36	ppb	100
43) Toluene*	4.51	91	1944042	51.56	ppb	100
44) Ethyl Methacrylate	4.82	69	479822	52.48	ppb	96
45) 1,3-Dichloropropane	5.05	76	693141	51.92	ppb	100
46) 2-Hexanone	5.27	43	1116440	127.45	ppb	98
48) Dibromochloromethane	4.98	129	389323	49.20	ppb	99
49) 1,2-Dibromoethane (EDB)	5.16	107	362794	49.48	ppb	99

Data File : C:\HPCHEM\1\DATA\020215\2501025.D
 Acq On : 2 Feb 2015 7:05 pm
 Sample : BFB/CCV 50ppb
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:43 2015

Vial: 25
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:37:41 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.75	166	396759	52.22	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.54	131	330815	50.85	ppb	99
52) Chlorobenzene*	5.51	112	1107315	53.99	ppb	96
53) Ethyl Benzene*	5.51	91	2125483	52.36	ppb	98
54) m,p-Xylene	5.61	91	3369534	112.17	ppb	99
55) Bromoform	6.00	173	190473	47.34	ppb	# 99
56) Styrene	5.97	104	1197542	52.72	ppb	99
57) 1,1,2,2-Tetrachloroethane	6.53	85	318721	49.03	ppb	100
58) o-Xylene*	5.93	106	705091	51.70	ppb	97
59) trans-1,4-Dichloro-2-buten	6.67	53	158013	51.53	ppb	97
60) 1,2,3-Trichloropropane	6.65	75	572127	54.63	ppb	95
61) Isopropylbenzene	6.16	105	1875213	53.44	ppb	99
63) Bromobenzene	6.48	156	369085	52.35	ppb	92
64) N-Propylbenzene*	6.48	91	2693231	55.27	ppb	99
65) 2-Chlorotoluene	6.62	91	1428283	48.06	ppb	97
66) 4-Chlorotoluene	6.75	126	354673	50.30	ppb	93
68) 1,3,5-Trimethylbenzene	6.63	105	1118843m	47.93	ppb	
69) tert-butylbenzene	6.89	119	1104987m	49.18	ppb	
70) 1,2,4-Trimethylbenzene	6.95	105	1188311m	52.65	ppb	
71) sec-Butylbenzene	7.03	105	1696641m	51.91	ppb	
72) 1,3-Dichlorobenzene	7.23	146	573673m	54.87	ppb	
73) 1,4-Dichlorobenzene	7.30	148	345586m	51.55	ppb	
74) p-Isopropyltoluene	7.15	119	1247660m	55.84	ppb	
75) 1,2-Dichlorobenzene	7.66	146	550534	55.63	ppb	99
76) N-Butylbenzene	7.50	91	1596222m	54.25	ppb	
77) 1,2-Dibromo-3-chloropropan	8.35	155	30151	47.40	ppb	87
78) 1,2,4-Trichlorobenzene	8.94	180	237488	49.74	ppb	99
79) Naphthalene	9.24	128	351948	46.90	ppb	100
80) Hexachloro-1,3-butadiene	8.91	225	173650	48.66	ppb	100
81) 1,2,3-Trichlorobenzene	9.41	180	188801	47.65	ppb	100
82) 1-Methylnaphthalene	10.34	142	80223m	47.56	ppb	
83) 2-Methylnaphthalene	10.19	142	105760	47.91	ppb	96

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\020215\2501025.D
 Tune Time : 2 Feb 2015 7:05 pm

Daily Calibration File : C:\HPCHEM\1\DATA\020215\2501025.D

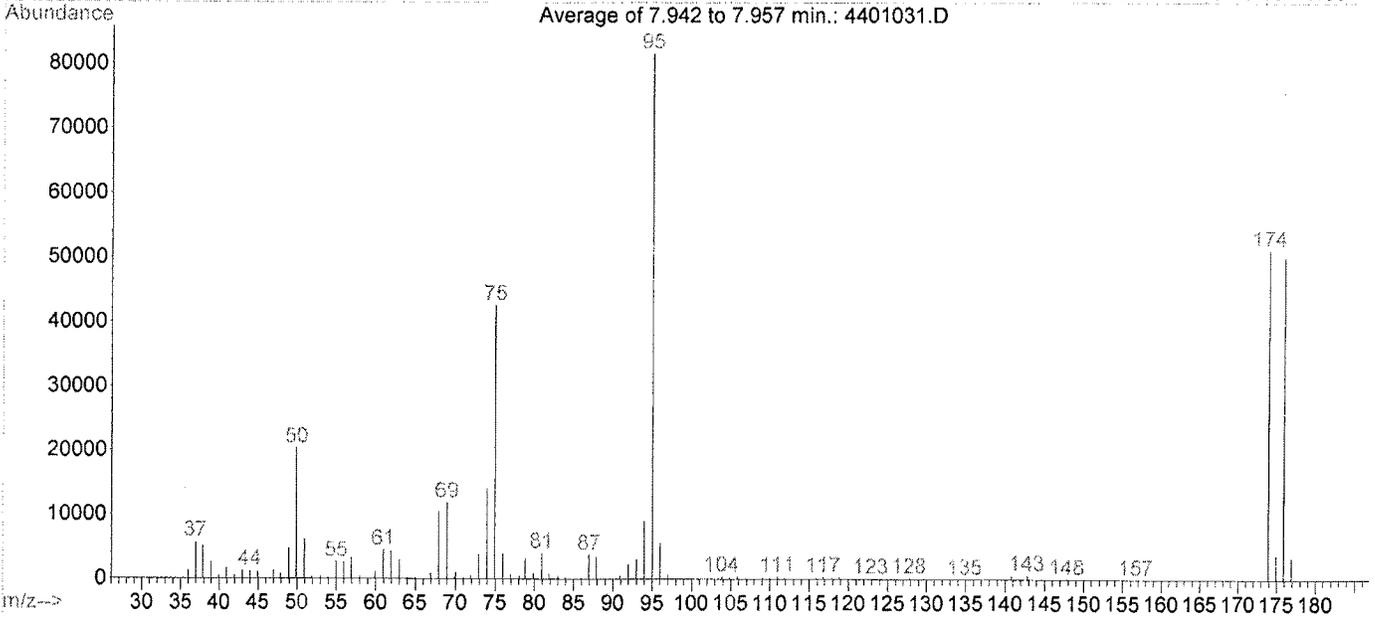
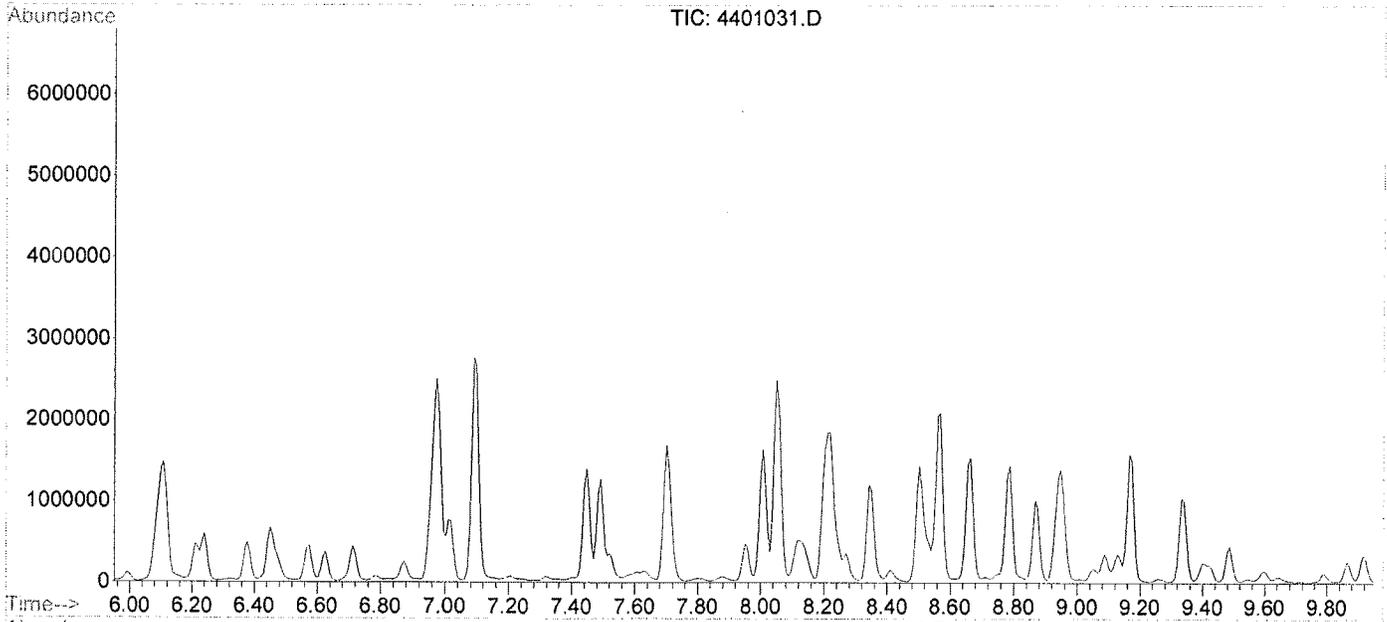
File	Sample	Surrogate Recovery %				Internal Standard Responses		
		90	102	103	103			
2601026.D	LCS 50p	90	102	103	103	564922	370114	122859
2701027.D	MB	99	92	104	107	637205	380400	112211
4601009.D	1561	104	104	96	96	448219	218408	36744

513394 341796 113232

t - fails 12hr time check * - fails criteria

Created: Sat Feb 07 01:52:36 2015 VOC 1

Data File : C:\HPCHEM\1\DATA\020215C\4401031.D Vial: 44
 Acq On : 2 Feb 2015 10:57 pm Operator: GJD
 Sample : bfb/ccv 50ppb Inst : GC/MS #2
 Misc : qc Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis



Spectrum Information: Average of 7.942 to 7.957 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.9	20307	PASS
75	95	30	60	52.2	42616	PASS
95	95	100	100	100.0	81672	PASS
96	95	5	9	6.8	5580	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.7	51216	PASS
175	174	5	9	7.4	3813	PASS
176	174	95	100	97.6	50003	PASS
177	176	5	9	6.7	3352	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\020215C\4401031.D
 Acq On : 2 Feb 2015 10:57 pm
 Sample : bfb/ccv 50ppb
 Misc : qc
 MS Integration Params: rteint.p

Vial: 44
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene (IS)	1.000	1.000	0.0	87	0.00
2 T	Dichlorodifluoromethane	0.646	0.676	-4.6	91	0.01
3 T	Chloromethane	0.533	0.526	1.3	87	0.01
4 T	Vinyl Chloride	0.486	0.498	-2.5	86	0.00
5 T	Bromomethane	0.320	0.326	-1.9	89	0.00
6 T	Chloroethane	0.252	0.269	-6.7	94	0.01
7 T	Acrolein	0.343	0.370	-7.9	93	0.00
8 T	Trichlorofluoromethane	0.642	0.726	-13.1	95	0.00
9 T	Acetone	0.108	0.104	3.7	92	0.00
10 T	1,1-Dichloroethene	0.781	0.812	-4.0	90	0.00
11 T	Acrylonitrile	0.831	0.868	-4.5	91	0.00
12 T	Iodomethane	0.646	0.718	-11.1	91	0.00
13 T	Methylene Chloride	0.466	0.449	3.6	89	0.00
14 T	Carbon Disulfide	1.553	1.574	-1.4	88	0.00
15 T	trans-1,2-Dichloroethene	0.424	0.439	-3.5	89	0.00
16 T	Methyl-tert-butyl ether	0.894	0.895	-0.1	87	0.00
17 T	1,1-Dichloroethane	0.933	0.966	-3.5	90	0.00
18 T	Vinyl Acetate	0.617	0.616	0.2	87	0.00
19 T	N-Hexane	0.717	0.753	-5.0	90	0.00
20	n-Butanol	0.338	0.333	1.5	85	0.00
21 T	2-Butanone (MEK)	0.136	0.134	1.5	86	0.00
22 T	cis-1,2-Dichloroethene	0.688	0.716	-4.1	91	0.00
23 T	Bromochloromethane	0.221	0.229	-3.6	89	0.00
24 T	Chloroform	0.927	0.951	-2.6	90	0.00
25 T	2,2-Dichloropropane	0.731	0.777	-6.3	89	0.00
26 S	Dibromofluoromethane (SURR)	0.284	0.294	-3.5	89	0.00
27 S	1,2-Dichloroethane-d4 (SURR)	0.345	0.369	-7.0	89	0.00
28 T	1,2-Dichloroethane	0.734	0.755	-2.9	91	0.00
29 T	1,1,1-Trichloroethane	0.777	0.807	-3.9	90	0.00
30 T	1,1-Dichloropropene	0.690	0.708	-2.6	90	0.00
31 T	Carbon Tetrachloride	0.674	0.720	-6.8	93	0.00
32 T	Benzene	1.711	1.719	-0.5	87	0.00
33 T	Dibromomethane	0.285	0.285	0.0	88	0.00
34 T	1,2-Dichloropropane	0.475	0.480	-1.1	88	0.00
35 T	Trichloroethene	0.480	0.491	-2.3	89	0.00
36 T	Bromodichloromethane	0.752	0.753	-0.1	87	0.00
37 T	2-Chloroethyl-vinyl-ether	0.119	0.120	-0.8	88	0.00
38 T	cis-1,3-Dichloropropene	0.812	0.806	0.7	85	0.00
39 T	4-Methyl-2-Pentanone (MIBK)	0.330	0.334	-1.2	88	0.00
40 T	trans-1,3-Dichloropropene	0.730	0.724	0.8	85	0.00
41 T	1,1,2-Trichloroethane	0.299	0.301	-0.7	87	0.00
42 S	Toluene-d8 (SURR)	0.816	0.823	-0.9	87	0.00
43 T	Toluene	1.733	1.737	-0.2	88	0.00
44 T	Ethyl Methacrylate	0.257	0.259	-0.8	87	0.00
45 T	1,3-Dichloropropane	0.690	0.682	1.2	86	0.00
46 T	2-Hexanone	0.236	0.197	16.5	85	0.00
47 I	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	88	0.00
48 T	Dibromochloromethane	0.654	0.656	-0.3	88	0.00
49 T	1,2-Dibromoethane (EDB)	0.515	0.514	0.2	87	0.00
50 T	Tetrachloroethene	0.619	0.705	-13.9	98	0.00
51 T	1,1,1,2-Tetrachloroethane	0.586	0.590	-0.7	89	0.00
52 T	Chlorobenzene	1.545	1.550	-0.3	88	0.00
53 T	Ethylbenzene	2.863	2.966	-3.6	92	0.00
54 T	m,p-Xylene	2.193	2.335	-6.5	95	0.00
55 T	Bromoform	0.349	0.354	-1.4	87	0.00
56 T	Styrene	1.651	1.630	1.3	87	0.00
57 T	1,1,2,2-Tetrachloroethane	0.597	0.591	1.0	87	-0.01
58 T	o-Xylene	0.959	1.004	-4.7	92	0.00
59 T	trans-1,4-Dichloro-2-butene	0.197	0.188	4.6	82	0.00
60 T	1,2,3-Trichloropropane	0.761	0.746	2.0	85	0.00
61 T	Isopropylbenzene	2.716	2.815	-3.6	91	0.00

62	S	4-Bromofluorobenzene (SURR)	0.464	0.462	0.4	86	0.00
63	T	Bromobenzene	0.574	0.571	0.5	88	0.00
64	T	N-propylbenzene	3.447	3.825	-11.0	98	0.00
65	T	2-Chlorotoluene	2.211	2.172	1.8	86	0.00
66	T	4-Chlorotoluene	0.626	0.602	3.8	85	0.00
67	I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	83	0.00
68	T	1,3,5-Trimethylbenzene	4.679	5.449	-16.5	97	0.00
69	T	tert-Butylbenzene	5.050	4.970	1.6	82	0.00
70	T	1,2,4-Trimethylbenzene	4.657	5.025	-7.9	90	0.00
71	T	sec-Butylbenzene	6.681	7.164	-7.2	89	0.00
72	T	1,3-Dichlorobenzene	2.503	2.517	-0.6	85	-0.01
73	T	1,4-Dichlorobenzene	1.564	1.588	-1.5	85	-0.01
74	T	p-Isopropyltoluene	5.358	5.971	-11.4	93	0.00
75	T	1,2-Dichlorobenzene	2.298	2.338	-1.7	85	-0.01
76	T	N-Butylbenzene	5.532	6.135	-10.9	93	-0.01
77	T	1,2-Dibromo-3-chloropropane	0.171	0.179	-4.7	84	0.00
78	T	1,2,4-Trichlorobenzene	1.359	1.272	6.4	76	0.00
79	T	Naphthalene	3.027	2.894	4.4	85	0.00
80	T	Hexachloro-1,3-butadiene	0.821	0.836	-1.8	83	0.00
81	T	1,2,3-Trichlorobenzene	1.207	1.187	1.7	82	-0.01
82		1-methylnaphthalene	1.198	1.285	-7.3	87	-0.01
83		2-methylnaphthalene	1.628	1.769	-8.7	87	0.00

(#) = Out of Range
0701007.D 020215RC.M

SPCC's out = 0 CCC's out = 0
Wed Feb 04 19:51:46 2015 VOCWTS

Data File : C:\HPCHEM\1\DATA\020215C\4401031.D
 Acq On : 2 Feb 2015 10:57 pm
 Sample : bfb/ccv 50ppb
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 3 4:19 2015

Vial: 44
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	417147	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	318976	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.93	152	137683	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.19	113	122849	51.80	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	103.60%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	154022	53.58	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	107.16%
42) Toluene-d8 (SURR)	5.78	98	343128	50.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	100.76%
62) 4-Bromofluorobenzene (SURR)	7.95	95	147352	49.77	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	99.54%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.72	85	282054m	52.34	ug/L	
3) Chloromethane	1.85	50	219537m	49.41	ug/L	
4) Vinyl Chloride	1.84	62	207657	51.24	ug/L	98
5) Bromomethane	2.10	94	135805	50.93	ug/L	# 96
6) Chloroethane	2.20	64	112194	53.44	ug/L	96
7) Acrolein	3.22	56	154305	53.89	ug/L	# 99
8) Trichlorofluoromethane	2.30	101	302937	56.55	ug/L	97
9) Acetone	3.10	43	108253	119.79	ug/L	# 96
10) 1,1-Dichloroethene	2.67	61	338635	51.96	ug/L	100
11) Acrylonitrile	3.55	53	361939	52.23	ug/L	98
12) Iodomethane	2.77	142	299514	55.55	ug/L	99
13) Methylene Chloride	3.06	84	187483	48.18	ug/L	97
14) Carbon Disulfide	2.69	76	656768	50.68	ug/L	99
15) trans-1,2-Dichloroethene	3.17	96	183093	51.72	ug/L	99
16) Methyl-tert-butyl ether	3.24	73	373298	50.02	ug/L	97
17) 1,1-Dichloroethane	3.57	63	402855	51.77	ug/L	99
18) Vinyl Acetate	3.47	43	257151	49.98	ug/L	# 100
19) N-Hexane	3.22	57	314101	52.49	ug/L	98
20) n-Butanol	3.71	57	139083	49.33	ug/L	99
21) 2-Butanone (MEK)	4.27	43	140064	123.06	ug/L	99
22) cis-1,2-Dichloroethene	3.91	61	298759	52.07	ug/L	97
23) Bromochloromethane	4.03	128	95423	51.78	ug/L	# 99
24) Chloroform	4.07	83	396751	51.27	ug/L	100
25) 2,2-Dichloropropane	3.97	77	324232	53.17	ug/L	98
28) 1,2-Dichloroethane	4.58	62	315010	51.44	ug/L	99
29) 1,1,1-Trichloroethane	4.21	97	336758	51.98	ug/L	100
30) 1,1-Dichloropropene	4.29	75	295317	51.33	ug/L	99
31) Carbon Tetrachloride	4.16	117	300212	53.43	ug/L	99
32) Benzene	4.45	78	717066	50.24	ug/L	99
33) Dibromomethane	5.11	93	118878	50.08	ug/L	99
34) 1,2-Dichloropropane	5.18	63	200346	50.57	ug/L	98
35) Trichloroethene	4.82	95	204696	51.13	ug/L	98
36) Bromodichloromethane	5.21	83	314285	50.10	ug/L	97
37) 2-Chloroethyl-vinyl-ether	5.18	63	200346	202.27	ug/L	# 99
38) cis-1,3-Dichloropropene	5.65	75	336130	49.60	ug/L	95
39) 4-Methyl-2-Pentanone (MIBK)	6.09	43	348043	126.46	ug/L	98
40) trans-1,3-Dichloropropene	6.12	75	301872	49.56	ug/L	96
41) 1,1,2-Trichloroethane	6.24	83	125657	50.46	ug/L	97
43) Toluene	5.82	91	724560	50.11	ug/L	100
44) Ethyl Methacrylate	5.30	69	108206	50.44	ug/L	93
45) 1,3-Dichloropropane	6.45	76	284594	49.40	ug/L	100
46) 2-Hexanone	6.71	43	246687	125.25	ug/L	99
48) Dibromochloromethane	6.38	129	209390	50.19	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.57	107	163934	49.90	ug/L	99

Data File : C:\HPCHEM\1\DATA\020215C\4401031.D

Vial: 44

Acq On : 2 Feb 2015 10:57 pm

Operator: GJD

Sample : bfb/ccv 50ppb

Inst : GC/MS #2

Misc : qc

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 3 4:19 2015

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)

Title : 8260 voa analysis

Last Update : Mon Feb 02 11:53:38 2015

Response via : Initial Calibration

DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene	6.10	166	225013m	56.95 ug/L	
51) 1,1,1,2-Tetrachloroethane	7.02	131	188203	50.35 ug/L	99
52) Chlorobenzene	6.97	112	494329	50.15 ug/L	100
53) Ethylbenzene	6.98	91	946182	51.80 ug/L	99
54) m,p-Xylene	7.09	91	1489450	106.48 ug/L	100
55) Bromoform	7.52	173	112791	50.67 ug/L #	98
56) Styrene	7.49	104	520001	49.36 ug/L	99
57) 1,1,2,2-Tetrachloroethane	8.11	83	188550	49.53 ug/L	98
58) o-Xylene	7.45	106	320145	52.32 ug/L	99
59) trans-1,4-Dichloro-2-buten	8.27	53	59936	47.70 ug/L	95
60) 1,2,3-Trichloropropane	8.24	75	238102	49.04 ug/L #	99
61) Isopropylbenzene	7.70	105	898022	51.83 ug/L	100
63) Bromobenzene	8.05	156	182161	49.77 ug/L	99
64) N-propylbenzene	8.05	91	1220119	55.48 ug/L	100
65) 2-Chlorotoluene	8.20	91	692877	49.13 ug/L	100
66) 4-Chlorotoluene	8.35	126	191976	48.05 ug/L	99
68) 1,3,5-Trimethylbenzene	8.22	105	750176	58.23 ug/L	99
69) tert-Butylbenzene	8.50	119	684263	49.21 ug/L	95
70) 1,2,4-Trimethylbenzene	8.57	105	691844m	53.95 ug/L	
71) sec-Butylbenzene	8.66	105	986382	53.61 ug/L #	99
72) 1,3-Dichlorobenzene	8.87	146	346530	50.28 ug/L	100
73) 1,4-Dichlorobenzene	8.87	148	218672	50.78 ug/L	100
74) p-Isopropyltoluene	8.79	119	822039	55.72 ug/L	99
75) 1,2-Dichlorobenzene	9.33	146	321884	50.86 ug/L	99
76) N-Butylbenzene	9.17	91	844716	55.46 ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.08	155	24579	52.18 ug/L	93
78) 1,2,4-Trichlorobenzene	10.73	180	175197	46.81 ug/L	96
79) Naphthalene	11.05	128	398432	47.81 ug/L	99
80) Hexachloro-1,3-butadiene	10.69	225	115085	50.93 ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	163464	49.17 ug/L	97
82) 1-methylnaphthalene	12.26	142	176887	53.62 ug/L	99
83) 2-methylnaphthalene	12.09	142	243602	54.34 ug/L	97

(#) = qualifier out of range (m) = manual integration

4401031.D 020215RC.M

Wed Feb 04 19:51:54 2015

VOCWTS

GC/MS QA-QC CHECK REPORT

Tune File: C:\HPCHEM\1\DATA\020215C\4401031.D

Tune Time: 2-Feb-15 10:57 PM

FILE	SAMPLE	SURROGATE RECOVERY %				INTERNAL STANDARD RESPONSES		
		101	89	98	96	417147	318976	137683
4701034.D	mb	101	89	98	96	505562	379990	158502
4501032.D	lcs 50ppb	103	99	98	98	424107	321180	138840
4601033.D	lcsd 50ppb	100	96	98	99	445402	330845	144074
6301050.D	15-1567	108	102	98	98	507489	384186	161740
6801055.D	15-1571	106	101	97	98	528063	399478	168276

* - fails criteria

t - fails 12hr time check

Created: Thur. 5-Feb 11:50:00 2015



ENVision Laboratories, Inc.
1439 Sadler Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

8260 VOC
Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Data File : C:\HPCHEM\1\DATA\020215\2701027.D Vial: 27
 Acq On : 2 Feb 2015 7:42 pm Operator: gjd
 Sample : MB Inst : VOC 1
 Misc : 010715 VOC1 curve, 8260 ical Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:46 2015 Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:43:57 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.59	96	637205	50.00	ppb	0.05
47) Chlorobenzene-d5 (IS)	5.50	117	380400	50.00	ppb	0.06
67) 1,4-Dichlorobenzene (IS)	7.29	152	112211	50.00	ppb	0.06

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.18	113	181989	49.32	ppb	0.05
Spiked Amount	50.000	Range	54 - 140	Recovery	=	98.64%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	206774	46.20	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	92.40%
42) Toluene-d8 (SURR)	4.47	98	582850	52.25	ppb	0.06
Spiked Amount	50.000	Range	61 - 127	Recovery	=	104.50%
62) 4-Bromofluorobenzene (SURR)	6.39	95	213676	53.50	ppb	0.06
Spiked Amount	50.000	Range	69 - 131	Recovery	=	107.00%

Target Compounds Qvalue

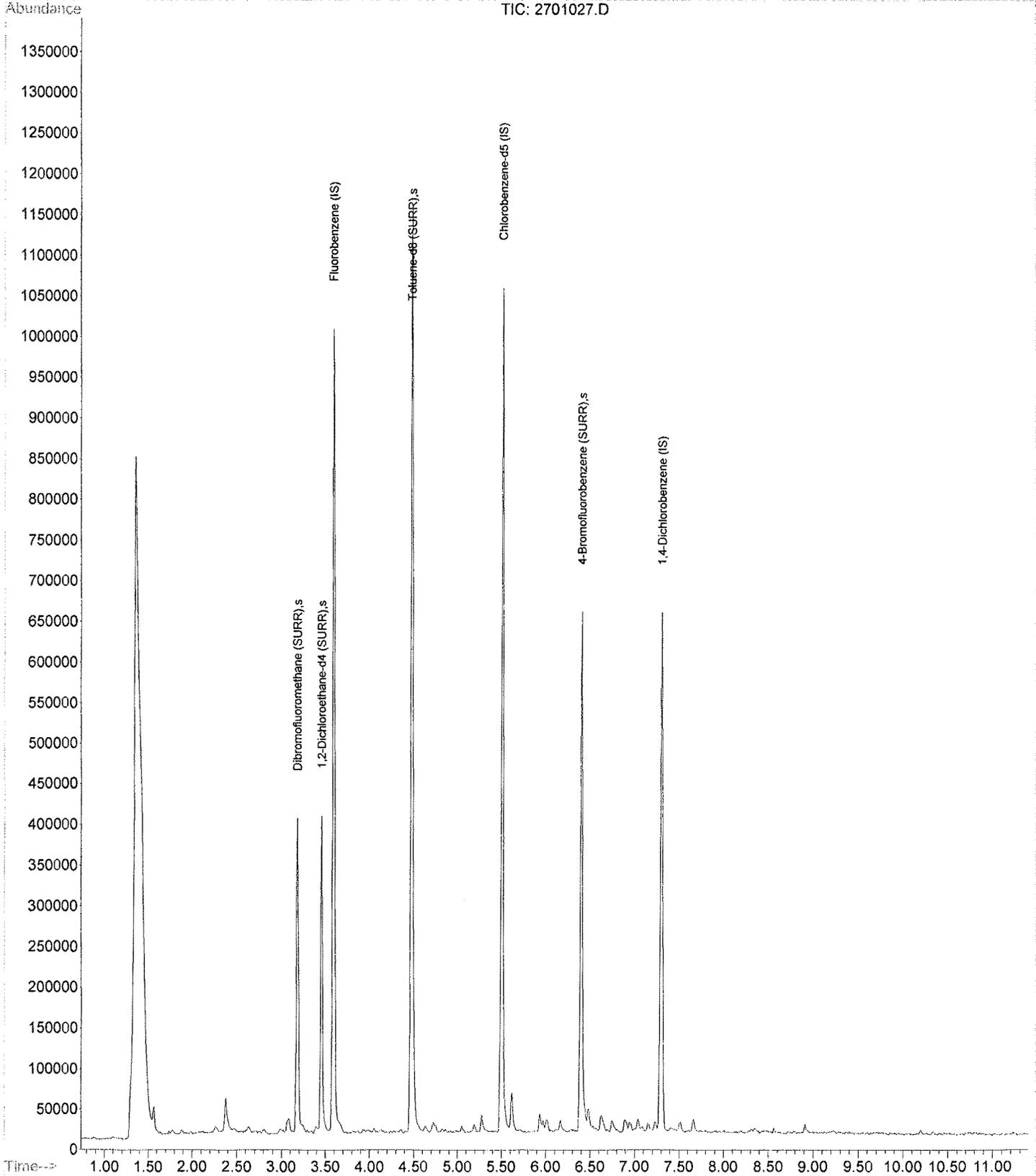
Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215\2701027.D
Acq On : 2 Feb 2015 7:42 pm
Sample : MB
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 3 19:46 2015

Vial: 27
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Tue Feb 03 19:43:57 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\020215\2601026.D
 Acq On : 2 Feb 2015 7:23 pm
 Sample : LCS 50ppb
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:46 2015

Vial: 26
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:43:57 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.59	96	564922m	50.00	ppb	0.05
47) Chlorobenzene-d5 (IS)	5.50	117	370114m	50.00	ppb	0.06
67) 1,4-Dichlorobenzene (IS)	7.29	152	122859m	50.00	ppb	0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	148010	45.24	ppb	0.05
Spiked Amount	50.000	Range	54 - 140	Recovery	=	90.48%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	202136	50.94	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	101.88%
42) Toluene-d8 (SURR)	4.47	98	508429	51.41	ppb	0.06
Spiked Amount	50.000	Range	61 - 127	Recovery	=	102.82%
62) 4-Bromofluorobenzene (SURR)	6.39	95	199187	51.26	ppb	0.06
Spiked Amount	50.000	Range	69 - 131	Recovery	=	102.52%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.45	85	530029	49.02	ppb	100
3) Chloromethane	1.57	50	593591	52.72	ppb	# 96
4) Vinyl Chloride*	1.60	62	478889	52.23	ppb	100
5) Bromomethane	1.76	94	196897	52.10	ppb	99
6) Chloroethane	1.82	64	173986	56.21	ppb	97
7) Acrolein	2.47	56	386270	53.86	ppb	100
8) Trichlorofluoromethane	1.89	101	515744m	54.16	ppb	
9) Acetone	2.40	43	253562	113.16	ppb	96
10) 1,1-Dichloroethene*	2.12	61	649940	51.57	ppb	98
11) Acrylonitrile	2.71	53	1084883	52.60	ppb	99
12) Iodomethane	2.20	142	379805	54.17	ppb	100
13) Methylene Chloride	2.38	84	353134	42.78	ppb	99
14) Carbon Disulfide	2.15	76	920106	50.88	ppb	# 100
15) trans-1,2-Dichloroethene*	2.45	96	317161	53.70	ppb	98
16) Methyl-tert-butyl ether* (	2.48	73	843148	52.96	ppb	99
17) 1,1-Dichloroethane*	2.72	63	1182594	54.42	ppb	100
18) Vinyl Acetate	2.80	43	394166	53.49	ppb	# 100
19) N-Hexane	2.47	57	779195	54.51	ppb	99
20) N-Butanol	2.80	57	511612	54.19	ppb	# 98
21) 2-Butanone (MEK)	3.23	43	603528	122.68	ppb	99
22) cis-1,2-Dichloroethene*	2.97	61	900153	51.88	ppb	100
23) Bromochloromethane	3.07	128	206310	51.35	ppb	100
24) Chloroform*	3.09	83	1013309	52.65	ppb	100
25) 2-2-Dichloropropane	3.02	77	834964	51.05	ppb	100
28) 1,2-Dichloroethane	3.49	62	727153	51.37	ppb	97
29) 1,1,1-Trichloroethane*	3.21	97	745932	50.96	ppb	99
30) 1,1-Dichloropropene	3.26	75	765524	53.38	ppb	99
31) Carbon Tetrachloride	3.17	117	687497	51.14	ppb	100
32) Benzene*	3.38	78	2083938	53.14	ppb	100
33) Dibromomethane	3.92	93	350461	50.72	ppb	98
34) 1,2-Dichloropropane	3.97	63	683674	54.90	ppb	98
35) Trichloroethene*	3.68	95	550047	51.30	ppb	98
36) Bromodichloromethane	3.99	83	795911	52.78	ppb	100
37) 2-Chloroethyl-vinyl ether	4.29	63	40222m	214.35	ppb	
38) cis-1,3-Dichloropropene	4.35	75	942685	52.29	ppb	98
39) 4-Methyl-2-Pentanone (MIBK)	4.72	43	1626105	126.96	ppb	98
40) trans-1,3-Dichloropropene	4.75	75	736937	51.62	ppb	96
41) 1,1,2-Trichloroethane	4.86	83	390000	50.75	ppb	99
43) Toluene*	4.50	91	2147416	51.76	ppb	100
44) Ethyl Methacrylate	4.82	69	502289	49.93	ppb	97
45) 1,3-Dichloropropane	5.05	76	735461	50.06	ppb	100
46) 2-Hexanone	5.27	43	1203934	124.90	ppb	98
48) Dibromochloromethane	4.98	129	419669	48.98	ppb	99
49) 1,2-Dibromoethane (EDB)	5.16	107	394961	49.75	ppb	99

(#) = qualifier out of range (m) = manual integration
 2601026.D 013015RC.M Tue Feb 03 19:46:07 2015

Data File : C:\HPCHEM\1\DATA\020215\2601026.D
 Acq On : 2 Feb 2015 7:23 pm
 Sample : LCS 50ppb
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:46 2015

Vial: 26
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Tue Feb 03 19:43:57 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.75	166	424994	51.66	ppb	100
51) 1,1,1,2-Tetrachloroethane*	5.55	131	359694	51.06	ppb	99
52) Chlorobenzene*	5.51	112	1203794	54.20	ppb	98
53) Ethyl Benzene*	5.51	91	2328332	52.97	ppb	99
54) m,p-Xylene	5.62	91	3540498	108.84	ppb	99
55) Bromoform	6.00	173	212002	48.66	ppb	# 99
56) Styrene	5.97	104	1315378	53.47	ppb	99
57) 1,1,2,2-Tetrachloroethane	6.53	85	352274	50.05	ppb	100
58) o-Xylene*	5.93	106	770475	52.18	ppb	98
59) trans-1,4-Dichloro-2-buten	6.68	53	168191	50.65	ppb	98
60) 1,2,3-Trichloropropane	6.65	75	607407	53.56	ppb	96
61) Isopropylbenzene	6.16	105	2080237	54.74	ppb	99
63) Bromobenzene	6.48	156	375553m	49.20	ppb	
64) N-Propylbenzene*	6.48	91	2962237	56.14	ppb	99
65) 2-Chlorotoluene	6.62	91	1562704	48.56	ppb	96
66) 4-Chlorotoluene	6.75	126	390391	51.13	ppb	97
68) 1,3,5-Trimethylbenzene	6.63	105	1538255	60.74	ppb	100
69) tert-butylbenzene	6.89	119	1461220	59.94	ppb	98
70) 1,2,4-Trimethylbenzene	6.94	105	1439444	58.77	ppb	99
71) sec-Butylbenzene	7.04	105	2183031	61.56	ppb	100
72) 1,3-Dichlorobenzene	7.23	146	661317	58.30	ppb	98
73) 1,4-Dichlorobenzene	7.30	148	426045	58.57	ppb	99
74) p-Isopropyltoluene	7.15	119	1501517	61.93	ppb	99
75) 1,2-Dichlorobenzene	7.65	146	604893	56.34	ppb	99
76) N-Butylbenzene	7.50	91	1965788	61.58	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.34	155	34697	50.27	ppb	91
78) 1,2,4-Trichlorobenzene	8.94	180	272989	52.69	ppb	100
79) Naphthalene	9.24	128	426345	52.36	ppb	100
80) Hexachloro-1,3-butadiene	8.91	225	198619	51.29	ppb	99
81) 1,2,3-Trichlorobenzene	9.40	180	219279	51.00	ppb	99
82) 1-Methylnaphthalene	10.34	142	103142	56.36	ppb	99
83) 2-Methylnaphthalene	10.19	142	139363	58.19	ppb	97

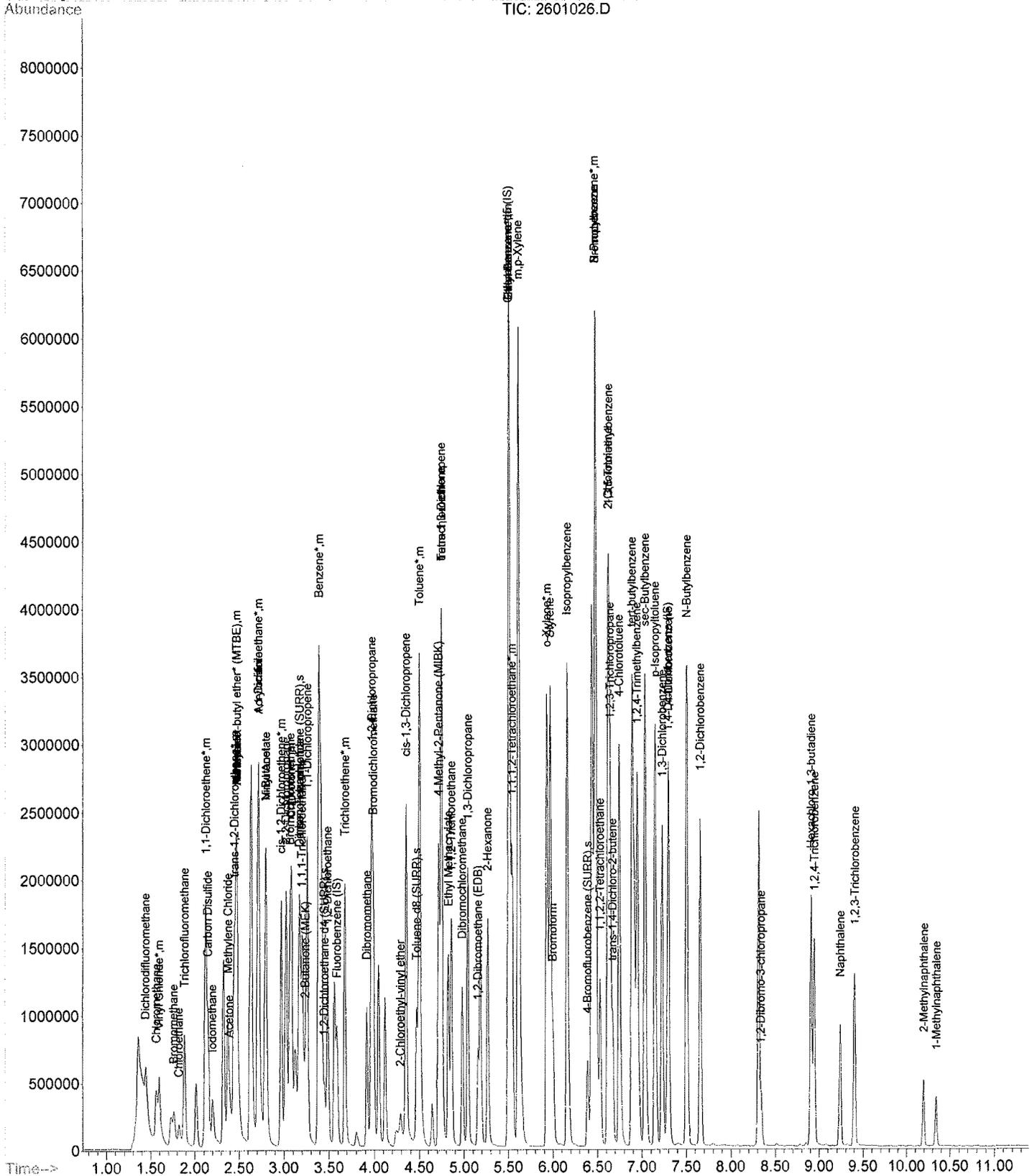
Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215\2601026.D
Acq On : 2 Feb 2015 7:23 pm
Sample : LCS 50ppb
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 3 19:46 2015

Vial: 26
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEX\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Tue Feb 03 19:43:57 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\020215C\4701034.D
 Acq On : 2 Feb 2015 11:58 pm
 Sample : mb
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 3 4:45 2015

Vial: 47
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.72	96	505562	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	379990	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	158502	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.19	113	144549	50.29	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	100.58%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	155694	44.69	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	89.38%
42) Toluene-d8 (SURR)	5.79	98	404238	48.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	97.94%
62) 4-Bromofluorobenzene (SURR)	7.96	95	169298	48.00	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	96.00%

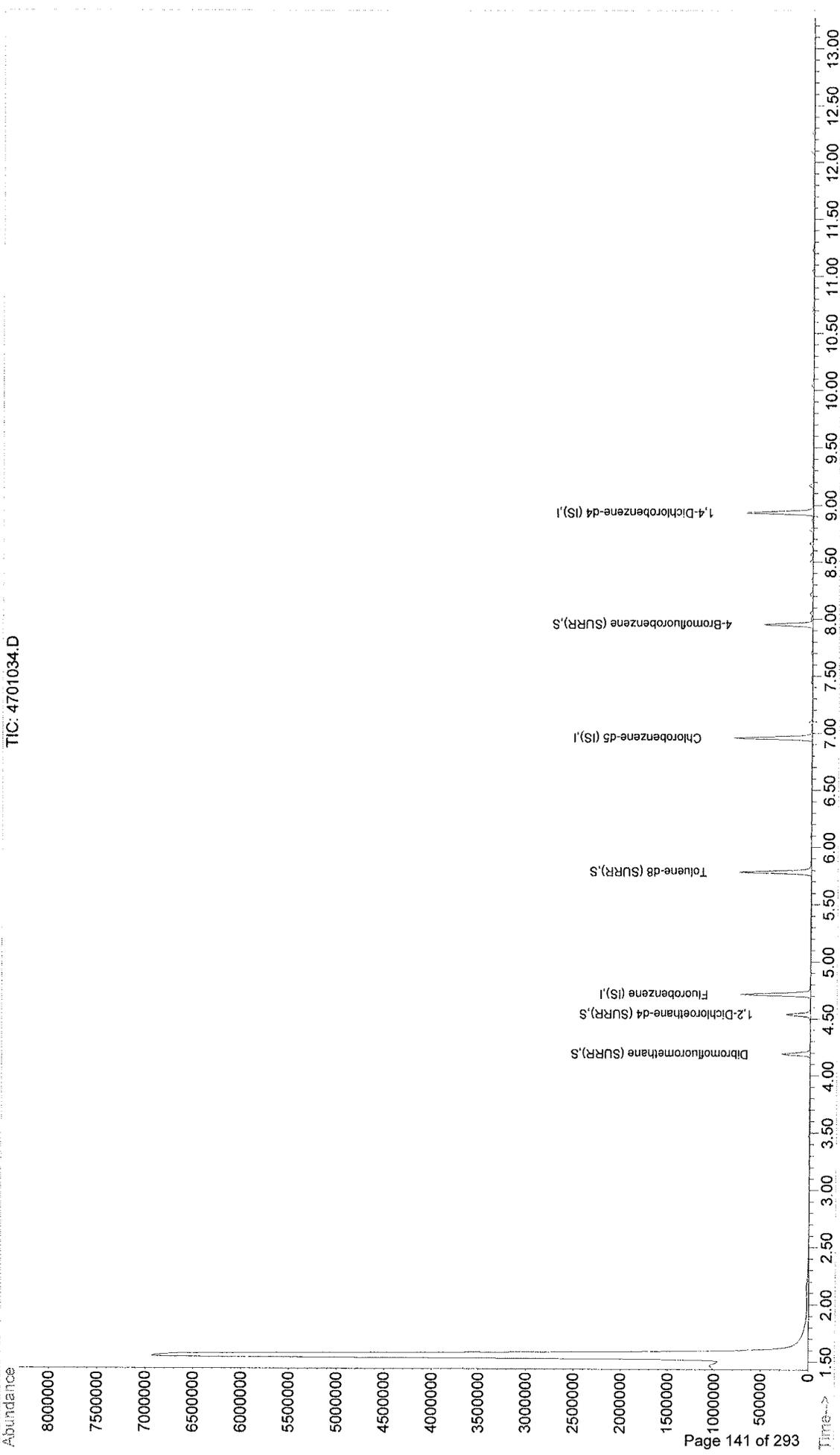
Target Compounds

Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215C\4701034.D
Acq On : 2 Feb 2015 11:58 pm
Sample : mb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Feb 3 4:45 2015
Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration



TIC: 4701034.D

Data File : C:\HPCHEM\1\DATA\020215C\4501032.D
 Acq On : 2 Feb 2015 11:17 pm
 Sample : lcs 50ppb
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 3 4:19 2015

Vial: 45
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	424107	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	321180	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	138840	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.19	113	124550	51.66	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	103.32%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	144094	49.31	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	98.62%
42) Toluene-d8 (SURR)	5.78	98	340357	49.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	98.32%
62) 4-Bromofluorobenzene (SURR)	7.95	95	145980	48.97	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	97.94%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.62	85	278950m	50.92	ug/L	
3) Chloromethane	1.85	50	225671m	49.96	ug/L	
4) Vinyl Chloride	1.85	62	211427	51.31	ug/L	97
5) Bromomethane	2.11	94	136401	50.31	ug/L	# 92
6) Chloroethane	2.20	64	106466	49.87	ug/L	96
7) Acrolein	3.21	56	148719	51.08	ug/L	100
8) Trichlorofluoromethane	2.30	101	301643	55.39	ug/L	98
9) Acetone	3.11	43	111013	120.83	ug/L	# 96
10) 1,1-Dichloroethene	2.67	61	342114	51.63	ug/L	100
11) Acrylonitrile	3.55	53	364931	51.80	ug/L	99
12) Iodomethane	2.77	142	308685	56.31	ug/L	100
13) Methylene Chloride	3.06	84	191368	48.37	ug/L	99
14) Carbon Disulfide	2.69	76	662245	50.27	ug/L	98
15) trans-1,2-Dichloroethene	3.17	96	188217	52.29	ug/L	99
16) Methyl-tert-butyl ether	3.24	73	389258	51.31	ug/L	98
17) 1,1-Dichloroethane	3.56	63	410108	51.83	ug/L	100
18) Vinyl Acetate	3.48	43	265403	50.74	ug/L	# 100
19) N-Hexane	3.21	57	307453	50.54	ug/L	99
20) n-Butanol	3.70	57	146316	51.04	ug/L	99
21) 2-Butanone (MEK)	4.27	43	143345	123.88	ug/L	97
22) cis-1,2-Dichloroethene	3.91	61	304189	52.14	ug/L	99
23) Bromochloromethane	4.04	128	95373	50.90	ug/L	# 98
24) Chloroform	4.07	83	402891	51.21	ug/L	99
25) 2,2-Dichloropropane	3.98	77	323136	52.12	ug/L	100
28) 1,2-Dichloroethane	4.58	62	322187	51.75	ug/L	99
29) 1,1,1-Trichloroethane	4.21	97	339120	51.48	ug/L	99
30) 1,1-Dichloropropene	4.28	75	295474	50.52	ug/L	100
31) Carbon Tetrachloride	4.17	117	293898	51.44	ug/L	99
32) Benzene	4.45	78	734461	50.61	ug/L	98
33) Dibromomethane	5.11	93	125690	52.08	ug/L	97
34) 1,2-Dichloropropane	5.18	63	204791	50.84	ug/L	98
35) Trichloroethene	4.82	95	213601	52.48	ug/L	99
36) Bromodichloromethane	5.21	83	327516	51.36	ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.18	63	204791	203.36	ug/L	# 100
38) cis-1,3-Dichloropropene	5.65	75	350170	50.82	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	6.08	43	356720	127.48	ug/L	98
40) trans-1,3-Dichloropropene	6.11	75	311687	50.33	ug/L	99
41) 1,1,2-Trichloroethane	6.24	83	130806	51.66	ug/L	99
43) Toluene	5.82	91	735470	50.03	ug/L	100
44) Ethyl Methacrylate	5.30	69	110410	50.63	ug/L	98
45) 1,3-Dichloropropane	6.45	76	297135	50.73	ug/L	100
46) 2-Hexanone	6.71	43	254944	127.31	ug/L	98
48) Dibromochloromethane	6.37	129	215407	51.27	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.57	107	170447	51.52	ug/L	99

(#) = qualifier out of range (m) = manual integration
 4501032.D 020215RC.M Wed Feb 04 19:52:01 2015

Data File : C:\HPCHEM\1\DATA\020215C\4501032.D
 Acq On : 2 Feb 2015 11:17 pm
 Sample : lcs 50ppb
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 3 4:19 2015

Vial: 45
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.11	166	198969m	50.01	ug/L	
51) 1,1,1,2-Tetrachloroethane	7.02	131	192328	51.10	ug/L	100
52) Chlorobenzene	6.97	112	502008	50.58	ug/L	99
53) Ethylbenzene	6.98	91	921936	50.13	ug/L	99
54) m,p-Xylene	7.10	91	1410478	100.15	ug/L	100
55) Bromoform	7.52	173	115124	51.36	ug/L	98
56) Styrene	7.49	104	533517	50.29	ug/L	99
57) 1,1,2,2-Tetrachloroethane	8.11	83	190159	49.61	ug/L	100
58) o-Xylene	7.44	106	315996	51.29	ug/L	99
59) trans-1,4-Dichloro-2-buten	8.27	53	61874	48.90	ug/L	96
60) 1,2,3-Trichloropropane	8.25	75	248858	50.91	ug/L #	98
61) Isopropylbenzene	7.70	105	881628	50.54	ug/L	100
63) Bromobenzene	8.05	156	184136	49.96	ug/L	98
64) N-propylbenzene	8.06	91	1097043	49.54	ug/L	100
65) 2-Chlorotoluene	8.20	91	702410	49.47	ug/L	99
66) 4-Chlorotoluene	8.35	126	198669	49.38	ug/L	99
68) 1,3,5-Trimethylbenzene	8.22	105	694383	53.45	ug/L	99
69) tert-Butylbenzene	8.50	119	696366	49.66	ug/L	96
70) 1,2,4-Trimethylbenzene	8.57	105	699397	54.08	ug/L #	99
71) sec-Butylbenzene	8.66	105	967115	52.13	ug/L #	99
72) 1,3-Dichlorobenzene	8.87	146	350836	50.48	ug/L	99
73) 1,4-Dichlorobenzene	8.87	148	223567	51.48	ug/L	99
74) p-Isopropyltoluene	8.78	119	771266	51.84	ug/L	99
75) 1,2-Dichlorobenzene	9.34	146	335519	52.57	ug/L	99
76) N-Butylbenzene	9.17	91	776603	50.56	ug/L	99
77) 1,2-Dibromo-3-chloropropan	10.08	155	24555	51.70	ug/L	93
78) 1,2,4-Trichlorobenzene	10.73	180	180646	47.87	ug/L	97
79) Naphthalene	11.05	128	410932	48.89	ug/L	100
80) Hexachloro-1,3-butadiene	10.69	225	116911	51.30	ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	166711	49.73	ug/L	99
82) 1-methylnaphthalene	12.26	142	169250	50.87	ug/L	96
83) 2-methylnaphthalene	12.10	142	234586	51.89	ug/L	98

Quantitation Report

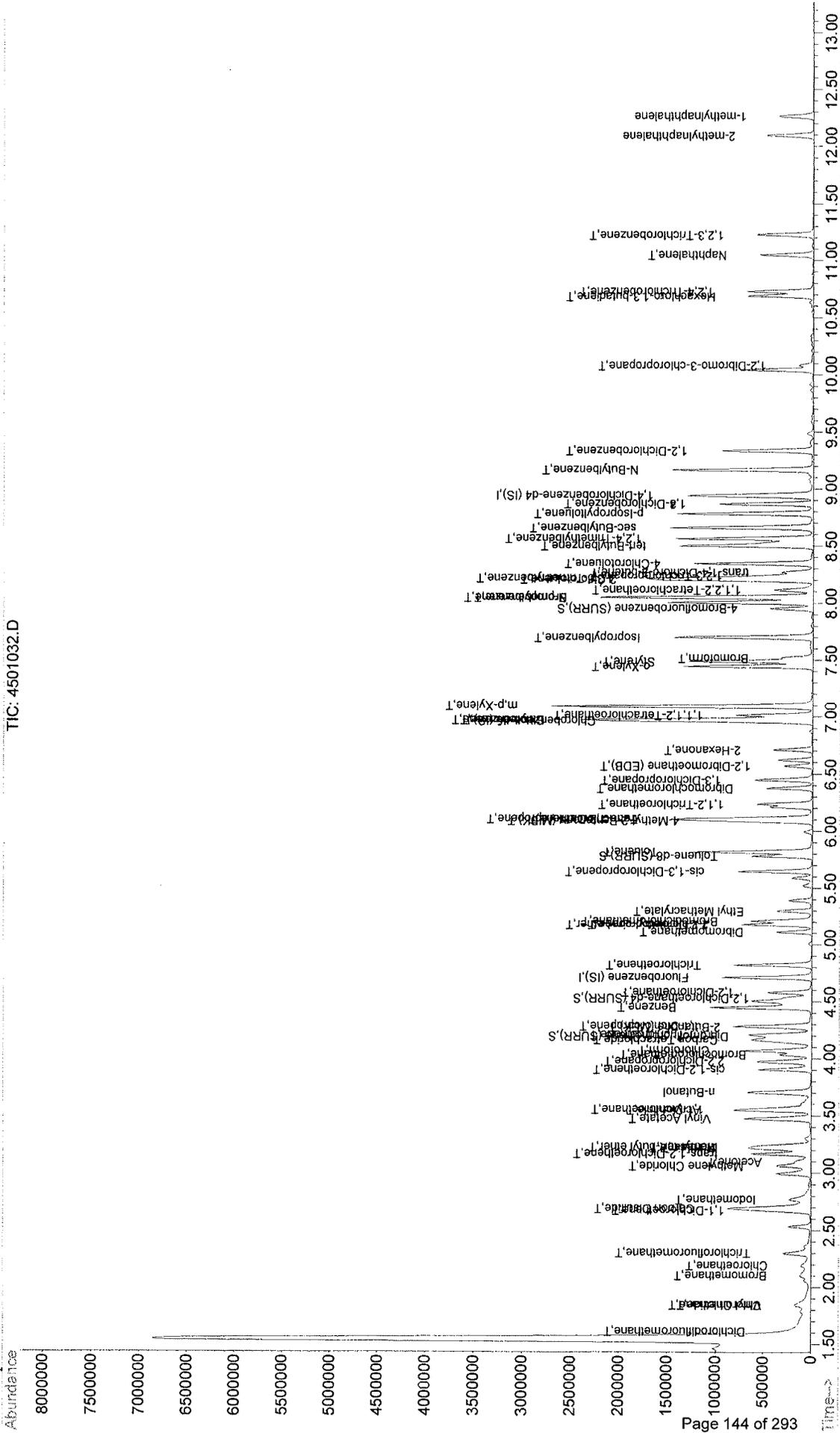
Data File : C:\HPCHEM\1\DATA\020215\4501032.D
Acq On : 2 Feb 2015 11:17 pm
Sample : lcs 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Feb 3 4:19 2015

Vial: 45
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration

TIC: 4501032.D



Data File : C:\HPCHEM\1\DATA\020215C\4601033.D
 Acq On : 2 Feb 2015 11:37 pm
 Sample : lcsd 50ppb
 Misc : qc
 MS Integration Params: rteint.p
 Quant Time: Feb 4 19:52 2015

Vial: 46
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	445402	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	330845	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.94	152	144074	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	4.19	113	126790	50.07	ug/L	0.00
Spiked Amount	50.000	Range	69 - 137	Recovery	=	100.14%
27) 1,2-Dichloroethane-d4 (SUR)	4.54	65	146839	47.84	ug/L	0.00
Spiked Amount	50.000	Range	67 - 144	Recovery	=	95.68%
42) Toluene-d8 (SURR)	5.78	98	356697	49.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 128	Recovery	=	98.10%
62) 4-Bromofluorobenzene (SURR)	7.95	95	151774	49.42	ug/L	0.00
Spiked Amount	50.000	Range	62 - 145	Recovery	=	98.84%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.72	85	278279m	48.36	ug/L	
3) Chloromethane	1.85	50	207759	43.79	ug/L	97
4) Vinyl Chloride	1.84	62	214373	49.54	ug/L #	86
5) Bromomethane	2.11	94	143066	50.25	ug/L #	97
6) Chloroethane	2.20	64	116751	52.08	ug/L	99
7) Acrolein	3.22	56	150189	49.12	ug/L #	98
8) Trichlorofluoromethane	2.30	101	310027	54.20	ug/L	98
9) Acetone	3.10	43	106482	110.36	ug/L #	95
10) 1,1-Dichloroethene	2.67	61	347932	50.00	ug/L	99
11) Acrylonitrile	3.55	53	370871	50.13	ug/L	99
12) Iodomethane	2.78	142	309868	53.82	ug/L	100
13) Methylene Chloride	3.07	84	192454	46.32	ug/L	98
14) Carbon Disulfide	2.69	76	679386	49.10	ug/L	99
15) trans-1,2-Dichloroethene	3.17	96	191078	50.55	ug/L	98
16) Methyl-tert-butyl ether	3.24	73	395177	49.60	ug/L	98
17) 1,1-Dichloroethane	3.57	63	419331	50.47	ug/L	100
18) Vinyl Acetate	3.48	43	272914	49.68	ug/L #	100
19) N-Hexane	3.22	57	313964	49.14	ug/L	100
20) n-Butanol	3.71	57	150719	50.07	ug/L	99
21) 2-Butanone (MEK)	4.27	43	145040	119.35	ug/L	100
22) cis-1,2-Dichloroethene	3.91	61	304578	49.71	ug/L	99
23) Bromochloromethane	4.04	128	99750	50.69	ug/L #	98
24) Chloroform	4.07	83	406571	49.21	ug/L	100
25) 2,2-Dichloropropane	3.98	77	329961	50.68	ug/L	99
28) 1,2-Dichloroethane	4.58	62	323445	49.47	ug/L	99
29) 1,1,1-Trichloroethane	4.21	97	345015	49.87	ug/L	100
30) 1,1-Dichloropropene	4.29	75	301231	49.04	ug/L	99
31) Carbon Tetrachloride	4.17	117	301177	50.20	ug/L	99
32) Benzene	4.45	78	748421	49.11	ug/L	98
33) Dibromomethane	5.11	93	124277	49.03	ug/L	99
34) 1,2-Dichloropropane	5.18	63	208346	49.25	ug/L	99
35) Trichloroethene	4.82	95	214878	50.26	ug/L	99
36) Bromodichloromethane	5.21	83	332125	49.59	ug/L	100
37) 2-Chloroethyl-vinyl-ether	5.18	63	208346	197.00	ug/L #	99
38) cis-1,3-Dichloropropene	5.65	75	353816	48.90	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	6.08	43	349132	118.80	ug/L	99
40) trans-1,3-Dichloropropene	6.12	75	314104	48.30	ug/L	99
41) 1,1,2-Trichloroethane	6.24	83	129387	48.66	ug/L	99
43) Toluene	5.82	91	747494	48.42	ug/L	100
44) Ethyl Methacrylate	5.30	69	113477	49.55	ug/L	96
45) 1,3-Dichloropropane	6.45	76	298718	48.56	ug/L	100
46) 2-Hexanone	6.72	43	254756	121.14	ug/L	99
48) Dibromochloromethane	6.38	129	214844	49.65	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.57	107	172205	50.53	ug/L	99

(#) = qualifier out of range (m) = manual integration
 4601033.D 020215RC.M Wed Feb 04 19:52:33 2015

Data File : C:\HPCHEM\1\DATA\020215C\4601033.D
 Acq On : 2 Feb 2015 11:37 pm
 Sample : lcsd 50ppb
 Misc : qc

Vial: 46
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Feb 4 19:52 2015

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	6.10	166	223097m	54.44	ug/L	
51) 1,1,1,2-Tetrachloroethane	7.01	131	197802	51.02	ug/L	99
52) Chlorobenzene	6.97	112	510514	49.93	ug/L	99
53) Ethylbenzene	6.98	91	935326	49.37	ug/L	99
54) m,p-Xylene	7.09	91	1437616	99.09	ug/L	99
55) Bromoform	7.52	173	117619	50.94	ug/L #	98
56) Styrene	7.49	104	542629	49.66	ug/L	100
57) 1,1,2,2-Tetrachloroethane	8.11	83	190181	48.16	ug/L	99
58) o-Xylene	7.45	106	318626	50.21	ug/L	99
59) trans-1,4-Dichloro-2-buten	8.27	53	64238	49.28	ug/L	98
60) 1,2,3-Trichloropropane	8.24	75	247134	49.08	ug/L #	99
61) Isopropylbenzene	7.71	105	897799	49.96	ug/L	100
63) Bromobenzene	8.05	156	188741	49.72	ug/L	98
64) N-propylbenzene	8.06	91	1125127	49.33	ug/L	100
65) 2-Chlorotoluene	8.20	91	715532	48.92	ug/L	100
66) 4-Chlorotoluene	8.35	126	204205	49.27	ug/L	98
68) 1,3,5-Trimethylbenzene	8.22	105	693132	51.41	ug/L	99
69) tert-Butylbenzene	8.51	119	711146	48.87	ug/L	95
70) 1,2,4-Trimethylbenzene	8.57	105	696504	51.90	ug/L #	100
71) sec-Butylbenzene	8.66	105	987181	51.28	ug/L #	99
72) 1,3-Dichlorobenzene	8.87	146	360972	50.05	ug/L	100
73) 1,4-Dichlorobenzene	8.87	148	228725	50.76	ug/L	100
74) p-Isopropyltoluene	8.78	119	786851	50.97	ug/L	99
75) 1,2-Dichlorobenzene	9.34	146	337832	51.01	ug/L	100
76) N-Butylbenzene	9.17	91	787422	49.40	ug/L	100
77) 1,2-Dibromo-3-chloropropan	10.09	155	25757	52.26	ug/L	98
78) 1,2,4-Trichlorobenzene	10.73	180	188292	48.08	ug/L	96
79) Naphthalene	11.05	128	420358	48.20	ug/L	100
80) Hexachloro-1,3-butadiene	10.69	225	120779	51.08	ug/L	99
81) 1,2,3-Trichlorobenzene	11.23	180	172051	49.46	ug/L	98
82) 1-methylnaphthalene	12.26	142	173723	50.32	ug/L	99
83) 2-methylnaphthalene	12.10	142	239539	51.06	ug/L	100

Quantitation Report

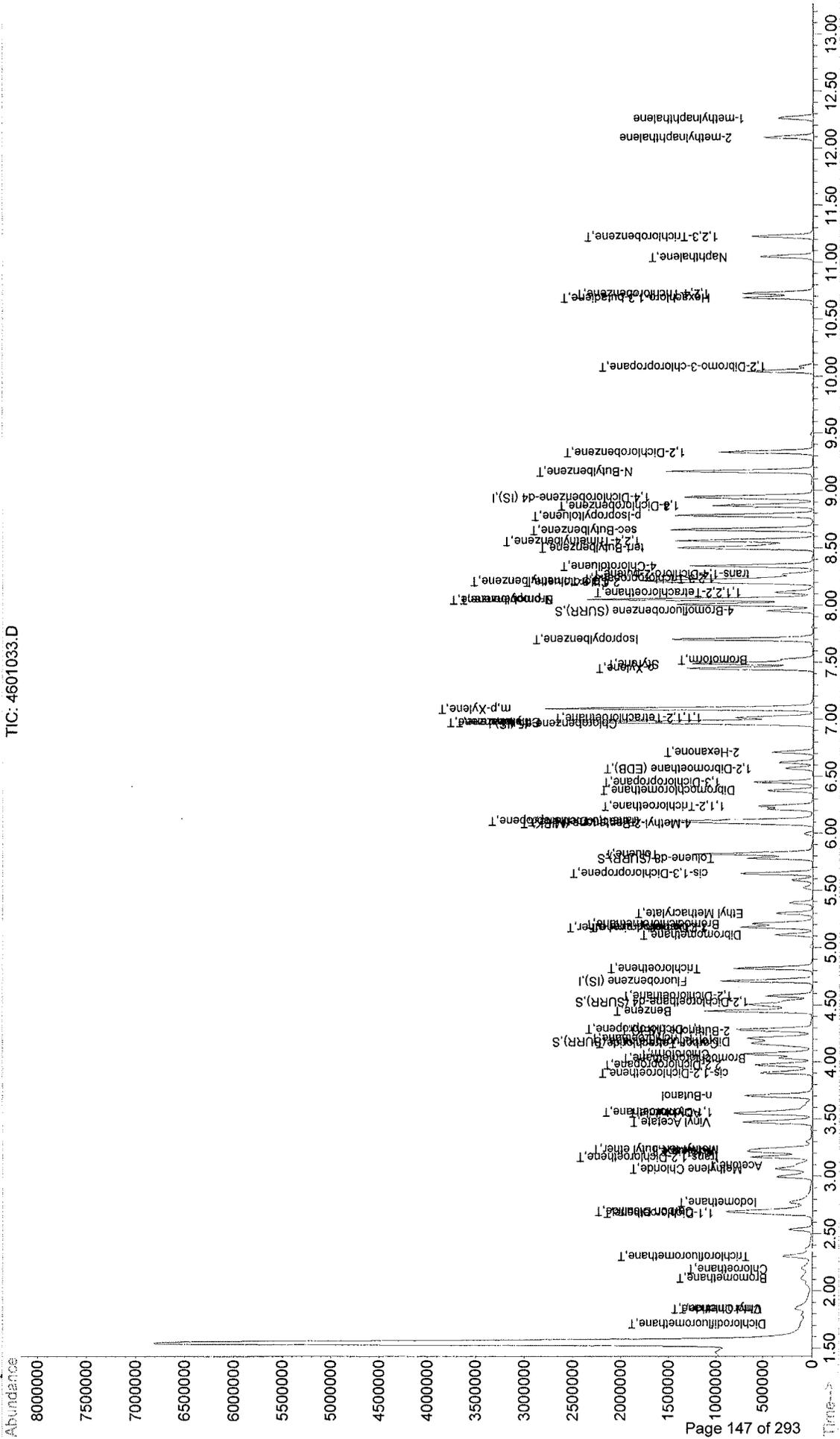
Data File : C:\HPCHEM\1\DATA\020215C\4601033.D
Acq On : 2 Feb 2015 11:37 pm
Sample : lcsd 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Feb 4 19:52 2015

Vial: 46
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration

TIC: 4601033.D





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8260 VOC

- Raw Sample Data

Data File : C:\HPCHEM\1\DATA\020215\4601009.D
 Acq On : 3 Feb 2015 1:30 am
 Sample : 1561
 Misc : 010715 VOC1 curve, 8260 ical
 MS Integration Params: rteint.p
 Quant Time: Feb 3 19:22 2015

Vial: 46
 Operator: gjd
 Inst : VOC 1
 Multiplr: 1.00

Quant Results File: 013015RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
 Title : 8260 Volatile Soil Calibration
 Last Update : Sun Feb 01 04:25:40 2015
 Response via : Initial Calibration
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.59	96	448219	50.00	ppb	0.05
47) Chlorobenzene-d5 (IS)	5.50	117	218408	50.00	ppb	0.06
67) 1,4-Dichlorobenzene (IS)	7.29	152	36744	50.00	ppb	0.07

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.18	113	135329	52.13	ppb	0.05
Spiked Amount	50.000	Range 54 - 140	Recovery	=	104.26%	
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	163361	51.89	ppb	0.05
Spiked Amount	50.000	Range 54 - 138	Recovery	=	103.78%	
42) Toluene-d8 (SURR)	4.47	98	377317	48.08	ppb	0.06
Spiked Amount	50.000	Range 61 - 127	Recovery	=	96.16%	
62) 4-Bromofluorobenzene (SURR)	6.39	95	109863	47.91	ppb	0.06
Spiked Amount	50.000	Range 69 - 131	Recovery	=	95.82%	

Target Compounds

Qvalue

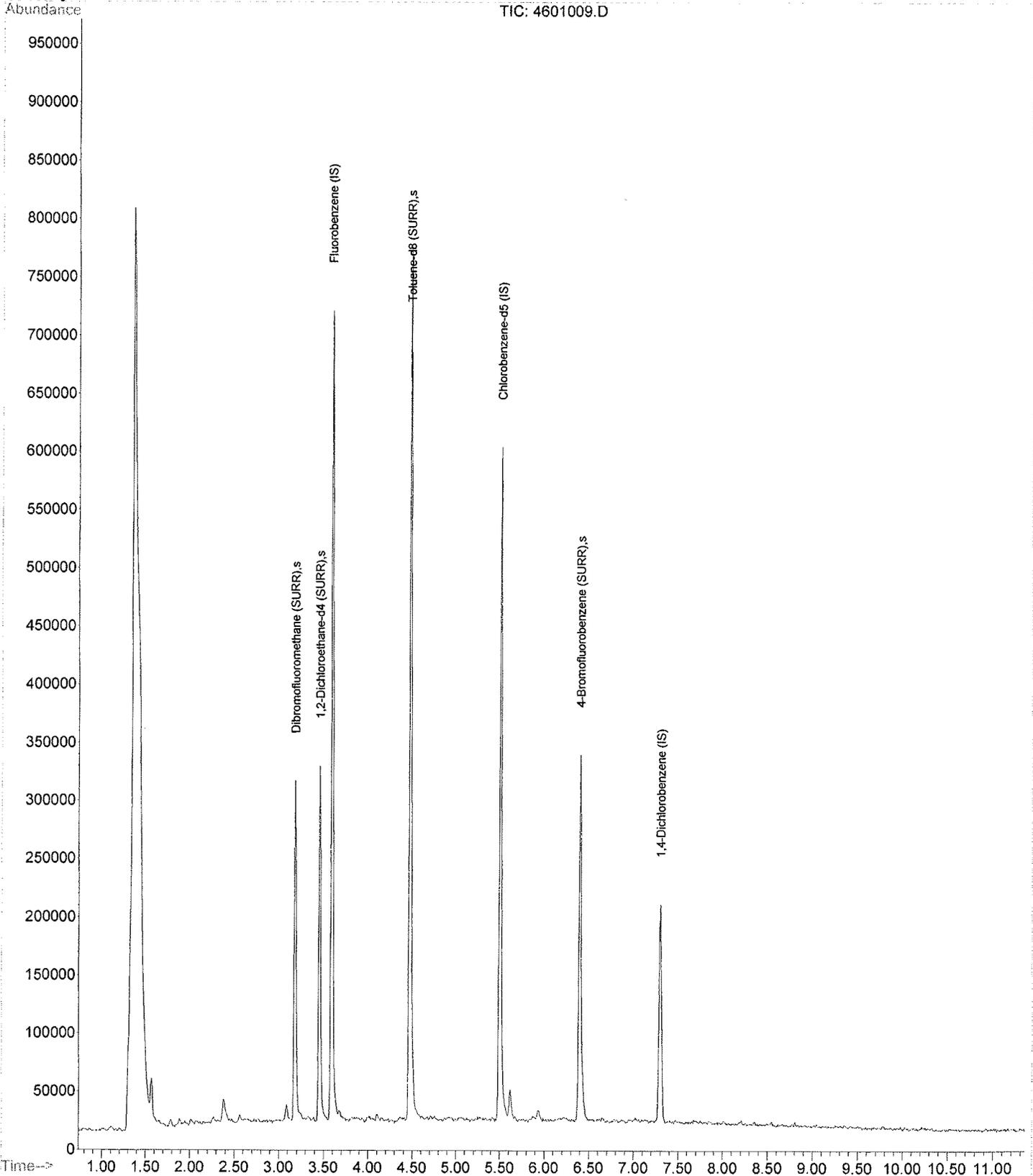
Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215\4601009.D
Acq On : 3 Feb 2015 1:30 am
Sample : 1561
Misc : 010715 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 3 19:22 2015

Vial: 46
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 013015RC.RES

Method : C:\HPCHEM\MSEXEXE\013015RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Sun Feb 01 04:25:40 2015
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\020215C\6301050.D
 Acq On : 3 Feb 2015 5:24 am
 Sample : 15-1567
 Misc : a

Vial: 63
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Feb 4 19:50 2015

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	507489	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	384186	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.93	152	161740	50.00	ug/L	0.00

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	4.18	113	155270	53.82	ug/L	0.00
Spiked Amount	50.000	Range 69 - 137	Recovery	=	107.64%	
27) 1,2-Dichloroethane-d4 (SUR)	4.53	65	178823	51.14	ug/L	0.00
Spiked Amount	50.000	Range 67 - 144	Recovery	=	102.28%	
42) Toluene-d8 (SURR)	5.78	98	405868	48.99	ug/L	0.00
Spiked Amount	50.000	Range 60 - 128	Recovery	=	97.98%	
62) 4-Bromofluorobenzene (SURR)	7.95	95	175218	49.14	ug/L	0.00
Spiked Amount	50.000	Range 62 - 145	Recovery	=	98.28%	

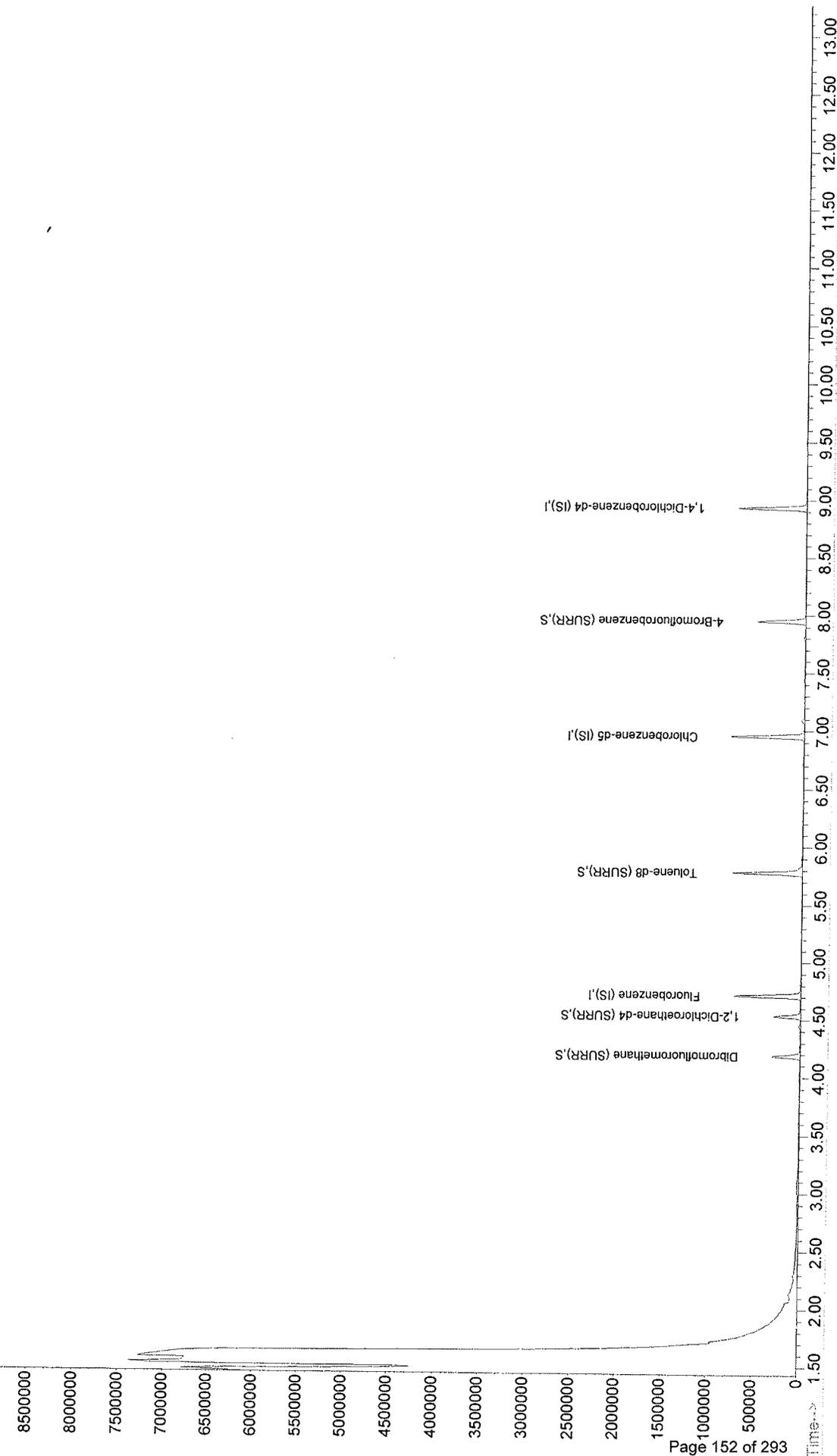
Target Compounds Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\020215C\6301050.D
Acq On : 3 Feb 2015 5:24 am Vial: 63
Sample : 15-1567 Operator: GJD
Misc : a Inst : GC/MS #2
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Feb 4 19:50 2015 Quant Results File: 020215RC.RES

Method : F:\HPCHEM\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voc analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration

Abundance
TIC: 6301050.D



Data File : C:\HPCHEM\1\DATA\020215C\6801055.D
 Acq On : 3 Feb 2015 7:07 am
 Sample : 15-1571 tb
 Misc : a

Vial: 68
 Operator: GJD
 Inst : GC/MS #2
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Feb 4 19:51 2015

Quant Results File: 020215RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\020215RC.M (RTE Integrator)
 Title : 8260 voa analysis
 Last Update : Mon Feb 02 11:53:38 2015
 Response via : Initial Calibration
 DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.71	96	528063	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.96	117	399478	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	8.93	152	168276	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	4.19	113	158987	52.96	ug/L	0.00
Spiked Amount	50.000	Range 69 - 137	Recovery =	105.92%		
27) 1,2-Dichloroethane-d4 (SUR)	4.53	65	184011	50.57	ug/L	0.00
Spiked Amount	50.000	Range 67 - 144	Recovery =	101.14%		
42) Toluene-d8 (SURR)	5.78	98	418145	48.50	ug/L	0.00
Spiked Amount	50.000	Range 60 - 128	Recovery =	97.00%		
62) 4-Bromofluorobenzene (SURR)	7.95	95	181220	48.87	ug/L	0.00
Spiked Amount	50.000	Range 62 - 145	Recovery =	97.74%		

Target Compounds

Qvalue

Quantitation Report

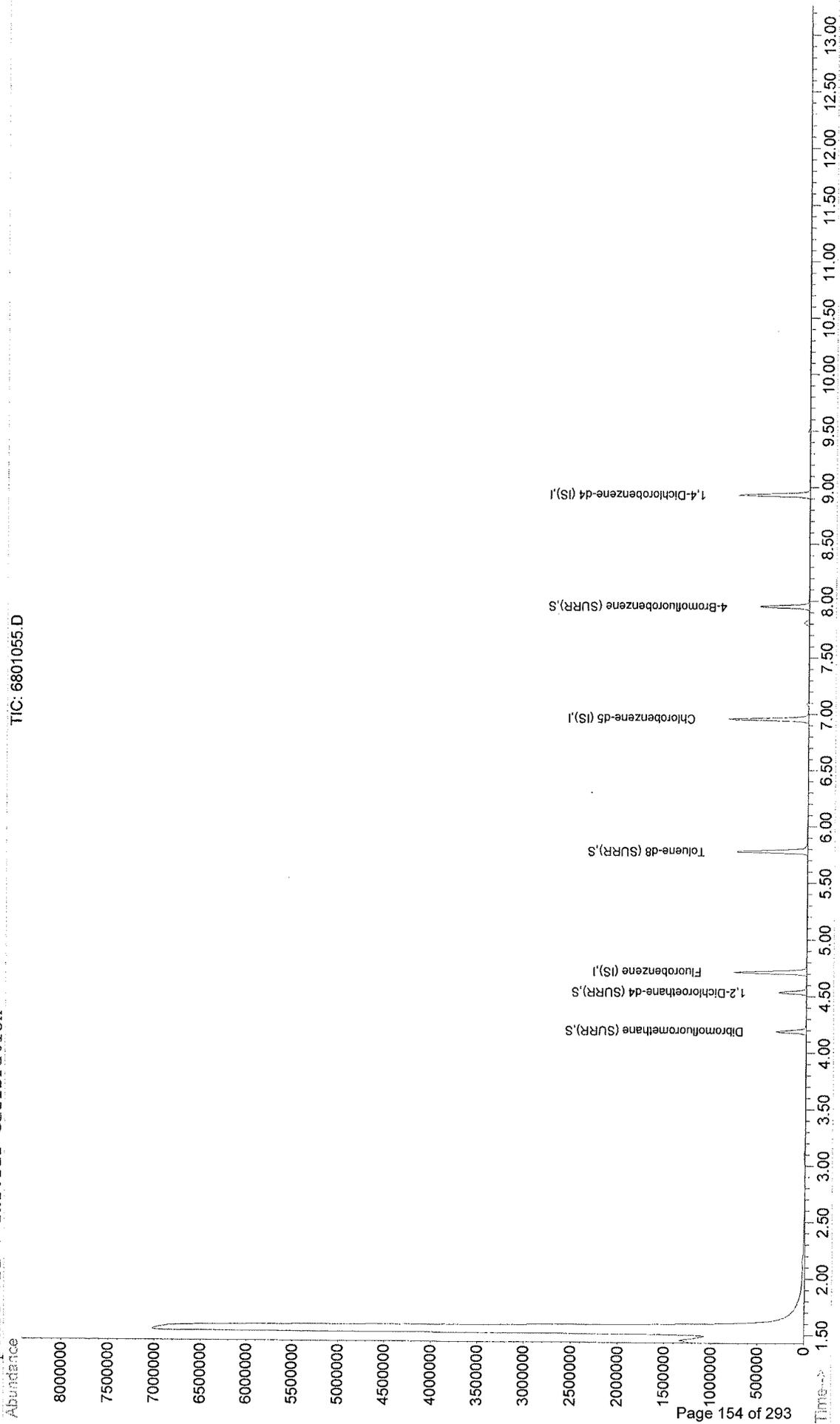
Data File : C:\HECHEM\1\DATA\020215C\6801055.D
Acq On : 3 Feb 2015 7:07 am
Sample : 15-1571 tb
Misc : a
MS Integration Params: rteint.p
Quant Time: Feb 4 19:51 2015

Vial: 68
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 020215RC.RES

Method : F:\HECHEM\1\1\METHODS\020215RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Mon Feb 02 11:53:38 2015
Response via : Initial Calibration

TIC: 6801055.D





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8270 SVOC
Package Review

ENVision Project#: 2015-216

Sequence Log / Extraction Log

8270 Soil / Water Limits

Initial Calibration Data: Calibration Curve: 010715 Pw. Lu 5972E

Tune

111814 LY.M 6890N

Initial Calibration Summary

Initial Calibration Quant Reports

Initial Calibration Verification Summary

Continuing Calibration Data

Tune Data

Continuing Calibration Verification Summary

Continuing Calibration Verification (CCV) Quant Report

Internal Standard Area Summary

Quality Control Data

Method Blank (MB)

Laboratory Control Standard (LCS)

Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Not Requested

Raw Sample Data (if applicable -- Level IV)

The contents of this Level QA/QC package have been reviewed for completeness and compliance with method requirements.

Secondary Review performed by: L. Harrison

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2015-216

Level IV

8270 SVOC

- Extraction Logbook
- Sequence Log



Section 1

PAH-SIM Statistical Control Limits

Effective Date 1-1-14

Surrogate	Water Limits, % Rec.	Soil Limits, % Rec.
Nitrobenzene-d5	6 – 107	
2-Fluorobiphenyl	3 – 99	
p-Terphenyl-d14	1 – 109	

LCS	Water Limits, % Rec.	Soil Limits, % Rec.
Naphthalene	36 – 175	
2-Methylnaphthalene	35 – 171	
1-Methylnaphthalene	28 – 152	
Acenaphthylene	30 – 92	
Acenaphthene	31 – 94	
Fluorene	34 – 101	
Anthracene	35 – 103	
Phenanthrene	32 – 96	
Fluoranthene	34 – 102	
Pyrene	34 – 103	
Benzo(a)anthracene	34 – 101	
Chrysene	32 – 97	
Benzo(b)fluoranthene	35 – 104	
Benzo(k)fluoranthene	34 – 101	
Benzo(a)pyrene	34 – 102	
Indeno(1,2,3-cd)pyrene	31 – 94	
Dibenz(a,h)anthracene	31 – 94	
Benzo(g,h,i)perylene	30 – 89	

MS/MSD	Water Limits, % Rec.	Soil Limits, % Rec.
Naphthalene	32 – 114	
2-Methylnaphthalene	19 – 116	
1-Methylnaphthalene	30 – 98	
Acenaphthylene	20 – 106	
Acenaphthene	14 – 114	
Fluorene	9 – 121	
Anthracene	9 – 125	
Phenanthrene	8 – 125	
Fluoranthene	1 – 139	
Pyrene	1 – 135	
Benzo(a)anthracene	5 – 119	
Chrysene	7 – 111	
Benzo(b)fluoranthene	1 – 129	
Benzo(k)fluoranthene	1 – 127	
Benzo(a)pyrene	1 – 128	
Indeno(1,2,3-cd)pyrene	1 – 114	
Dibenz(a,h)anthracene	1 – 114	
Benzo(g,h,i)perylene	1 – 109	

PNA Statistical Control Limits
Effective Date 1-1-14

Surrogate	Soil Limits, % Rec.
Nitrobenzene-d5	16.52 – 102.19
2-Fluorobiphenyl	10.25 – 120.18
p-Terphenyl-d14	15.89 – 143.66

LCS	Soil Limits, % Rec.
Naphthalene	25 – 83
2-Methylnaphthalene	19 - 87
1-Methylnaphthalene	29 - 91
Acenaphthylene	26 - 83
Acenaphthene	25 - 85
Fluorene	36 - 88
Phenanthrene	16 - 103
Anthracene	27 - 96
Fluoranthene	12 - 107
Pyrene	37 - 106
Benzo(a)anthracene	27 - 90
Chrysene	36 - 95
Benzo(b)fluoranthene	29 - 101
Benzo(k)fluoranthene	35 - 107
Benzo(a)pyrene	28 - 101
Indeno(1,2,3-cd)pyrene	19 - 100
Dibenz(a,h)anthracene	20 - 97
Benzo(g,h,i)perylene	20 - 95

MS/MSD	Soil Limits, % Rec.
Naphthalene	7 - 84
2-Methylnaphthalene	4 - 83
1-Methylnaphthalene	17 - 83
Acenaphthylene	11 - 83
Acenaphthene	10 - 84
Fluorene	15 - 84
Phenanthrene	11 - 82
Anthracene	17 - 87
Fluoranthene	4 - 95
Pyrene	17 - 98
Benzo(a)anthracene	11 - 82
Chrysene	145 - 96
Benzo(b)fluoranthene	13 - 89
Benzo(k)fluoranthene	16 - 97
Benzo(a)pyrene	15 - 90
Indeno(1,2,3-cd)pyrene	9 - 84
Dibenz(a,h)anthracene	8 - 85
Benzo(g,h,i)perylene	5 - 82

Starting sequence Tue Nov 18 13:28:03 2014

Instrument Name: 59731
 Sequence File: C:\msdchem\1\sequence\111814.s
 Comment:
 Operator: AJG
 Data Path: C:\MSDCHEM\1\DATA\111814\A
 Method Path: C:\MSDCHEM\1\METHODS\

PMA-Sim Curve LYI
111814 LY-M 6890N

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	1 N_7159	DFTPP	DFTPP SV-2516	MPS Tray: Tray1,VT98 MPS Injector: Rear
2) Sample	1 N_7160	DFTPP	DFTPP SV-2516	MPS Tray: Tray1,VT98 MPS Injector: Rear
3) Sample	2 N_7161	JT5_X	2.5/5.0 SV-2521 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
4) Sample	3 N_7162	JT5_X	0.022 SV-2522 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
5) Sample	4 N_7163	JT5_X	0.05 SV-2523 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
6) Sample	5 N_7164	JT5_X	0.1/0.2 SV-2524 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
7) Sample	6 N_7165	JT5_X	0.2/0.4 SV-2525 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
8) Sample	7 N_7166	JT5_X	0.5/1.0 SV-2526 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
9) Sample	8 N_7167	JT5_X	1.0/2.0 SV-2527 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
10) Sample	9 N_7168	JT5_X	5.0/10.0 SV-2528 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
11) Sample	10 N_7169	JT5_X	ICV 2.5/5.0 SV-2529 CURVE	MPS Tray: Tray1,VT98 MPS Injector: Rear
12) Sample	1 N_7170	DFTPP	DFTPP SV-2516	MPS Tray: Tray1,VT98 MPS Injector: Rear
13) Sample	1 N_7171	DFTPP	DFTPP SV-2516	MPS Tray: Tray1,VT98 MPS Injector: Rear
14) Sample	10 N_7172	JT5_X	2.5/5.0 SV-2521 CCV	MPS Tray: Tray1,VT98 MPS Injector: Rear
15) Sample	11 N_7173	JT5_X	PREP BLK PW1 11-14 /SV-2552	MPS Tray: Tray1,VT98 MPS Injector: Rear
16) Sample	12 N_7174	JT5_X	LCS1 PW1 11-14 /SV-2434	MPS Tray: Tray1,VT98 MPS Injector: Rear
17) Sample	13 N_7175	JT5_X	LCS2 PW1 11-14 /SV-2434	MPS Tray: Tray1,VT98 MPS Injector: Rear
18) Sample	14 N_7176	JT5_X	14-25671 D PW1 11-14	MPS Tray: Tray1,VT98 MPS Injector: Rear
19) Sample	15 N_7177	JT5_X	14-25672 D PW1 11-14	MPS Tray: Tray1,VT98 MPS Injector: Rear

20) Sample	16 N_7178	JT5_X	14-25678 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
21) Sample	17 N_7179	JT5_X	14-25679 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
22) Sample	18 N_7180	JT5_X	14-25680 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
23) Sample	19 N_7181	JT5_X	14-25681 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
24) Sample	20 N_7182	JT5_X	14-25682 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
25) Sample	21 N_7183	JT5_X	14-25683 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
26) Sample	22 N_7184	JT5_X	14-25684 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
27) Sample	23 N_7185	JT5_X	14-25685 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
28) Sample	24 N_7186	JT5_X	14-25686 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
29) Sample	25 N_7187	JT5_X	14-25687 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
30) Sample	26 N_7188	JT5_X	14-25688 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
31) Sample	27 N_7189	JT5_X	14-25689 D PW1 11-14
MPS Tray:	Tray1,VT98		MPS Injector: Rear
32) Sample	1 N_7190	DFTPP	DFTPP SV-2516
MPS Tray:	Tray1,VT98		MPS Injector: Rear
33) Sample	1 N_7191	DFTPP	DFTPP SV-2516
MPS Tray:	Tray1,VT98		MPS Injector: Rear
34) Sample	10 N_7192	JT5_X	2,5/5.0 SV-2521 CCV
MPS Tray:	Tray1,VT98		MPS Injector: Rear
35) Sample	28 N_7193	JT5_X	PRBP BLK PW1 11-17 /SV-2552
MPS Tray:	Tray1,VT98		MPS Injector: Rear
36) Sample	29 N_7194	JT5_X	LCS1 PW1 11-17 /SV-2534
MPS Tray:	Tray1,VT98		MPS Injector: Rear
37) Sample	30 N_7195	JT5_X	LCS2 PW1 11-17 /SV-2534
MPS Tray:	Tray1,VT98		MPS Injector: Rear
38) Sample	31 N_7196	JT5_X	14-25775 D PW1 11-17
MPS Tray:	Tray1,VT98		MPS Injector: Rear
39) Sample	32 N_7197	JT5_X	14-25776 D PW1 11-17
MPS Tray:	Tray1,VT98		MPS Injector: Rear
40) Sample	33 N_7198	JT5_X	14-25777 D PW1 11-17
MPS Tray:	Tray1,VT98		MPS Injector: Rear
41) Sample	34 N_7199	JT5_X	14-25778 D PW1 11-17
MPS Tray:	Tray1,VT98		MPS Injector: Rear
42) Sample	35 N_7200	JT5_X	14-25779 D PW1 11-17
MPS Tray:	Tray1,VT98		MPS Injector: Rear

2014 Nov 18 1328 Sequence Log .LOG

43) Sample	36 N_7201	JT5_X	14-25780	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
44) Sample	37 N_7202	JT5_X	14-25781	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
45) Sample	38 N_7203	JT5_X	14-25782	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
46) Sample	39 N_7204	JT5_X	14-25783	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
47) Sample	40 N_7205	JT5_X	14-25784	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
48) Sample	41 N_7206	JT5_X	14-25785	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
49) Sample	42 N_7207	JT5_X	14-25874	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
50) Sample	43 N_7208	JT5_X	14-25875	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
51) Sample	44 N_7209	JT5_X	14-25876	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
52) Sample	45 N_7210	JT5_X	14-25877	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
53) Sample	46 N_7211	JT5_X	14-25878	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
54) Sample	47 N_7212	JT5_X	14-25879	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		
55) Sample	48 N_7213	JT5_X	14-25880	D	PW1	11-17
MPS Tray:	Tray1,VT98		MPS Injector:	Rear		

Sequence completed Wed Nov 19 11:29:06 2014

C:\MSDCHEM\DATA\111814\2014 Nov 18 1328 Quality Log.LOG
C:\MSDCHEM\DATA\111814\2014 Nov 18 1328 Sequence Log .LOG

Injection Log

Directory: C:\HPCHEM\1\DATA\010715

PMA Curve
010715PN.Res
5978 Injected

Line	Vial	FileName	Multiplier	SampleName	Misc Info	
1	2	R_0020.D	1.	DFTPP SV-2557	ISTD#SV-2462	7 Jan 2015 09:38
2	2	R_0021.D	1.	DFTPP SV-2557	ISTD#SV-2462	7 Jan 2015 09:52
3	6	R_0022.D	1.	40/80 CURVE SV-2547	ISTD#SV-2532	7 Jan 2015 10:08
4	7	R_0023.D	1.	1/2 CURVE SV-2507	ISTD#SV-2532	7 Jan 2015 10:34
5	8	R_0024.D	1.	5/10 CURVE SV-2508	ISTD#SV-2532	7 Jan 2015 11:00
6	9	R_0025.D	1.	10/20 CURVE SV-2509	ISTD#SV-2532	7 Jan 2015 11:27
7	10	R_0026.D	1.	20/40 CURVE SV-2510	ISTD#SV-2532	7 Jan 2015 11:53
8	11	R_0027.D	1.	30/60 CURVE SV-2511	ISTD#SV-2532	7 Jan 2015 12:19
9	12	R_0028.D	1.	50/100 CURVE SV-2512	ISTD#SV-2532	7 Jan 2015 12:45
10	13	R_0029.D	1.	60/120 CURVE SV-2513	ISTD#SV-2532	7 Jan 2015 13:11
11	14	R_0030.D	1.	70/140 CURVE SV-2514	ISTD#SV-2532	7 Jan 2015 13:37
12	15	R_0031.D	1.	ICV 40/80 SV-2515	ISTD#SV-2532	7 Jan 2015 14:04
13	2	R_0032.D	1.	DFTPP SV-2557	ISTD#SV-2462	7 Jan 2015 16:04
14	3	R_0033.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	7 Jan 2015 16:20

Injection Log

2015-2164
PMA-Sun

Directory: C:\HPCHEM\1\DATA\013115

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	R_0460.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	31 Jan 2015 08:25
2	2	R_0461.D	1.	DFTPP SV-2557	ISTD#SV-2462	31 Jan 2015 08:48
3	2	R_0462.D	1.	DFTPP SV-2557	ISTD#SV-2462	31 Jan 2015 09:02
4	3	R_0463.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	31 Jan 2015 09:19
5	6	R_0464.D	1.	15-998 D BS1 BURRITO RR	PB# REXTRACTION 17G/1.0ML	31 Jan 2015 09:50
6	7	R_0465.D	1.	PREP BLK TCLP 1-27	PB#012715TCLP 200ML/1.0ML	31 Jan 2015 10:17
7	8	R_0466.D	1.	15-1426 TCLP 1-27	PB#012715TCLP 200ML/1.0ML	31 Jan 2015 10:43
8	9	R_0467.D	1.	15-1426MS TCLP 1-27	PB#012715TCLP 200ML/1.0ML	31 Jan 2015 11:09
9	5	R_0468.D	1.	BLK	BLK	31 Jan 2015 11:36
10	10	R_0469.D	1.	15-1019 D 10X PS1 1-27	PB#012715PS1 30G/1.0ML	31 Jan 2015 12:02
11	11	R_0470.D	1.	15-1020 D PS1 1-27	PB#012715PS1 30G/1.0ML	31 Jan 2015 12:28
12	12	R_0471.D	1.	15-1021 10X D PS1 1-27	PB#012715PS1 30G/1.0ML	31 Jan 2015 12:54
13	5	R_0472.D	1.	BLK	BLK	31 Jan 2015 13:21
14	2	R_0473.D	1.	DFTPP SV-2557	ISTD#SV-2462	31 Jan 2015 13:44
15	2	R_0474.D	1.	DFTPP SV-2557	ISTD#SV-2462	31 Jan 2015 13:58
16	3	R_0475.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	31 Jan 2015 14:14
17	13	R_0476.D	1.	PREP BLK PS1 1-28 /SV-2564	PB#012815PS1 30G/1.0ML	31 Jan 2015 14:40
18	14	R_0477.D	1.	LCS1 PS1 1-28 /SV-2565	PB#012815PS1 30G/1.0ML	31 Jan 2015 15:07
19	15	R_0478.D	1.	LCS2 PS1 1-28 /SV-2565	PB#012815PS1 30G/1.0ML	31 Jan 2015 15:33
20	16	R_0479.D	1.	15-1081 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 15:59
21	17	R_0480.D	1.	15-1082 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 16:25
22	18	R_0481.D	1.	15-1083 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 16:51
23	19	R_0482.D	1.	15-1084 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 17:18
24	20	R_0483.D	1.	15-1085 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 17:44
25	21	R_0484.D	1.	15-1086 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 18:10
26	22	R_0485.D	1.	15-1086MS D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 18:36
27	22	R_0486.D	1.	15-1086MSD D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 19:02
28	23	R_0487.D	1.	15-1087 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 19:28
29	24	R_0488.D	1.	15-1088 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 19:55
30	25	R_0489.D	1.	15-1089 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 20:21
31	26	R_0490.D	1.	15-1090 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 20:47
32	27	R_0491.D	1.	15-1091 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 21:13
33	28	R_0492.D	1.	15-1092 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 21:39

Injection Log

Directory: C:\HPCHEM\1\DATA\013115

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
34	29	R_0493.D	1.	15-1093 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 22:05
35	30	R_0494.D	1.	15-1094 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 22:32
36	31	R_0495.D	1.	15-1095 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 22:58
37	32	R_0496.D	1.	15-1096 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 23:24
38	33	R_0497.D	1.	15-1097 D PS1 1-28	PB#012815PS1 30G/1.0ML	31 Jan 2015 23:50
39	34	R_0498.D	1.	15-1098 D PS1 1-28	PB#012815PS1 30G/1.0ML	1 Feb 2015 00:16
40	35	R_0499.D	1.	15-1099 D PS1 1-28	PB#012815PS1 30G/1.0ML	1 Feb 2015 00:42
41	2	R_0500.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 01:06
42	2	R_0501.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 01:19
43	3	R_0502.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	1 Feb 2015 01:36
44	36	R_0503.D	1.	PREP BLK PS2 1-28 /SV-2564	PB#012815PS2 30G/1.0ML	1 Feb 2015 02:02
45	37	R_0504.D	1.	LCS1 PS2 1-28 /SV-2565	PB#012815PS2 30G/1.0ML	1 Feb 2015 02:28
46	38	R_0505.D	1.	LCS2 PS2 1-28 /SV-2565	PB#012815PS2 30G/1.0ML	1 Feb 2015 02:55
47	39	R_0506.D	1.	15-1100 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 03:21
48	40	R_0507.D	1.	15-1101 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 03:47
49	41	R_0508.D	1.	15-1102 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 04:13
50	42	R_0509.D	1.	15-1103 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 04:39
51	43	R_0510.D	1.	15-1104 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 05:05
52	44	R_0511.D	1.	15-1105 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 05:32
53	45	R_0512.D	1.	15-1106 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 05:58
54	46	R_0513.D	1.	15-1107 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 06:24
55	47	R_0514.D	1.	15-1108 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 06:50
56	48	R_0515.D	1.	15-1109 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 07:16
57	49	R_0516.D	1.	15-1110 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 07:43
58	50	R_0517.D	1.	15-1111 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 08:09
59	51	R_0518.D	1.	15-1112 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 08:35
60	52	R_0519.D	1.	15-1113 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 09:01
61	53	R_0520.D	1.	15-1114MSD D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 09:28
62	54	R_0521.D	1.	15-1114MS D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 09:54
63	55	R_0522.D	1.	15-1114 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 10:20

Injection Log

Directory: C:\HPCHEM\1\DATA\013115

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
64	56	R_0523.D	1.	15-1115 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 10:47
65	57	R_0524.D	1.	15-1116 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 11:13
66	58	R_0525.D	1.	15-1117 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 11:39
67	59	R_0526.D	1.	15-1118 D PS2 1-28	PB#012815PS2 30G/1.0ML	1 Feb 2015 12:05
68	2	R_0527.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 12:29
69	2	R_0528.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 12:42
70	3	R_0529.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	1 Feb 2015 12:59
71	6	R_0530.D	1.	PREP BLK PS3 1-28 /SV-2564	PB#012815PS3 30G/1.0ML	1 Feb 2015 13:25
72	7	R_0531.D	1.	LCS1 PS3 1-28 /SV-2565	PB#012815PS3 30G/1.0ML	1 Feb 2015 13:52
73	8	R_0532.D	1.	LCS2 PS3 1-28 /SV-2565	PB#012815PS3 30G/1.0ML	1 Feb 2015 14:18
74	9	R_0533.D	1.	15-1333 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 14:44
75	10	R_0534.D	1.	15-1333MS D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 15:11
76	11	R_0535.D	1.	15-1333MSD D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 15:37
77	12	R_0536.D	1.	15-1334 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 16:03
78	13	R_0537.D	1.	15-1335 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 16:30
79	14	R_0538.D	1.	15-1336 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 16:56
80	15	R_0539.D	1.	15-1337 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 17:22
81	16	R_0540.D	1.	15-1338 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 17:49
82	17	R_0541.D	1.	15-1339 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 18:15
83	18	R_0542.D	1.	15-1340 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 18:41
84	19	R_0543.D	1.	15-1341 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 19:08
85	20	R_0544.D	1.	15-1342 D PS3 1-28	PB#012815PS3 30G/1.0ML	1 Feb 2015 19:34
86	2	R_0545.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 19:57
87	2	R_0546.D	1.	DFTPP SV-2557	ISTD#SV-2462	1 Feb 2015 20:11
88	3	R_0547.D	1.	40/80 CCV SV-2547	ISTD#SV-2532	1 Feb 2015 20:28
89	21	R_0548.D	1.	PREP BLK PS4 1-28 /SV-2564	PB#012815PS4 30G1.0ML	1 Feb 2015 20:54
90	22	R_0549.D	1.	LCS1 PS4 1-28 /SV-2565	PB#012815PS4 30G1.0ML	1 Feb 2015 21:20
91	23	R_0550.D	1.	LCS2 PS4 1-28 /SV-2565	PB#012815PS4 30G1.0ML	1 Feb 2015 21:47
92	24	R_0551.D	1.	15-1390 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 22:13
93	25	R_0552.D	1.	15-1391 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 22:39
94	26	R_0553.D	1.	15-1392 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 23:06

Injection Log

Directory: C:\HPCHEM\1\DATA\013115

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
95	27	R_0554.D	1.	15-1393 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 23:32
96	28	R_0555.D	1.	15-1394 D PS4 1-28	PB#012815PS4 30G1.0ML	1 Feb 2015 23:58
97	29	R_0556.D	1.	15-1395 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 00:25
98	30	R_0557.D	1.	15-1396 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 00:51
99	31	R_0558.D	1.	15-1397 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 01:17
100	32	R_0559.D	1.	15-1398 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 01:44
101	33	R_0560.D	1.	15-1399 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 02:10
102	34	R_0561.D	1.	15-1399MS D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 02:36
103	35	R_0562.D	1.	15-1399MSD D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 03:02
104	36	R_0563.D	1.	15-1400 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 03:28
105	37	R_0564.D	1.	15-1561 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 03:55
106	38	R_0565.D	1.	15-1562 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 04:21
107	39	R_0566.D	1.	15-1563 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 04:47
108	40	R_0567.D	1.	15-1564 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 05:13
109	41	R_0568.D	1.	15-1565 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 05:39
110	42	R_0569.D	1.	15-1566 D PS4 1-28	PB#012815PS4 30G1.0ML	2 Feb 2015 06:05

Starting sequence Thu Jan 29 15:59:08 2015

Instrument Name: 5973i
 Sequence File: C:\MSDCHEM\1\sequence\012915.s
 Comment:
 Operator: AJG
 Data Path: C:\MSDCHEM\1\DATA\012915\
 Method Path: C:\MSDCHEM\1\METHODS\

2015-216

PSW/LVT

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	1	N_0242	DFTPP	DFTPP SV-2557
	MPS Tray: Tray1,VT98			MPS Injector: Rear
2) Sample	1	N_0243	DFTPP	DFTPP SV-2557
	MPS Tray: Tray1,VT98			MPS Injector: Rear
3) Sample	2	N_0244	JT5_X	2.5/5.0 CCV /SV-2557
	MPS Tray: Tray1,VT98			MPS Injector: Rear
4) Sample	3	N_0245	JT5_X	PREP BLK PW1 1-28 /SV-2552
	MPS Tray: Tray1,VT98			MPS Injector: Rear
5) Sample	4	N_0246	JT5_X	LCS1 PW1 1-28 /SV-2555
	MPS Tray: Tray1,VT98			MPS Injector: Rear
6) Sample	5	N_0247	JT5_X	LCS2 PW1 1-28 /SV-2555
	MPS Tray: Tray1,VT98			MPS Injector: Rear
7) Sample	6	N_0248	JT5_X	15-1402 D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
8) Sample	7	N_0249	JT5_X	15-1403 D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
9) Sample	8	N_0250	JT5_X	15-1404 D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
10) Sample	9	N_0251	JT5_X	15-1405 D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
11) Sample	10	N_0252	JT5_X	15-1406 D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
12) Sample	11	N_0253	JT5_X	15-1407 D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
13) Sample	12	N_0254	JT5_X	15-1408 D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
14) Sample	13	N_0255	JT5_X	15-1408MS D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
15) Sample	14	N_0256	JT5_X	15-1408MSD D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear
16) Sample	15	N_0257	JT5_X	15-1409 D PW1 1-28
	MPS Tray: Tray1,VT98			MPS Injector: Rear

Sequence completed Thu Jan 29 22:17:15 2015

C:\MSDCHEM\1\DATA\012915\2015 Jan 29 1559 Quality Log.LOG
 C:\MSDCHEM\1\DATA\012915\2015 Jan 29 1559 Sequence Log .LOG

Starting sequence Fri Jan 30 15:44:30 2015

Instrument Name: 5973i
Sequence File: C:\msdchem\1\sequence\012915.s
Comment:
Operator: AJG
Data Path: C:\MSDCHEM\1\DATA\012915\
Method Path: C:\MSDCHEM\1\METHODS\

2015-216
PSW/LBT

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	21	N_0266	JT5_X	15-1567 D PW1 1-28
MPS Tray:	Tray1,	VT98		MPS Injector: Rear
2) Sample	22	N_0267	JT5_X	15-1568 D PW1 1-28
MPS Tray:	Tray1,	VT98		MPS Injector: Rear
3) Sample	23	N_0268	JT5_X	15-1569 D PW1 1-28
MPS Tray:	Tray1,	VT98		MPS Injector: Rear
4) Sample	24	N_0269	JT5_X	15-1570 D PW1 1-28
MPS Tray:	Tray1,	VT98		MPS Injector: Rear
5) Sample	25	N_0270	JT5_X	15-1571 D PW1 1-28
MPS Tray:	Tray1,	VT98		MPS Injector: Rear

Sequence completed Fri Jan 30 17:45:52 2015

C:\MSDCHEM\1\DATA\012915\2015 Jan 30 1544 Quality Log.LOG
C:\MSDCHEM\1\DATA\012915\2015 Jan 30 1544 Sequence Log .LOG

8270 SVOC
Initial Calibration Data

- Tune
- Initial Calibration Summary
- Initial Calibration Quant
Reports
- Initial Calibration
Verification Summary



Section 2

8270 SIM Calibration Curve Evaluation Summary

ENVision Instrument 6890N Calibration File Name 111814LV.M

Method 8000 Quality Control Requirement Analysis

Per Method 8000 all CCC's (Full List Analysis) should be less than 30%. Does this curve satisfy those requirements? yes

<u>Compound</u>	<u>% RSD Observed</u>
-----------------	-----------------------

Naphthalene	19.86
2-Methylnaphthalene	19.69
1-Methylnaphthalene	19.65
Acenaphthylene	18.32
Acenaphthene	13.89
Fluorene	19.85
Anthracene	10.78
Phenanthrene	18.79
Fluoranthene	15.07
Pyrene	15.63
Benzo(a) anthracene	12.23
Chrysene	16.72
Benzo(b) fluoranthene	19.55
Benzo(k) fluoranthene	15.48
Benzo(a) pyrene	9.73
Indeno(1,2,3-cd)pyrene	9.12
Dibenz(a,h) anthracene	7.38
Benzo(g,h,i) perylene	13.25

Per Method 8270 are SPCC's above minimum requirements? (Y)

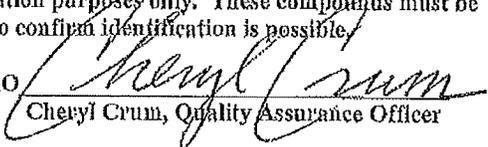
Special Considerations:

All compounds with a %RSD greater than 15% evaluated utilizing alternative statistical models outlined in method 8000 (Linear model evaluation, Quadratic model evaluation-requires minimum of 6 standards). Graphs for compounds utilizing linear and quadratic methods are enclosed with this calibration curve.

Curve evaluated with an INITIAL CALBRATION VERIFICATION standard immediately following the calibration curve. The ICV shall pass Continuing Calibration Verification requirements. The percent drift acceptable limits observed in method 8000/8270 is +/- 30% for CCC's. If a subset analysis is being performed (eg. PNA, PNA-Sim) all compounds are considered CCC's.

Any compound with %RSD greater than 20% and does not satisfy passing requirements for linear and quadratic evaluation is used for identification purposes only. These compounds must be observed at their respective reporting limits to confirm identification is possible.

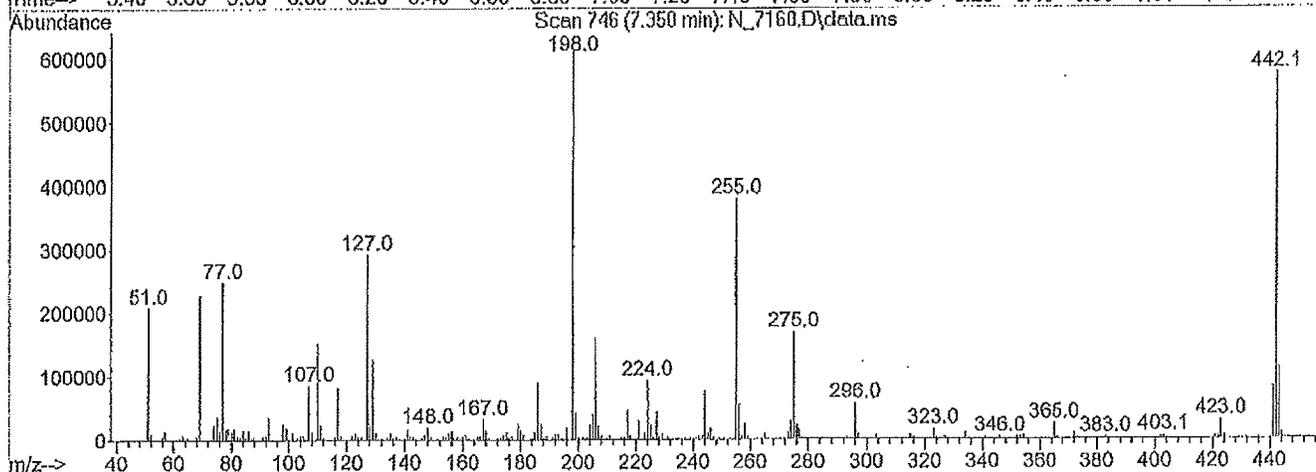
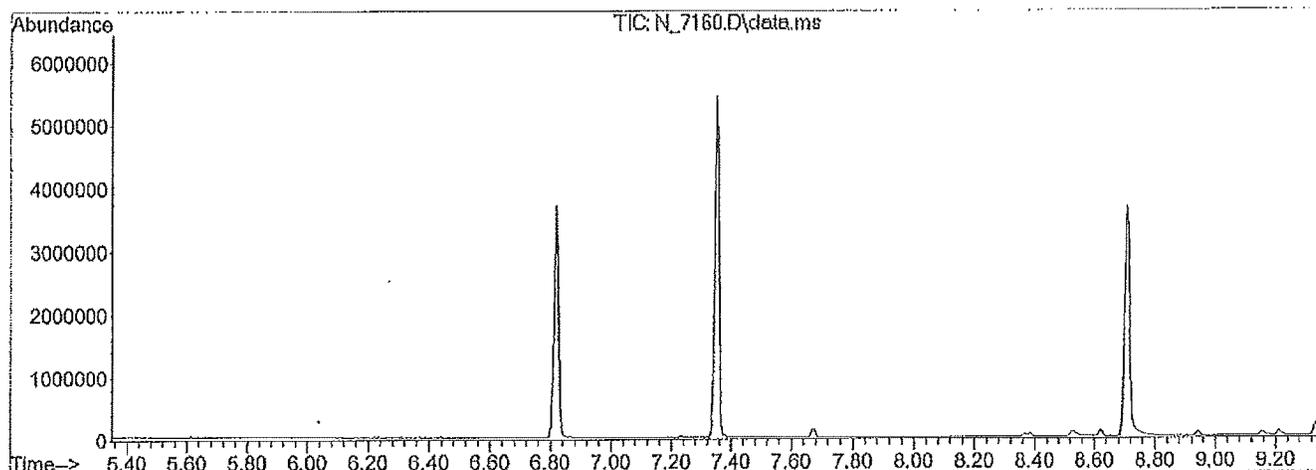
Calibration Curve Certified By ENVision QAO


Cheryl Crum, Quality Assurance Officer

Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7160.D
 Acq On : 18 Nov 2014 1:46 pm
 Operator : AJG
 Sample : DFTPP SV-2516
 Misc : ISTD# SV-2520
 ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\111814LV.M
 Title :
 Last Update : Wed Nov 19 09:20:15 2014



Spectrum Information: Scan 746

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.1	208064	PASS
68	69	0.00	2	1.9	4290	PASS
69	198	0.00	100	37.3	227584	PASS
70	69	0.00	2	0.5	1246	PASS
127	198	40	60	47.9	292608	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	610816	PASS
199	198	5	9	6.8	41328	PASS
275	198	10	30	27.6	168640	PASS
365	198	1	100	4.0	24232	PASS
441	443	0.01	100	72.9	81960	PASS
442	198	40	100	94.2	575104	PASS
443	442	17	24	19.5	112376	PASS

Response Factor Report 5973i

Method Path : C:\msdchem\1\METHODS\
 Method File : 111814LV.M
 Title :
 Last Update : Wed Nov 19 09:20:15 2014
 Response Via : Initial Calibration

Calibration Files

2.5 =N_7161.D 5.0 =N_7168.D 0.1 =N_7164.D 0.2 =N_7165.D 0.5 =N_7166.D 1.0 =N_7167.D 0.

Compound	2.5	5.0	0.1	0.2	0.5	1.0	0.05	0.02	Avg	%RSI
1) I Naphthalene-d8	-----ISTD-----									
2) S Nitrobenzene-d...	0.391	0.361	0.359	0.387	0.370	0.360	0.384	0.380	0.374	3.45
3) T Naphthalene	1.214	1.158	1.990	1.723	1.295	1.249	1.417	1.469	1.440	19.86
4) t 2-Methylnaphth...	1.158	1.290	1.999	1.507	1.227	1.180	1.426	1.330	1.390	19.69
5) t 1-Methylnaphth...	1.138	1.067	1.577	1.781	1.194	1.137	1.573	1.538	1.376	19.65
6) S 2-Fluorobiphen...	0.608	0.606	0.596	0.640	0.588	0.611	0.658	0.619	0.616	3.73
7) T Acenaphthylene	1.096	1.001	1.520	1.389	1.023	1.006	1.497	1.352	1.236	18.32
8) I Acenaphthene-d8	-----ISTD-----									
9) T Acenaphthene	1.324	1.299	1.609	1.572	1.591	1.443	1.803	1.927	1.571	13.89
10) Fluorene	1.716	1.682	2.229	2.721	1.927	1.819	2.399	2.710	2.150	19.85
11) I Phenathrene-d10	-----ISTD-----									
12) Phenanthrene	1.121	1.091	1.918	1.520	1.462	1.263	1.482	1.552	1.426	18.79
13) Anthracene	0.990	1.000	1.324	1.231	1.021	1.080	1.143	1.058	1.106	10.78
14) Fluoranthene	1.739	1.611	2.134	2.194	1.714	1.666	2.349	1.734	1.893	15.07
15) Pyrene	1.764	1.654	2.478	2.232	1.730	1.699	1.766	1.842	1.895	15.63
16) S p-Terphenyl-d1...	1.125	0.979	0.974	1.000	0.904	1.031	1.197	1.152	1.045	9.72
17) Benzo(a)Anthra...	1.758	1.551	1.779	2.014	1.648	1.666	1.851	2.238	1.813	12.23
18) I Chrysene-d12	-----ISTD-----									
19) T Chrysene	1.058	1.086	1.754	1.463	1.277	1.247	1.392	1.395	1.334	16.72
20) Benzo(b)Fluora...	1.019	1.010	1.691	1.248	1.022	1.091	1.495	1.185	1.220	19.55
21) Benzo(k)Fluora...	0.949	1.112	1.273	1.290	1.047	1.101	1.375	1.511	1.207	15.48
22) Benzo(a)Pyrene	0.833	0.862	1.019	0.903	0.851	0.937	1.006	1.085	0.937	9.73
23) I Perylene-d12	-----ISTD-----									
24) Indeno(1,2,3-c...	1.367	1.482	1.676	1.632	1.378	1.401	1.580	1.712	1.528	9.12
25) Dibenz(ah)Anth...	0.994	1.099	1.188	1.160	0.983	1.137	1.068	1.188	1.102	7.38
26) Benzo(ghi)Pery...	1.251	1.318	1.667	1.553	1.259	1.378	1.536	1.771	1.467	13.25

(#) = Out of Range

111814LV.M Thu Nov 20 09:05:55 2014 BWL

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7169.D
 Acq On : 18 Nov 2014 5:32 pm
 Operator : AJG
 Sample : ICV 2.5/5.0 SV-2529 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 19 09:22:25 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8	1.000	1.000	0.0	125	0.00
2 S	Nitrobenzene-d5 (SURR)	0.374	0.435	-16.3	139	0.00
3 T	Naphthalene	1.440	1.363	5.3	141	0.00
4 t	2-Methylnaphthalene	1.390	1.285	7.6	139	0.00
5 t	1-Methylnaphthalene	1.376	1.250	9.2	138	0.00
6 S	2-Fluorobiphenyl (SURR)	0.616	0.682	-10.7	141	0.00
7 T	Acenaphthylene	1.236	1.143	7.5	131	0.00
8 I	Acenaphthene-d8	1.000	1.000	0.0	132	0.00
9 T	Acenaphthene	1.571	1.331	15.3	132	0.00
10	Fluorene	2.150	1.751	18.6	134	0.00
11 I	Phenathrene-d10	1.000	1.000	0.0	137	0.00
12	Phenanthrene	1.426	1.182	17.1	144	0.00
13	Anthracene	1.106	0.968	12.5	134	0.00
14	Fluoranthene	1.893	1.682	11.1	132	0.00
15	Pyrene	1.895	1.713	9.6	133	0.00
16 S	p-Terphenyl-d14 (SURR)	1.045	1.102	-5.5	134	0.00
17	Benzo(a)Anthracene	1.813	1.610	11.2	125	0.00
18 I	Chrysene-d12	1.000	1.000	0.0	119	0.00
19 T	Chrysene	1.334	1.129	15.4	127	0.00
20	Benzo(b)Fluoranthene	1.220	1.075	11.9	126	0.00
21	Benzo(k)Fluoranthene	1.207	1.052	12.8	132	0.00
22	Benzo(a)Pyrene	0.937	0.905	3.4	130	0.00
23 I	Perylene-d12	1.000	1.000	0.0	130	0.00
24	Indeno(1,2,3-cd)Pyrene	1.528	1.408	7.9	134	0.00
25	Dibenz(ah)Anthracene	1.102	1.053	4.4	138	0.00
26	Benzo(ghi)Perylene	1.467	1.278	12.9	133	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

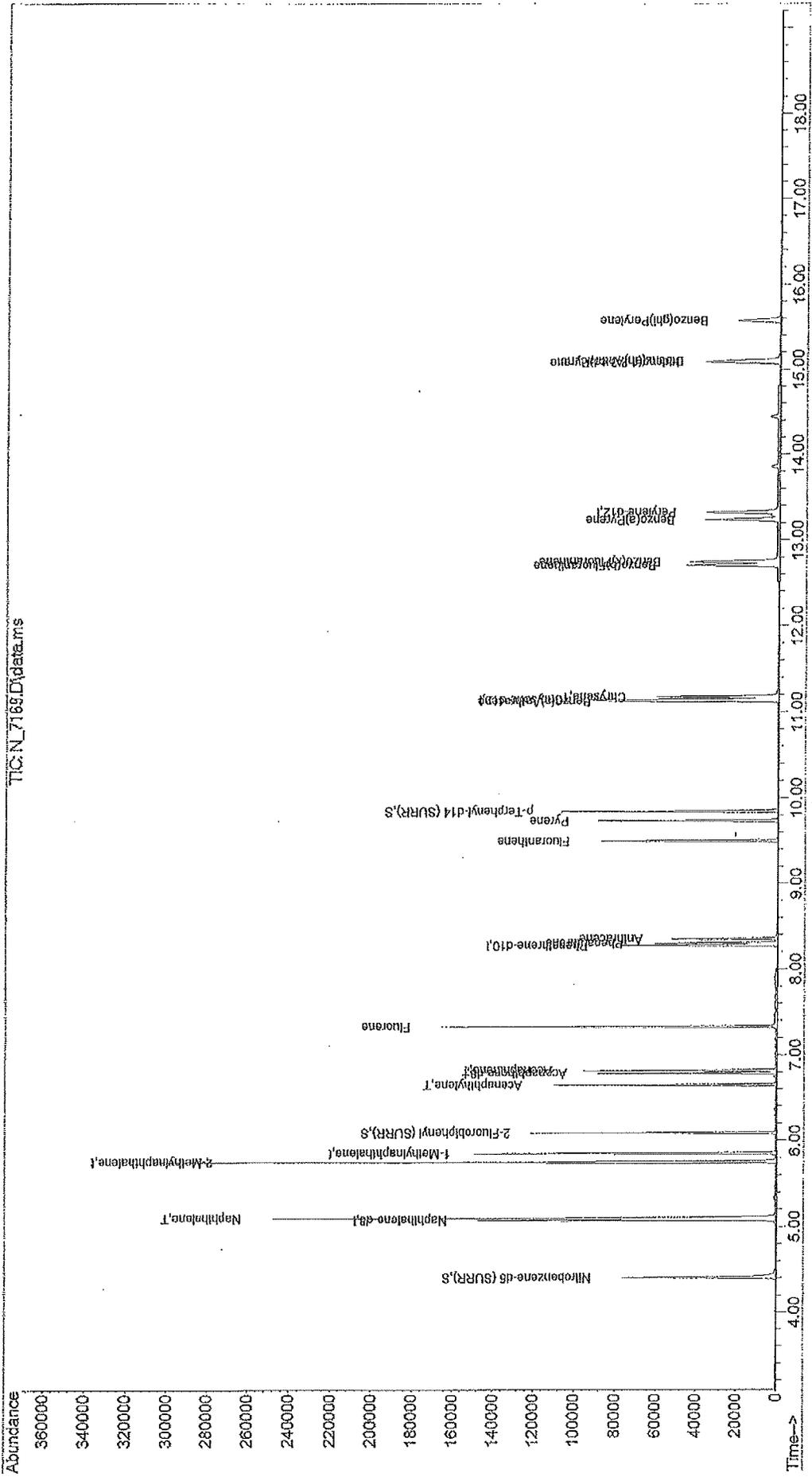
Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7169.D
 Acq On : 18 Nov 2014 5:32 pm
 Operator : AJG
 Sample : ICV 2.5/5.0 SV-2529 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 19 09:22:25 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.075	136	1112645m	4.00	ug/mL	0.00
8) Acenaphthene-d8	6.787	162	629381	4.00	ug/mL	0.00
11) Phenathrene-d10	8.276	188	658484	4.00	ug/mL	0.00
18) Chrysene-d12	11.141	240	865462m	4.00	ug/mL	0.00
23) Perylene-d12	13.327	264	535102	4.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.405	82	604865	5.81	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	116.20%
6) 2-Fluorobiphenyl (SURR)	6.090	172	948489	5.54	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	110.80%
16) p-Terphenyl-d14 (SURR)	9.846	244	907126	5.27	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	105.40%
Target Compounds						
						Qvalue
3) Naphthalene	5.096	128	1895685	4.73	ug/L	100
4) 2-Methylnaphthalene	5.750	142	1787441	4.62	ug/L	99
5) 1-Methylnaphthalene	5.851	142	868924	2.27	ug/L	99
7) Acenaphthylene	6.649	152	794616	2.31	ug/L #	100
9) Acenaphthene	6.820	153	523691	2.12	ug/L	100
10) Fluorene	7.332	166	688669	2.04	ug/L	100
12) Phenanthrene	8.300	178	486443m	2.07	ug/L	
13) Anthracene	8.352	178	398393	2.19	ug/L	100
14) Fluoranthene	9.499	202	692382	2.22	ug/L	99
15) Pyrene	9.736	202	705062	2.26	ug/L	99
17) Benzo(a)Anthracene	11.125	228	662778	2.22	ug/L	99
19) Chrysene	11.175	228	610935	2.12	ug/L	99
20) Benzo(b)Fluoranthene	12.708	252	581655m	2.20	ug/L	
21) Benzo(k)Fluoranthene	12.748	252	568854	2.18	ug/L	100
22) Benzo(a)Pyrene	13.238	252	489659	2.42	ug/L	98
24) Indeno(1,2,3-cd)Pyrene	15.086	276	471054	2.30	ug/L	100
25) Dibenz(ah)Anthracene	15.098	278	352128	2.39	ug/L	100
26) Benzo(ghi)Perylene	15.573	276	427458	2.18	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7169.D
 Acq On : 18 Nov 2014 5:32 pm
 Operator : AJG
 Sample : ICY 2.5/5.0 SV-2529 CURVE
 Misc : ISID# SV-2520
 ALS Vial : 10 Sample Multiplier: 1
 Quant Time: Nov 19 09:22:25 2014
 Quant Method : C:\msdchem\1\METHODS\111814\LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration



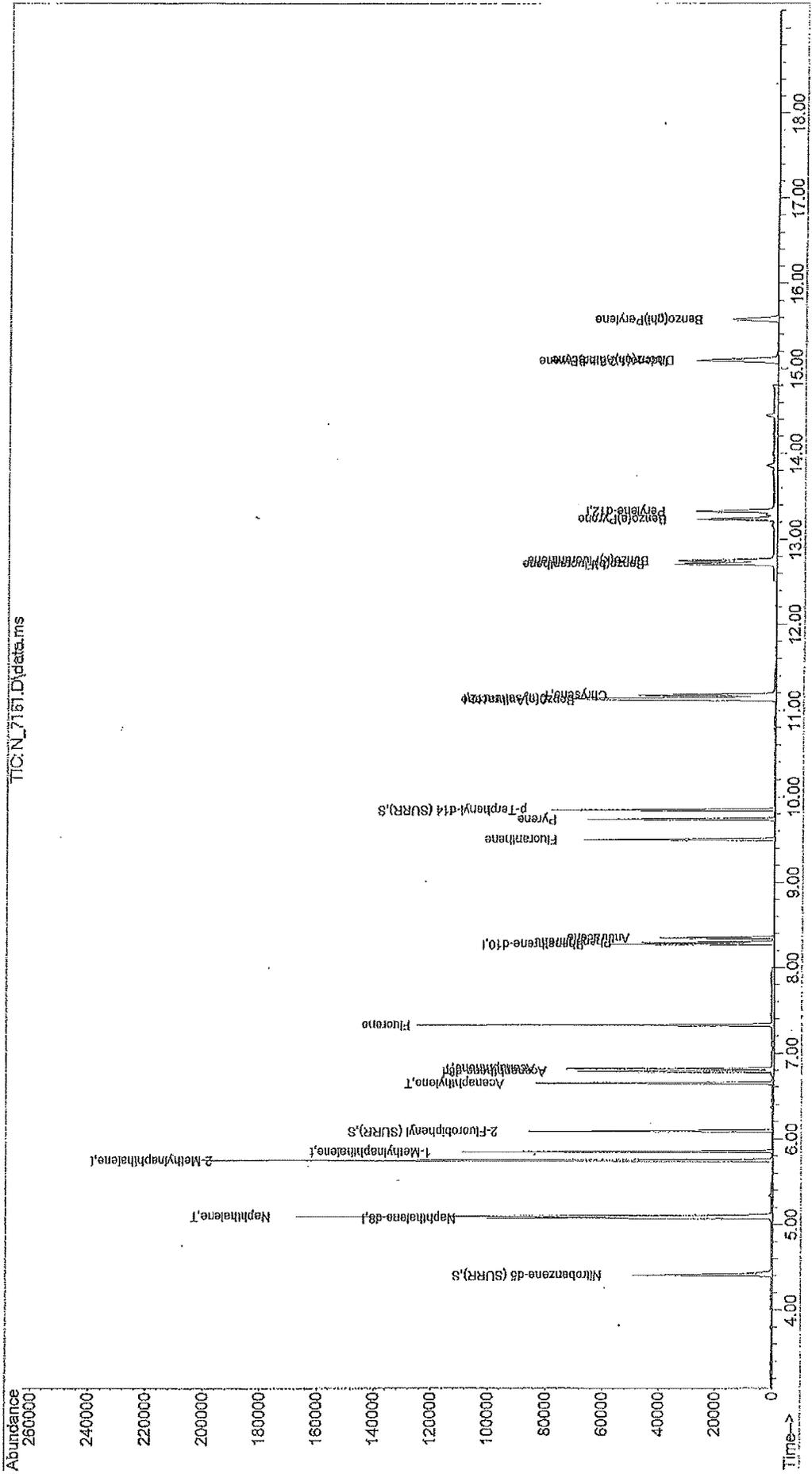
Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7161.D
 Acq On : 18 Nov 2014 2:02 pm
 Operator : AJG
 Sample : 2.5/5.0 SV-2521 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 08:23:13 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:22:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8	5.077	136	887479	4.00	ug/mL	0.00	
8) Acenaphthene-d8	6.788	162	478464	4.00	ug/mL	0.00	
11) Phenanthrene-d10	8.278	188	480959	4.00	ug/mL	0.00	
18) Chrysene-d12	11.142	240	725570	4.00	ug/mL	0.00	
23) Perylene-d12	13.331	264	411483	4.00	ug/mL	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (SURR)	4.409	82	433841	6.44	ug/L	0.00	
Spiked Amount	5.000	Range 0 - 150	Recovery	=	128.80%		
6) 2-Fluorobiphenyl (SURR)	6.091	172	674977	5.77	ug/L	0.00	
Spiked Amount	5.000	Range 0 - 150	Recovery	=	115.40%		
16) p-Terphenyl-d14 (SURR)	9.848	244	676100	6.33	ug/L	0.00	
Spiked Amount	5.000	Range 0 - 150	Recovery	=	126.60%		
Target Compounds							
							Qvalue
3) Naphthalene	5.098	128	1347093	5.46	ug/L		100
4) 2-Methylnaphthalene	5.751	142	1284165	5.61	ug/L #		58
5) 1-Methylnaphthalene	5.852	142	631181	2.34	ug/L		100
7) Acenaphthylene	6.650	152	607877	2.75	ug/L #		100
9) Acenaphthene	6.820	153	395989	2.06	ug/L		100
10) Fluorene	7.333	166	513219	2.30	ug/L		100
12) Phenanthrene	8.302	178	336947	2.24	ug/L		95
13) Anthracene	8.353	178	297588	2.21	ug/L		100
14) Fluoranthene	9.500	202	522691	2.48	ug/L		100
15) Pyrene	9.737	202	530155	2.35	ug/L		100
17) Benzo(a)Anthracene	11.126	228	528316	2.38	ug/L		96
19) Chrysene	11.178	228	479848	1.90	ug/L		97
20) Benzo(b)Fluoranthene	12.710	252	461958m	2.02	ug/L		
21) Benzo(k)Fluoranthene	12.752	252	430129	1.79	ug/L		98
22) Benzo(a)Pyrene	13.242	252	377826	1.94	ug/L #		90
24) Indeno(1,2,3-cd)Pyrene	15.092	276	351446	2.15	ug/L		100
25) Dibenz(ah)Anthracene	15.102	278	255624	2.00	ug/L		100
26) Benzo(ghi)Perylene	15.576	276	321733	2.01	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7161.D
 Acq On : 18 Nov 2014 2:02 pm
 Operator : AJG
 Sample : 2.5/5.0 SV-2521 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 2 Sample Multiplier: 1
 Quant Time: Nov 19 08:23:13 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 Last Update : Wed Nov 19 08:22:39 2014
 Response via : Initial Calibration



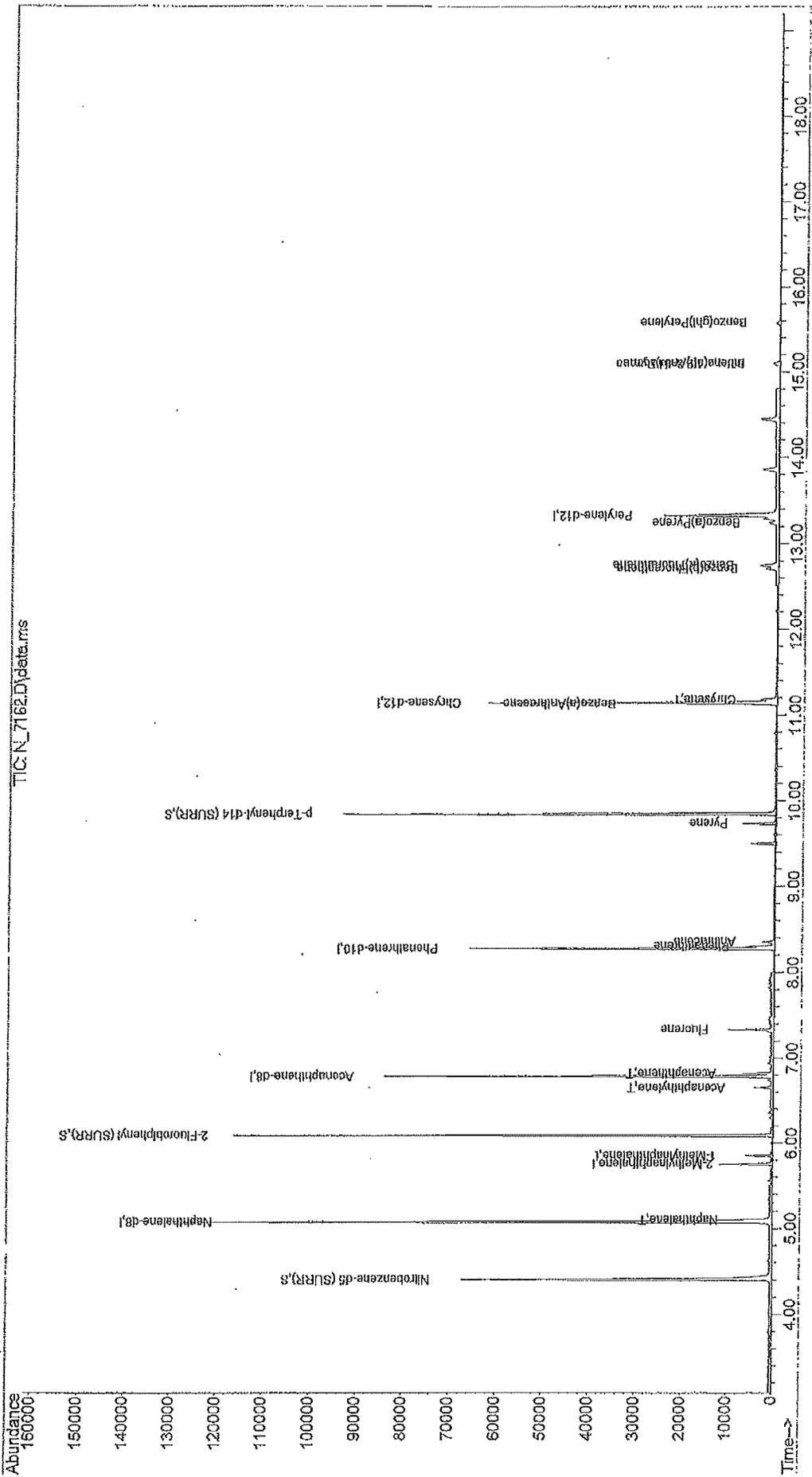
Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7162.D
 Acq On : 18 Nov 2014 2:27 pm
 Operator : AJG
 Sample : 0.022 SV-2522 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 09:16:40 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:48:48 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.077	136	1182541	4.00	ug/mL	0.00
8) Acenaphthene-d8	6.787	162	598100	4.00	ug/mL	0.00
11) Phenathrene-d10	8.278	188	559043	4.00	ug/mL	0.00
18) Chrysene-d12	11.142	240	706801	4.00	ug/mL	0.00
23) Perylene-d12	13.330	264	380262	4.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.408	82	561541	5.18	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	103.60%
6) 2-Fluorobiphenyl (SURR)	6.091	172	914616	5.13	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	102.60%
16) p-Terphenyl-d14 (SURR)	9.847	244	804855	5.68	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	113.60%
Target Compounds						
3) Naphthalene	5.104	128	9556	0.03	ug/L	Qvalue
4) 2-Methylnaphthalene	5.757	142	8652	0.02	ug/L	
5) 1-Methylnaphthalene	5.854	142	10004	0.02	ug/L	
7) Acenaphthylene	6.651	152	8793	0.02	ug/L	
9) Acenaphthene	6.822	153	6338	0.02	ug/L	
10) Fluorene	7.336	166	8915	0.03	ug/L	
12) Phenanthrene	8.308	178	4337	0.02	ug/L	
13) Anthracene	8.358	178	3254	0.02	ug/L	
15) Pyrene	9.742	202	5664	0.02	ug/L	
17) Benzo(a)Anthracene	11.131	228	6882	0.03	ug/L	
19) Chrysene	11.184	228	5424	0.02	ug/L	
20) Benzo(b)Fluoranthene	12.716	252	4605	0.02	ug/L	
21) Benzo(k)Fluoranthene	12.754	252	5873	0.03	ug/L	
22) Benzo(a)Pyrene	13.247	252	4216	0.03	ug/L	
24) Indeno(1,2,3-cd)Pyrene	15.102	276	3580	0.02	ug/L	
25) Dibenz(ah)Anthracene	15.106	278	2485	0.02	ug/L	
26) Benzo(ghi)Perylene	15.586	276	3703	0.03	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\DATA\111814\
 Data File : N_7162.D
 Acq On : 18 Nov 2014 2:27 pm
 Operator : AJG
 Sample : 0.022 SV-2522 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 3 Sample Multiplier: 1
 Quant Time: Nov 19 09:16:40 2014
 Quant Method : C:\msdchem\METHODS\111814\LV.M
 Quant Title :
 Last Update : Wed Nov 19 08:48:48 2014
 Response via : Initial Calibration



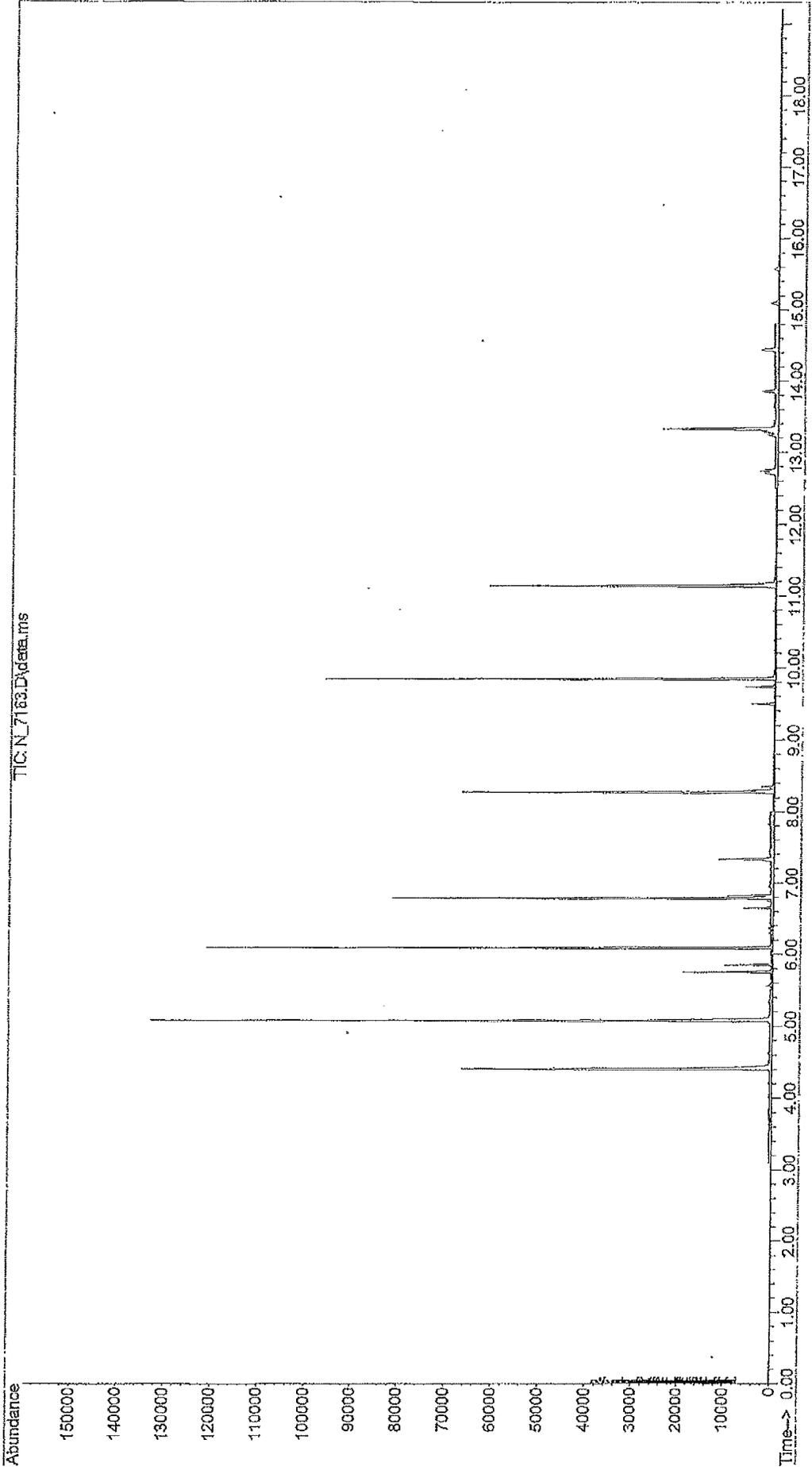
Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7163.D
 Acq On : 18 Nov 2014 2:53 pm
 Operator : AJG
 Sample : 0.05 SV-2523 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 08:48:38 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:44:55 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8	5.077	136	1164643	4.00	ug/mL	0.00	
8) Acenaphthene-d8	6.787	162	590737	4.00	ug/mL	0.00	
11) Phenanthrene-d10	8.277	188	556950	4.00	ug/mL	0.00	
18) Chrysene-d12	11.142	240	701854	4.00	ug/mL	0.00	
23) Perylene-d12	13.329	264	379123	4.00	ug/mL	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (SURR)	4.409	82	559173	5.39	ug/L	0.00	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	107.80%	
6) 2-Fluorobiphenyl (SURR)	6.091	172	957366	5.62	ug/L	0.00	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	112.40%	
16) p-Terphenyl-d14 (SURR)	9.846	244	833466	6.14	ug/L	0.00	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	122.80%	
Target Compounds							
3) Naphthalene	5.102	128	18625	0.05	ug/L		Qvalue
4) 2-Methylnaphthalene	5.757	142	20754	0.06	ug/L		
5) 1-Methylnaphthalene	5.854	142	22896	0.06	ug/L		
7) Acenaphthylene	6.649	152	21791	0.06	ug/L		
9) Acenaphthene	6.822	153	13312	0.05	ug/L		
10) Fluorene	7.334	166	17713	0.06	ug/L		
12) Phenanthrene	8.306	178	10316	0.05	ug/L		
13) Anthracene	8.354	178	7955	0.05	ug/L		
14) Fluoranthene	9.501	202	16355	0.06	ug/L		
15) Pyrene	9.741	202	12292	0.05	ug/L		
17) Benzo(a)Anthracene	11.128	228	12886	0.05	ug/L		
19) Chrysene	11.178	228	12214	0.05	ug/L		
20) Benzo(b)Fluoranthene	12.708	252	13118	0.06	ug/L		
21) Benzo(k)Fluoranthene	12.750	252	12059	0.06	ug/L		
22) Benzo(a)Pyrene	13.242	252	8827	0.05	ug/L		
24) Indeno(1,2,3-cd)Pyrene	15.093	276	7487	0.05	ug/L		
25) Dibenz(ah)Anthracene	15.103	278	5060	0.05	ug/L		
26) Benzo(ghi)Perylene	15.575	276	7277	0.05	ug/L		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\111814\
Data File : NL7163.D
Acq On : 18 Nov 2014 2:53 pm
Operator : AJG
Sample : 0.05 SV-2523 CURVE
Misc : ISID# SV-2520
ALS Vial : 4 Sample Multiplier: 1
Quant Time: Nov 19 08:48:38 2014
Quant Method : C:\msdchem\1\METHODS\111814LV.M
Quant Title :
QLast Update : Wed Nov 19 08:44:55 2014
Response via : Initial Calibration



TIC: N_7163.D\data.ms

Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7164.D
 Acq On : 18 Nov 2014 3:18 pm
 Operator : AJG
 Sample : 0.1/0.2 SV-2524 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 5 Sample Multiplier: 1

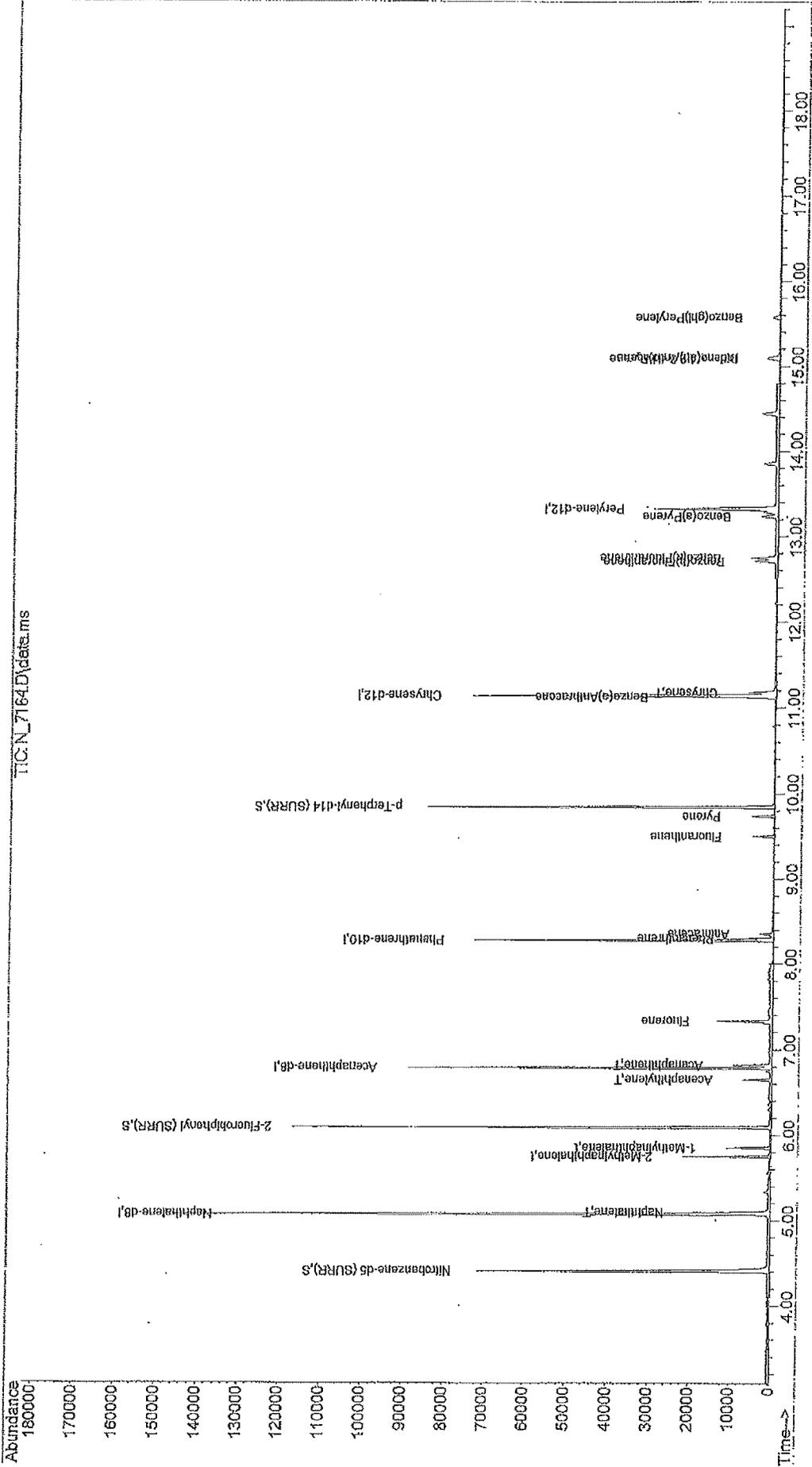
Quant Time: Nov 19 09:10:39 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:41:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.076	136	1274282	4.00	ug/mL	0.00
8) Acenaphthene-d8	6.787	162	641225	4.00	ug/mL	0.00
11) Phenanthrene-d10	8.278	188	603948	4.00	ug/mL	0.00
18) Chrysene-d12	11.141	240	824792	4.00	ug/mL	0.00
23) Perylene-d12	13.328	264	456057	4.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.406	82	572282	5.18	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	103.60%
6) 2-Fluorobiphenyl (SURR)	6.090	172	948902	5.19	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	103.80%
16) p-Terphenyl-d14 (SURR)	9.847	244	735525	5.09	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	101.80%
Target Compounds						
3) Naphthalene	5.097	128	126813	0.33	ug/L	Qvalue
4) 2-Methylnaphthalene	5.752	142	127358	0.34	ug/L	
5) 1-Methylnaphthalene	5.852	142	70224	0.17	ug/L	
7) Acenaphthylene	6.650	152	48431	0.14	ug/L	
9) Acenaphthene	6.819	153	25793	0.09	ug/L	
10) Fluorene	7.333	166	55736	0.17	ug/L	
12) Phenanthrene	8.301	178	28957	0.14	ug/L	
13) Anthracene	8.353	178	19994	0.12	ug/L	
14) Fluoranthene	9.499	202	32225	0.12	ug/L	
15) Pyrene	9.736	202	37412	0.13	ug/L	
17) Benzo(a)Anthracene	11.128	228	26861	0.10	ug/L	
19) Chrysene	11.175	228	36159	0.13	ug/L	
20) Benzo(b)Fluoranthene	12.708	252	34865	0.14	ug/L	
21) Benzo(k)Fluoranthene	12.751	252	26250	0.11	ug/L	
22) Benzo(a)Pyrene	13.239	252	21002	0.10	ug/L	
24) Indeno(1,2,3-cd)Pyrene	15.091	276	19106	0.11	ug/L	
25) Dibenzo(ah)Anthracene	15.100	278	13542	0.10	ug/L	
26) Benzo(ghi)Perylene	15.574	276	19010	0.12	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7164.D
 Acq On : 18 Nov 2014 3:18 pm
 Operator : AJG
 Sample : 0.1/0.2 SV-2524 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 09:10:39 2014
 Quant Method : C:\msdchem\1\METHODS\111814\LV.M
 Quant Title :
 Last Update : Wed Nov 19 08:41:51 2014
 Response via : Initial Calibration



TIC: N_7164.D\data.ms

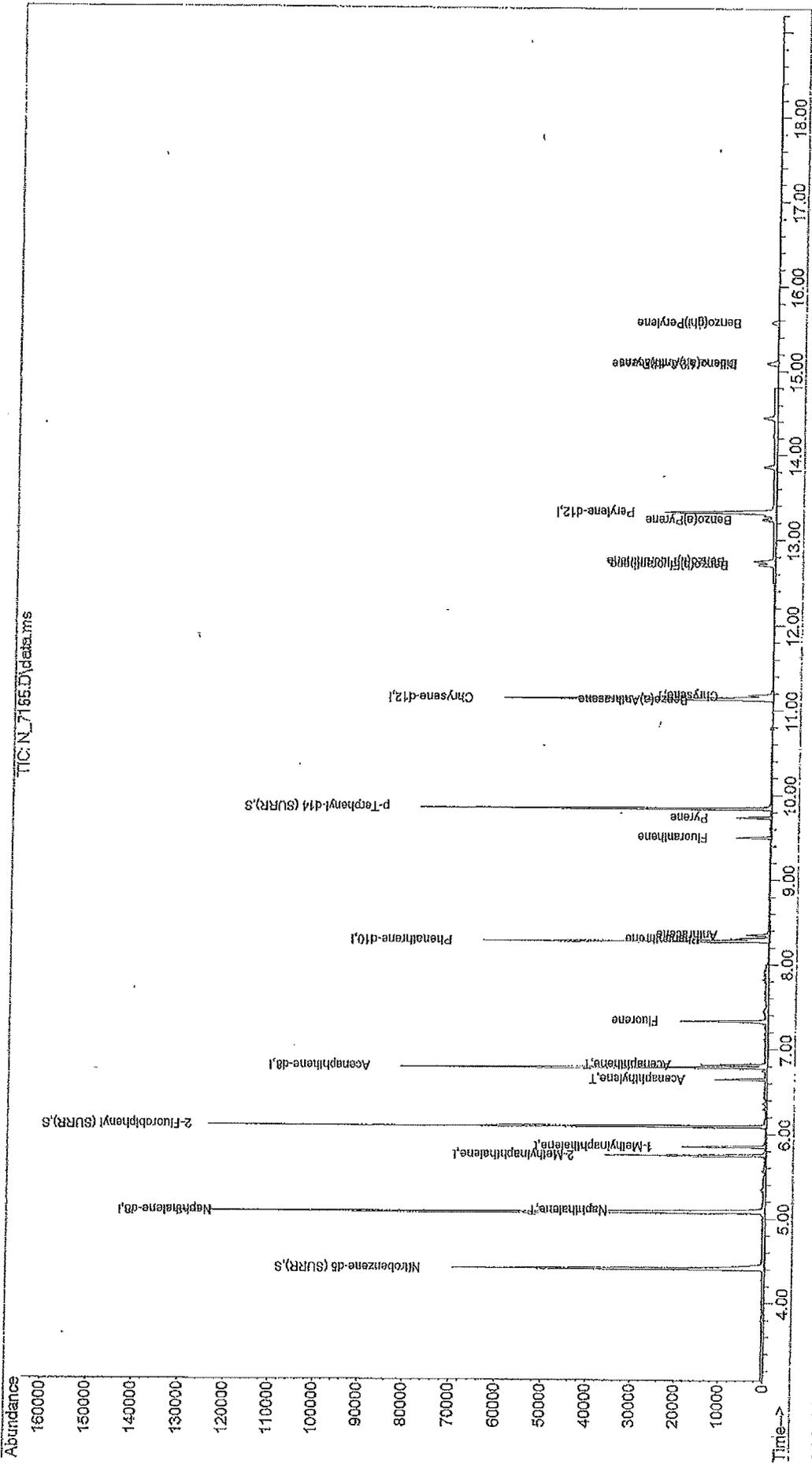
Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7165.D
 Acq On : 18 Nov 2014 3:43 pm
 Operator : AJG
 Sample : 0.2/0.4 SV-2525 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 09:10:59 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:40:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.075	136	1203206m	4.00	ug/mL	0.00
8) Acenaphthene-d8	6.787	162	586692	4.00	ug/mL	0.00
11) Phenanthrene-d10	8.277	188	547892	4.00	ug/mL	0.00
18) Chrysene-d12	11.141	240	683065	4.00	ug/mL	0.00
23) Perylene-d12	13.328	264	378251	4.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.407	82	581524	5.77	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	115.40%
5) 2-Fluorobiphenyl (SURR)	6.091	172	962767	5.73	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	114.60%
16) p-Terphenyl-d14 (SURR)	9.847	244	684637	5.33	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	106.60%
Target Compounds						
3) Naphthalene	5.097	128	207316	0.61	ug/L	100
4) 2-Methylnaphthalene	5.752	142	211268	0.65	ug/L	98
5) 1-Methylnaphthalene	5.852	142	107165	0.29	ug/L	99
7) Acenaphthylene	6.650	152	83553	0.27	ug/L	100
9) Acenaphthene	6.819	153	46100m	0.20	ug/L	
10) Fluorene	7.333	166	79825	0.29	ug/L	99
12) Phenanthrene	8.302	178	61631	0.35	ug/L	69
13) Anthracene	8.354	178	33717	0.22	ug/L	70
14) Fluoranthene	9.500	202	60111	0.25	ug/L	75
15) Pyrene	9.737	202	61142	0.24	ug/L	99
17) Benzo(a)Anthracene	11.125	228	55180	0.22	ug/L	62
19) Chrysene	11.177	228	49976	0.22	ug/L	62
20) Benzo(b)Fluoranthene	12.710	252	42636	0.20	ug/L	64
21) Benzo(k)Fluoranthene	12.749	252	44057	0.21	ug/L	1
22) Benzo(a)Pyrene	13.239	252	30826	0.18	ug/L	70
24) Indeno(1,2,3-cd)Pyrene	15.090	276	30873	0.21	ug/L	100
25) Dibenz(ah)Anthracene	15.099	278	21942	0.19	ug/L	100
26) Benzo(ghi)Perylene	15.574	276	29365	0.21	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\111814\N
 Data File : N_7165.D
 Acq On : 18 Nov 2014 3:43 pm
 Operator : AJG
 Sample : 0.2/0.4 SV-2525 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 6 Sample Multiplier: 1
 Quant Time: Nov 19 09:10:59 2014
 Quant Method : C:\msdchem\1\METHODS\111814\LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:40:36 2014
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7166.D
 Acq On : 18 Nov 2014 4:17 pm
 Operator : AJG
 Sample : 0.5/1.0 SV-2526 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 7 Sample Multiplier: 1

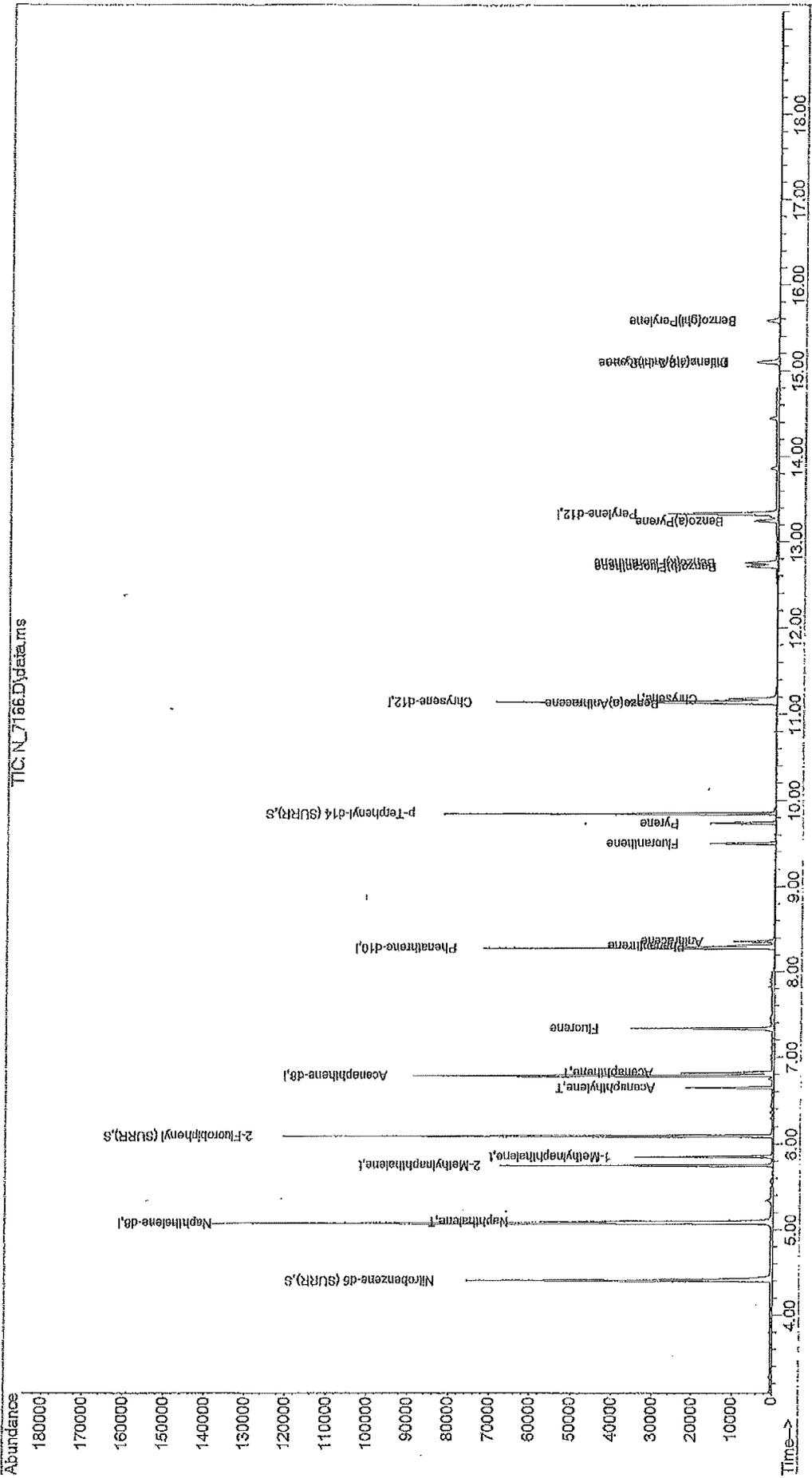
Quant Time: Nov 19 08:39:25 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:38:48 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.076	136	1300609	4.00	ug/mL	0.00
8) Acenaphthene-d8	6.789	162	638895	4.00	ug/mL	0.00
11) Phenathrene-d10	8.280	188	610687	4.00	ug/mL	0.00
18) Chrysene-d12	11.145	240	760008	4.00	ug/mL	0.00
23) Perylene-d12	13.334	264	412509	4.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.405	82	601115	5.71	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	114.20%
6) 2-Fluorobiphenyl (SURR)	6.092	172	955806	5.36	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	107.20%
16) p-Terphenyl-d14 (SURR)	9.850	244	690242	4.87	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	97.40%
Target Compounds						
3) Naphthalene	5.097	128	421155	1.15	ug/L	100
4) 2-Methylnaphthalene	5.752	142	398923	1.16	ug/L	99
5) 1-Methylnaphthalene	5.853	142	194088	0.49	ug/L	99
7) Acenaphthylene	6.651	152	166320	0.50	ug/L	100
9) Acenaphthene	6.821	153	127064	0.50	ug/L	99
10) Fluorene	7.335	166	153869	0.51	ug/L	99
12) Phenanthrene	8.304	178	111584	0.59	ug/L	69
13) Anthracene	8.356	178	77929	0.45	ug/L	70
14) Fluoranthene	9.503	202	130830	0.48	ug/L	100
15) Pyrene	9.740	202	132044	0.46	ug/L	99
17) Benzo(a)Anthracene	11.129	228	125796	0.45	ug/L	99
19) Chrysene	11.178	228	121297m	0.47	ug/L	
20) Benzo(b)Fluoranthene	12.713	252	97093	0.41	ug/L	64
21) Benzo(k)Fluoranthene	12.755	252	99470	0.42	ug/L	79
22) Benzo(a)Pyrene	13.246	252	80878	0.42	ug/L	70
24) Indeno(1,2,3-cd)Pyrene	15.098	276	71062	0.44	ug/L	100
25) Dibenz(ah)Anthracene	15.106	278	50709	0.40	ug/L	100
26) Benzo(ghi)Perylene	15.581	276	64917	0.42	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7166.D
 Acq On : 18 Nov 2014 4:17 pm
 Operator : AJG
 Sample : 0.5/1.0 SV-2526 CURVE
 Misc : ISID# SV-2520
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 08:39:25 2014
 Quant Method : C:\msdchem\1\METHODS\111814\LV.M
 Quant Title :
 Quant Update : Wed Nov 19 08:38:48 2014
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7167.D
 Acq On : 18 Nov 2014 4:42 pm
 Operator : AJG
 Sample : 1.0/2.0 SV-2527 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 8 Sample Multiplier: 1

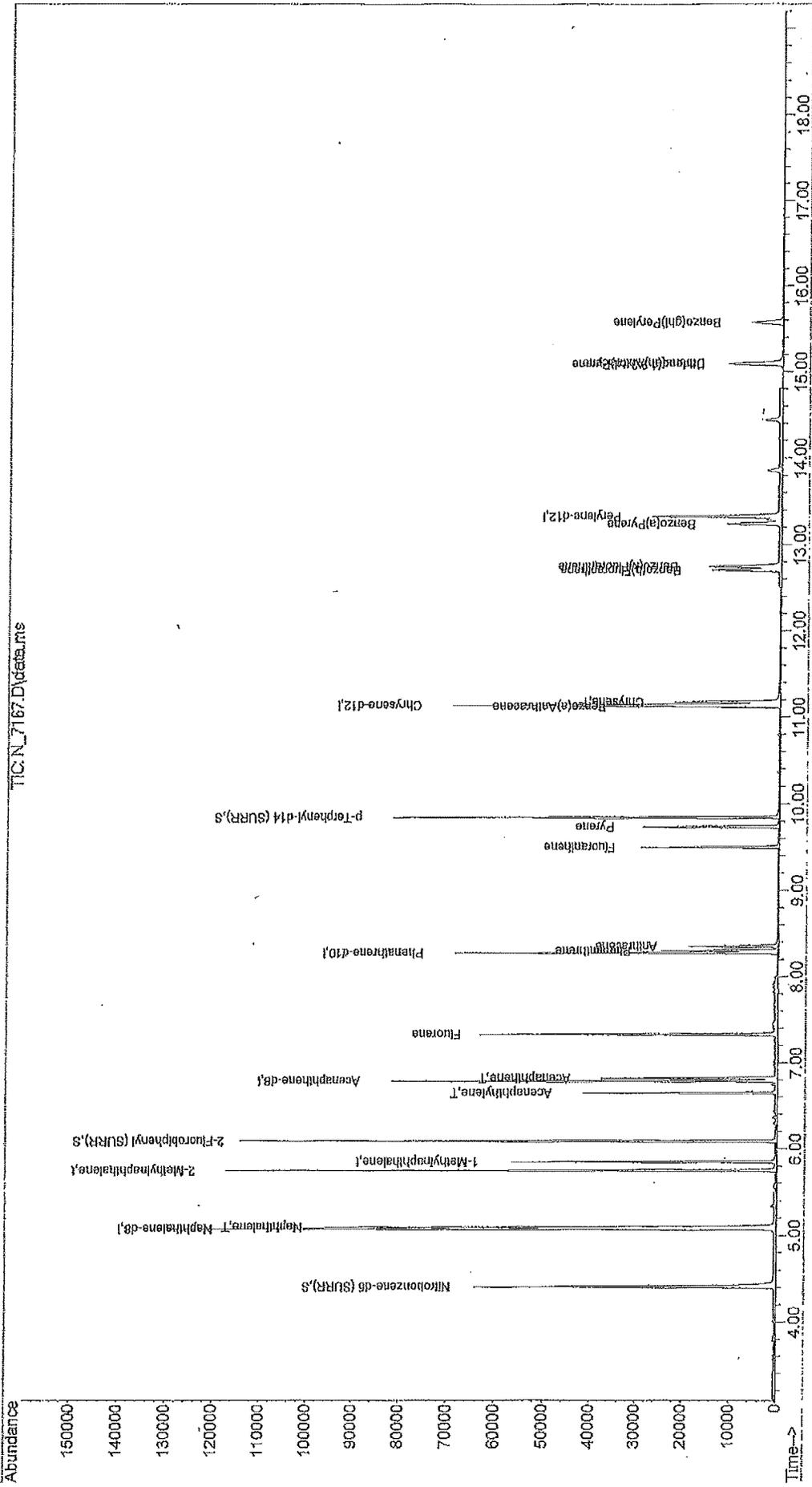
Quant Time: Nov 19 08:38:37 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:25:14 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.077	136	1172314	4.00	ug/mL	0.00
8) Acenaphthene-d8	6.787	162	580315	4.00	ug/mL	0.00
11) Phenanthrene-d10	8.278	188	558492	4.00	ug/mL	0.00
18) Chrysene-d12	11.141	240	743424	4.00	ug/mL	0.00
23) Perylene-d12	13.329	264	407084	4.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.408	82	528252	5.74	ug/L	0.00
Spiked Amount	5.000	Range 0 - 150	Recovery =	114.80%		
6) 2-Fluorobiphenyl (SURR)	6.090	172	895251	5.69	ug/L	0.00
Spiked Amount	5.000	Range 0 - 150	Recovery =	113.80%		
16) p-Terphenyl-d14 (SURR)	9.847	244	720029	5.67	ug/L	0.00
Spiked Amount	5.000	Range 0 - 150	Recovery =	113.40%		
Target Compounds						
3) Naphthalene	5.098	128	732075	2.24	ug/L	Qvalue 100
4) 2-Methylnaphthalene	5.752	142	691680	2.27	ug/L	99
5) 1-Methylnaphthalene	5.852	142	333282	0.93	ug/L	99
7) Acenaphthylene	6.650	152	294915	0.99	ug/L	100
9) Acenaphthene	6.820	153	209338	0.90	ug/L	99
10) Fluorene	7.333	166	263834	0.97	ug/L	99
12) Phenanthrene	8.302	178	176379	1.02	ug/L	99
13) Anthracene	8.353	178	150823	0.96	ug/L	
14) Fluoranthene	9.500	202	232556	0.94	ug/L	100
15) Pyrene	9.737	202	237153	0.91	ug/L	99
17) Benzo(a)Anthracene	11.125	228	232641	0.91	ug/L	98
19) Chrysene	11.176	228	231852	0.92	ug/L	
20) Benzo(b)Fluoranthene	12.708	252	202777	0.87	ug/L	
21) Benzo(k)Fluoranthene	12.749	252	204551	0.86	ug/L	
22) Benzo(a)Pyrene	13.240	252	174065	0.90	ug/L	
24) Indeno(1,2,3-cd)Pyrene	15.089	276	142567	0.89	ug/L	100
25) Dibenz(ah)Anthracene	15.102	278	115673	0.93	ug/L	
26) Benzo(ghi)Perylene	15.575	276	140264	0.90	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\111814V\
 Data File : N_7167.D
 Acq On : 18 Nov 2014 4:42 pm
 Operator : AJG
 Sample : 1.0/2.0 SV-2527 CURVE
 Misc : ISID# SV-2520
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 19 08:38:37 2014
 Quant Method : C:\msdchem\1\METHODS\111814V.M
 Quant Title :
 Last Update : Wed Nov 19 08:25:14 2014
 Response via : Initial Calibration



TIC: N_7167.D\data.ms

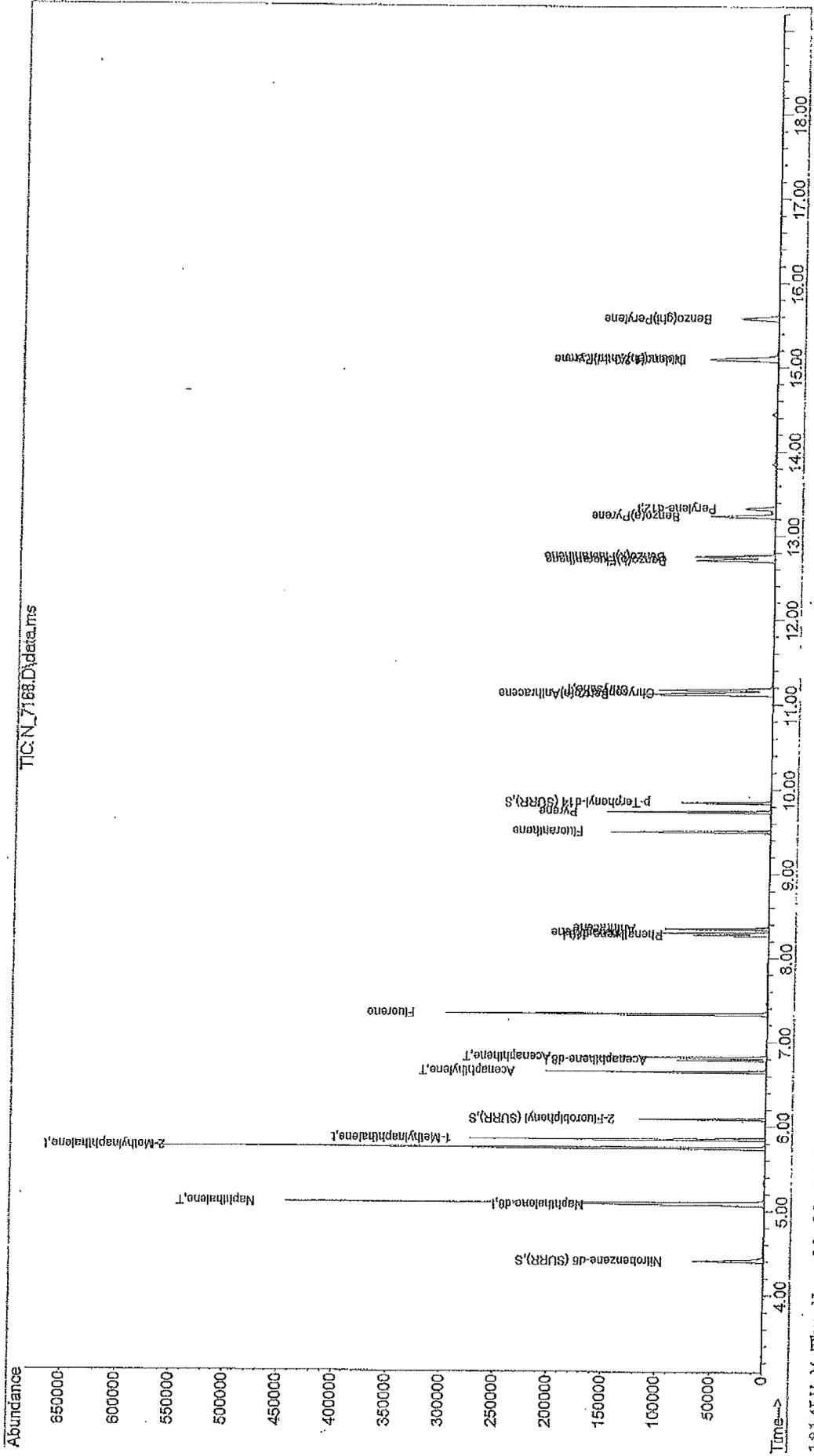
Data Path : C:\msdchem\1\DATA\111814\
 Data File : N_7168.D
 Acq On : 18 Nov 2014 5:07 pm
 Operator : AJG
 Sample : 5.0/10.0 SV-2528 CURVE
 Misc : ISTD# SV-2520
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 19 08:24:51 2014
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:23:28 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.076	136	1201336	4.00	ug/mL	0.00
8) Acenaphthene-d8	6.787	162	600842	4.00	ug/mL	0.00
11) Phenathrene-d10	8.277	188	580766	4.00	ug/mL	0.00
18) Chrysene-d12	11.139	240	769774	4.00	ug/mL	0.00
23) Perylene-d12	13.328	264	437541	4.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.406	82	542508	5.95	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	119.00%
6) 2-Fluorobiphenyl (SURR)	6.090	172	910666	5.75	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	115.00%
16) p-Terphenyl-d14 (SURR)	9.846	244	710800	5.51	ug/L	0.00
Spiked Amount	5.000	Range	0 - 150	Recovery	=	110.20%
Target Compounds						
						Qvalue
3) Naphthalene	5.096	128	3478430	10.42	ug/L	100
4) 2-Methylnaphthalene	5.750	142	3275723	10.59	ug/L	99
5) 1-Methylnaphthalene	5.851	142	1602917	4.40	ug/L	99
7) Acenaphthylene	6.649	152	1503469	5.03	ug/L	100
9) Acenaphthene	6.819	153	975664	4.04	ug/L	100
10) Fluorene	7.332	166	1263432	4.50	ug/L	99
12) Phenanthrene	8.301	178	792340	4.38	ug/L	99
13) Anthracene	8.353	178	725940	4.47	ug/L	100
14) Fluoranthene	9.499	202	1169661	4.59	ug/L	99
15) Pyrene	9.736	202	1200657	4.41	ug/L	99
17) Benzo(a)Anthracene	11.124	228	1126111	4.21	ug/L	98
19) Chrysene	11.175	228	1045182	3.93	ug/L	99
20) Benzo(b)Fluoranthene	12.707	252	971817m	4.00	ug/L	
21) Benzo(k)Fluoranthene	12.749	252	1069854m	4.21	ug/L	
22) Benzo(a)Pyrene	13.238	252	829063	4.03	ug/L	99
24) Indeno(1,2,3-cd)Pyrene	15.087	276	810798	4.68	ug/L	100
25) Dibenz(ah)Anthracene	15.098	276	601075	4.43	ug/L	100
26) Benzo(ghi)Perylene	15.573	276	720806	4.25	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

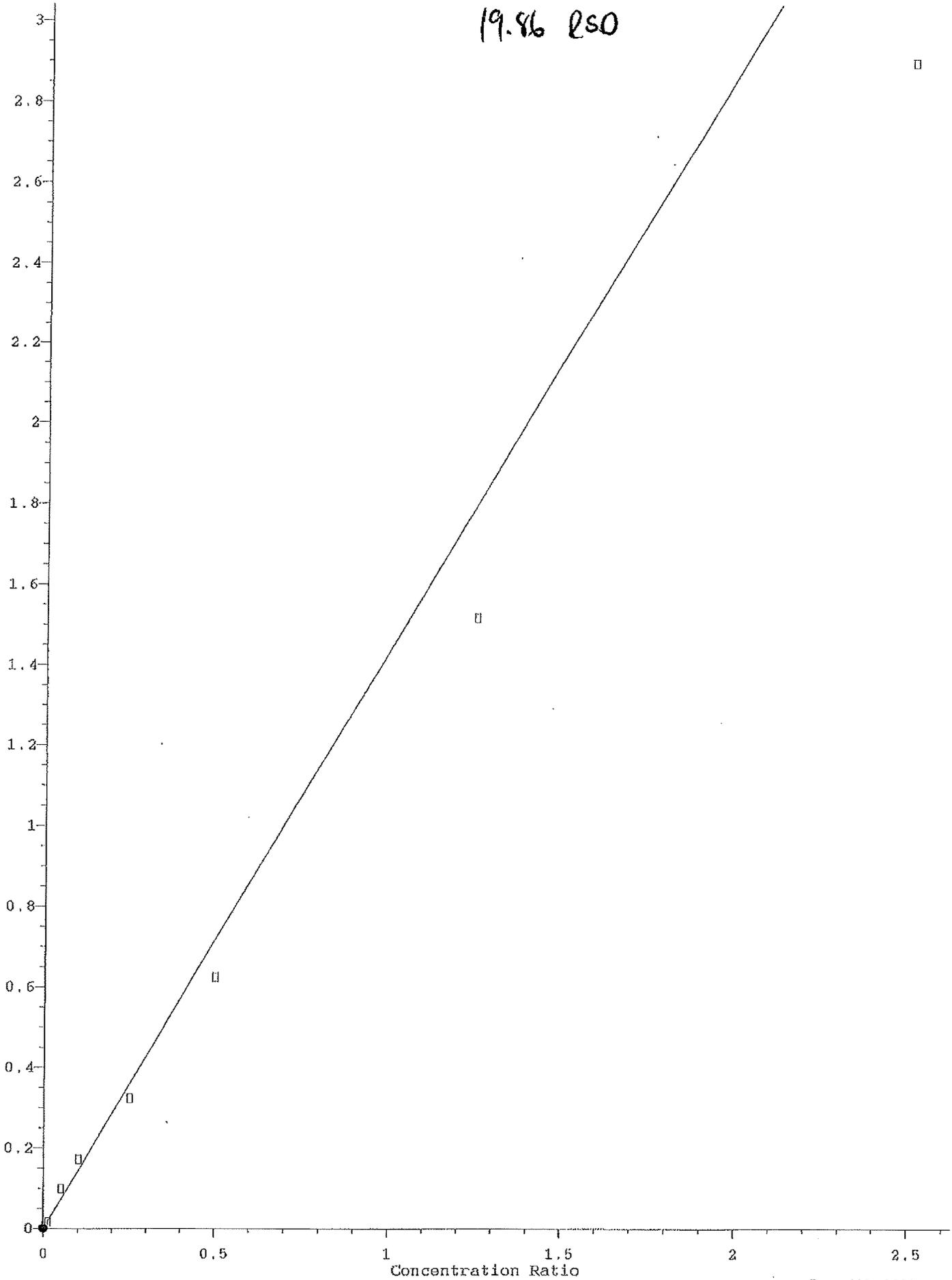
Data Path : C:\msdchem\1\DATA\11814\
 Data File : N_7168.D
 Acq On : 18 Nov 2014 5:07 pm
 Operator : AJG
 Sample : 5.0/10.0 SV-2528 CURVE
 Misc : ISID# SV-2520
 ALS Vial : 9 Sample Multiplier: 1
 Quant Time: Nov 19 08:24:51 2014
 Quant Method : C:\msdchem\1\METHODS\11814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 08:23:28 2014
 Response via : Initial Calibration



Naphthalene

19.86 RSO

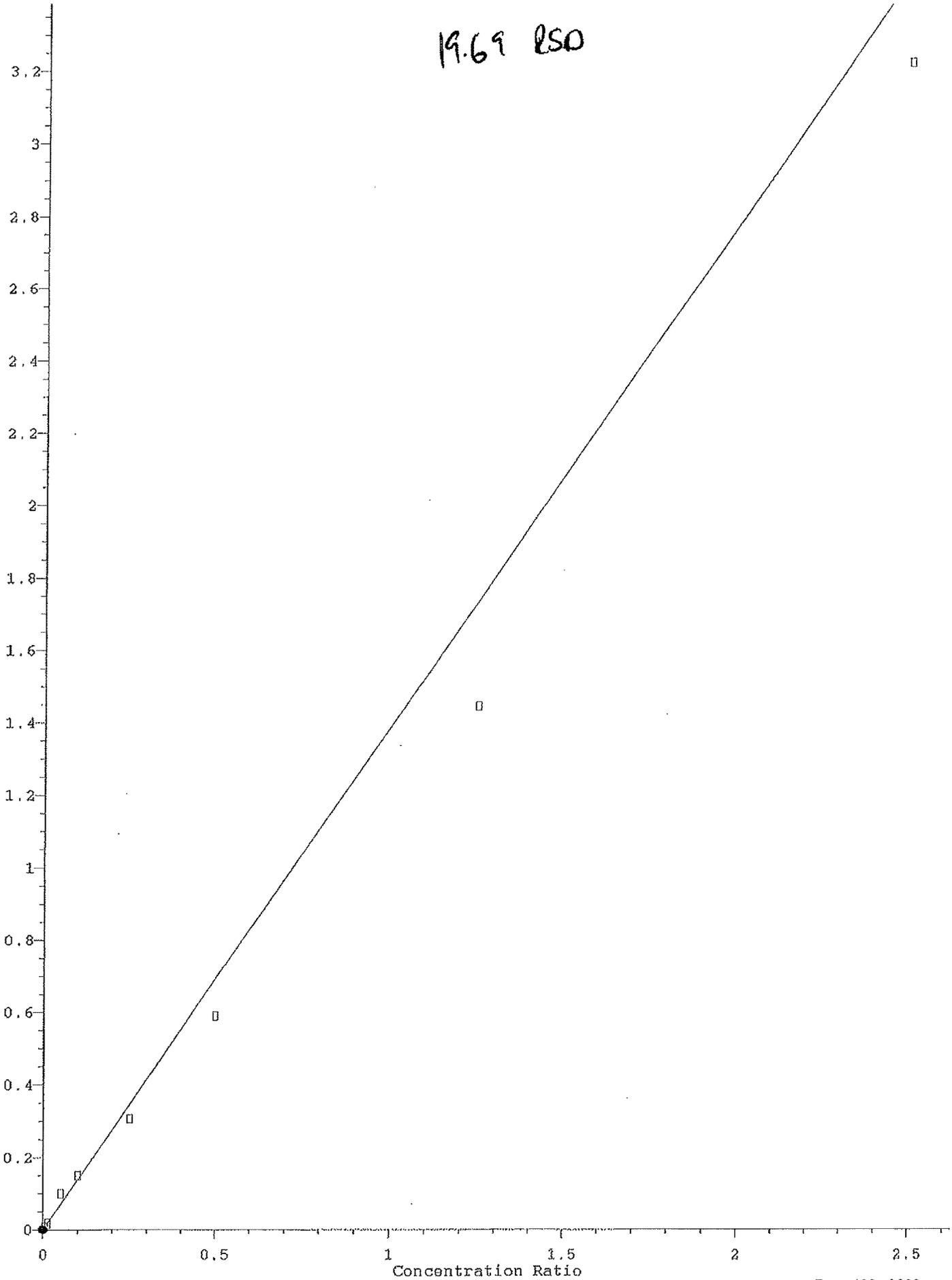
Response Ratio



2-Methylnaphthalene

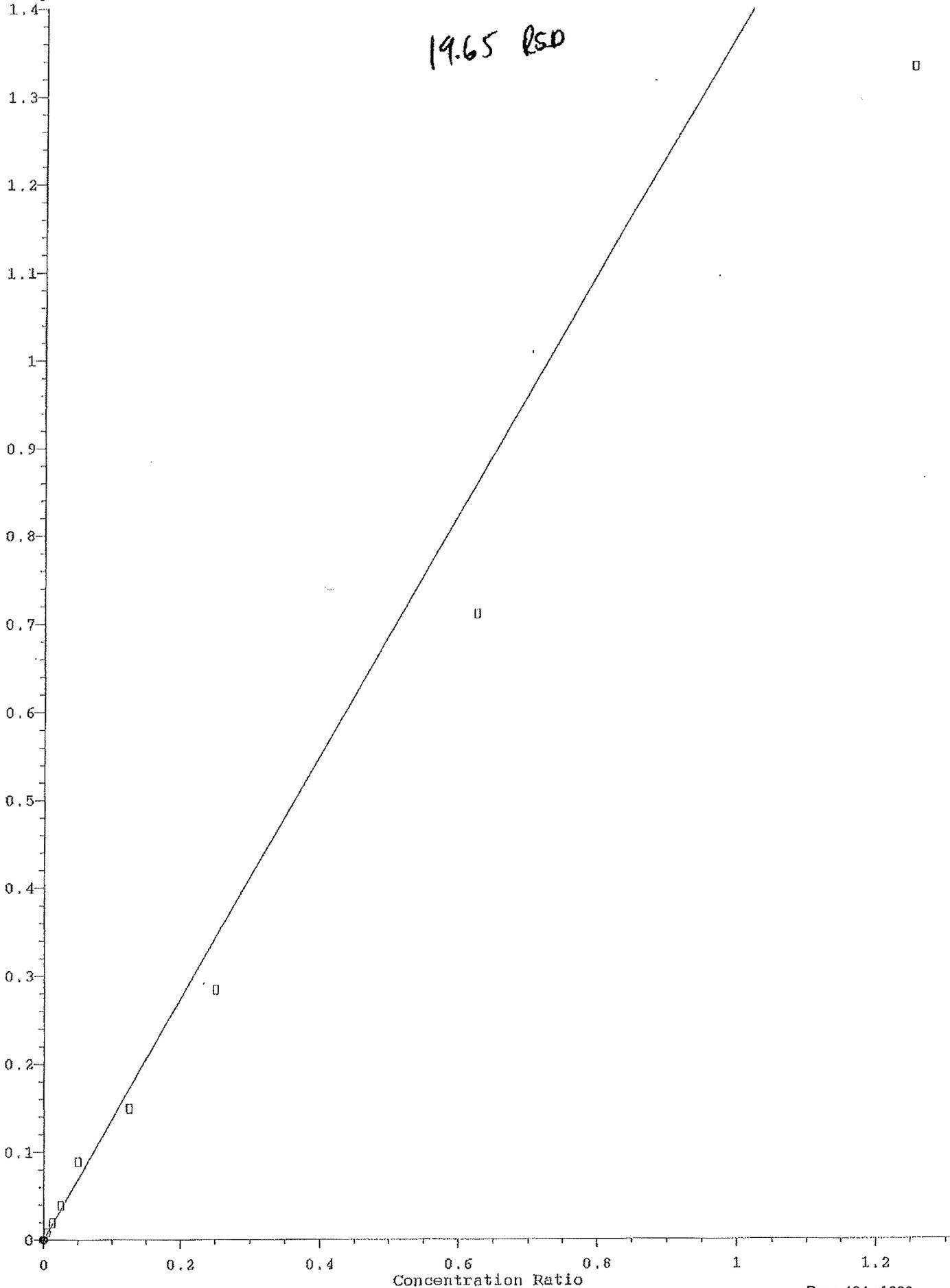
19.69 RSD

Response Ratio



1-Methylnaphthalene

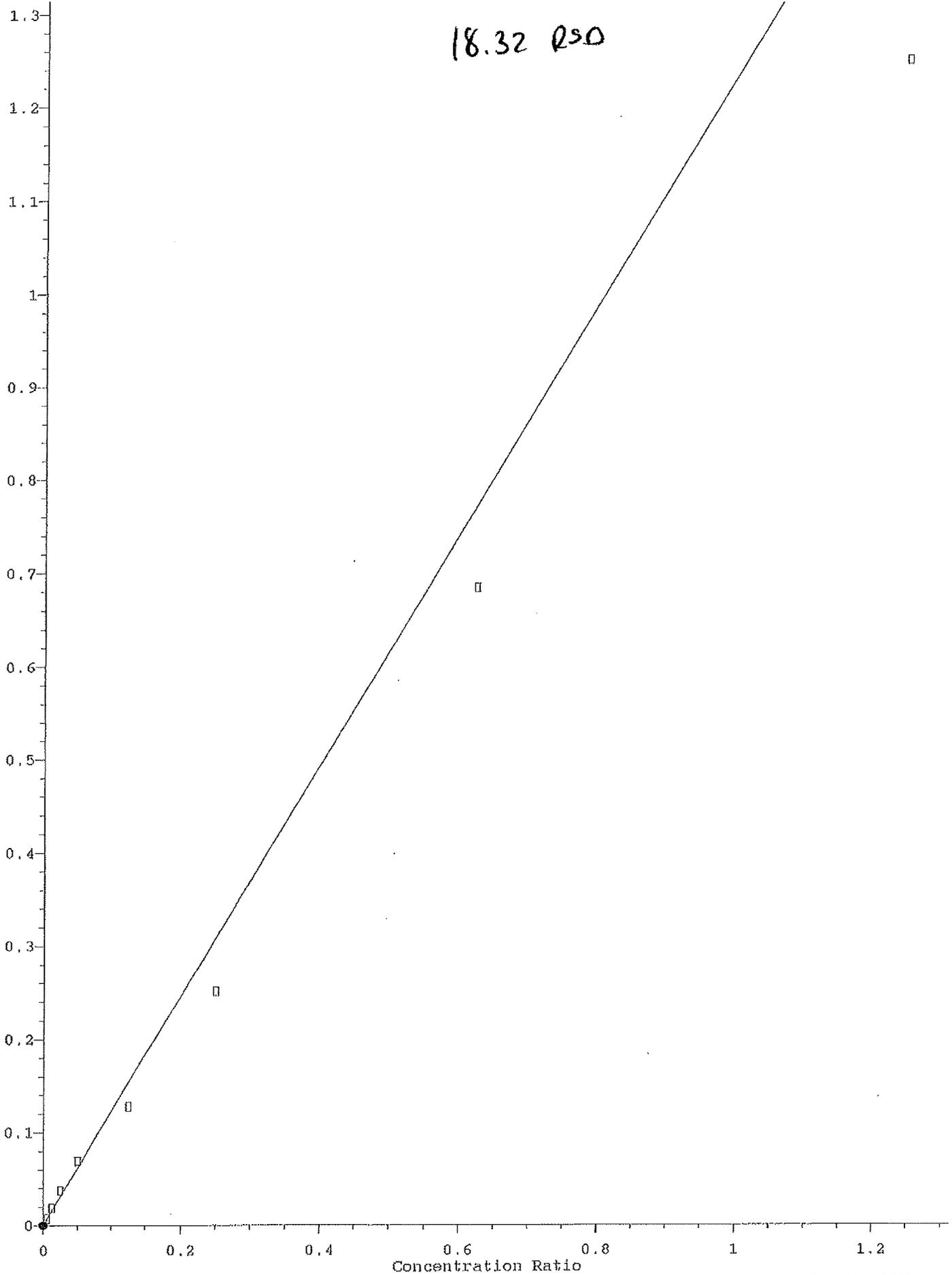
Response Ratio



Acenaphthylene

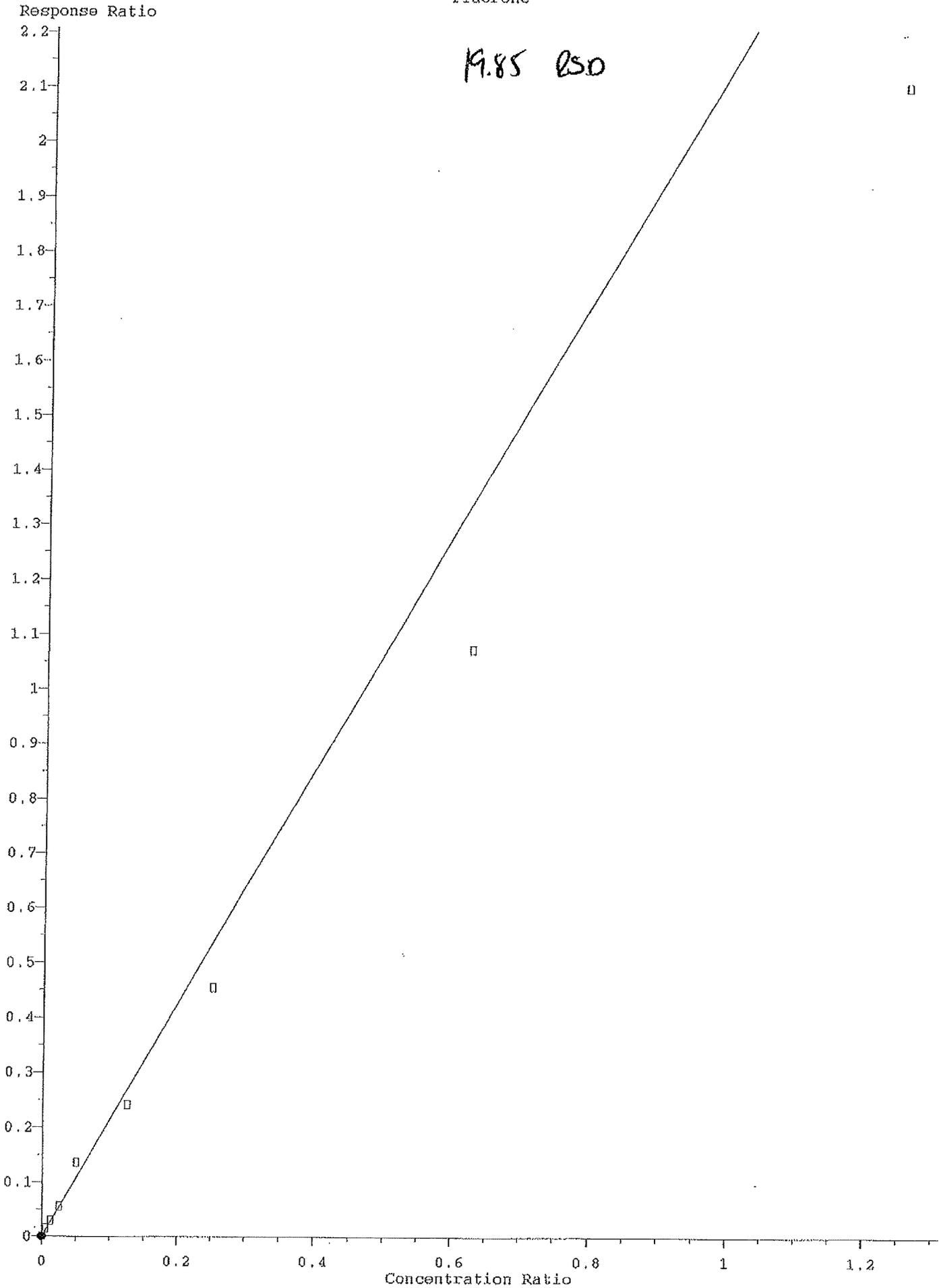
Response Ratio

18.32 RSD



Fluorene

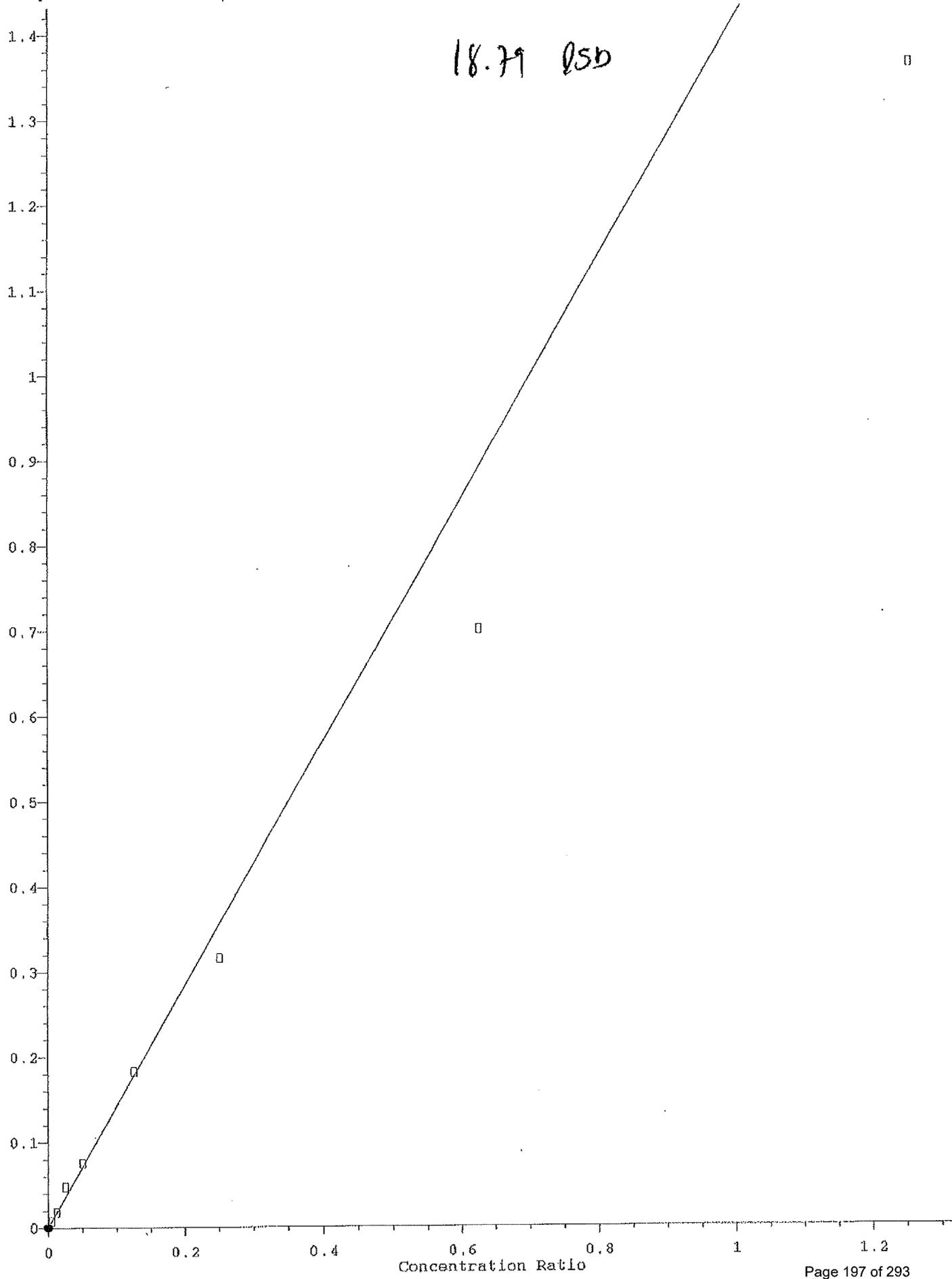
19.85 QSD



Phenanthrene

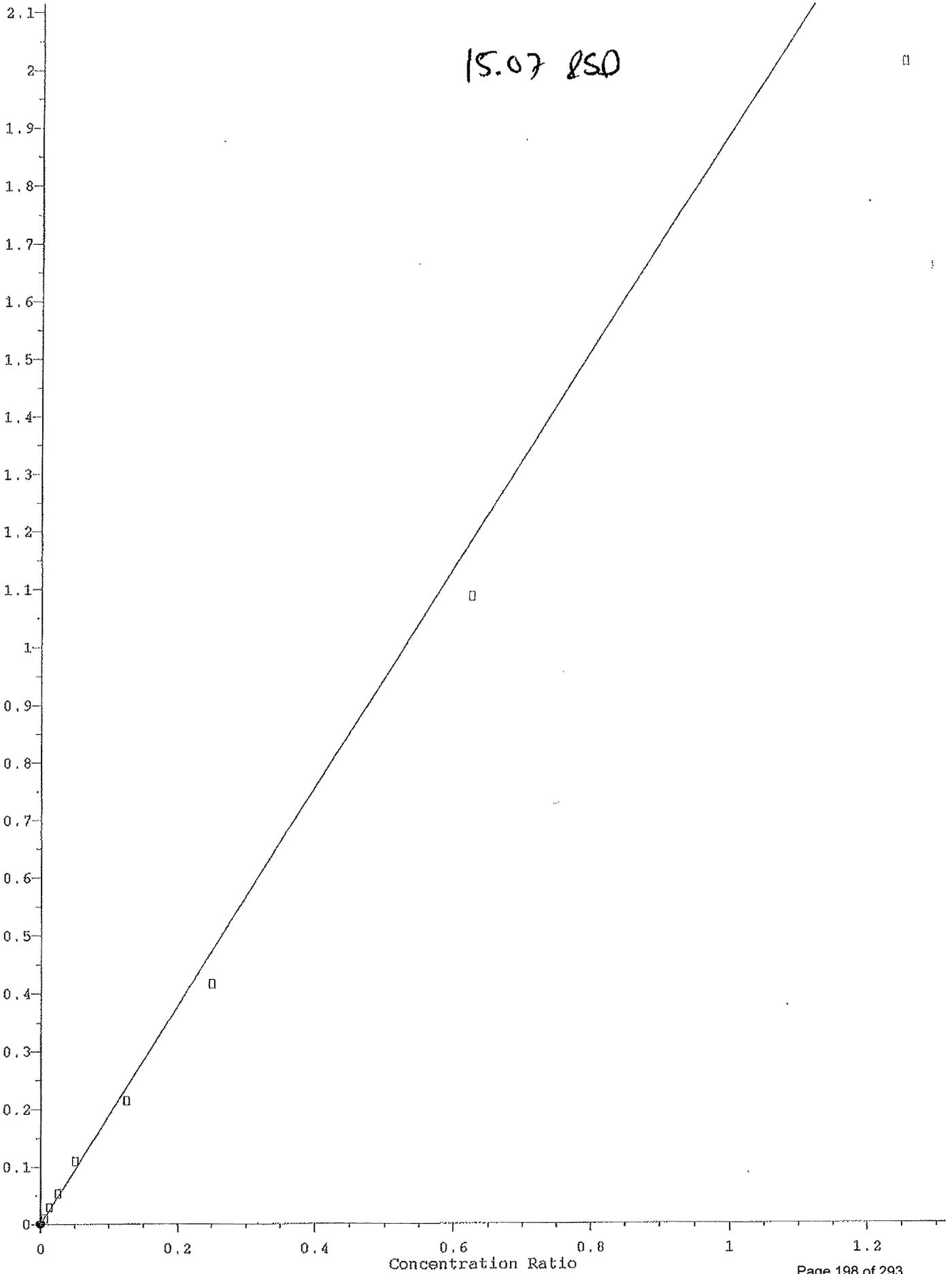
Response Ratio

18.79 QSD



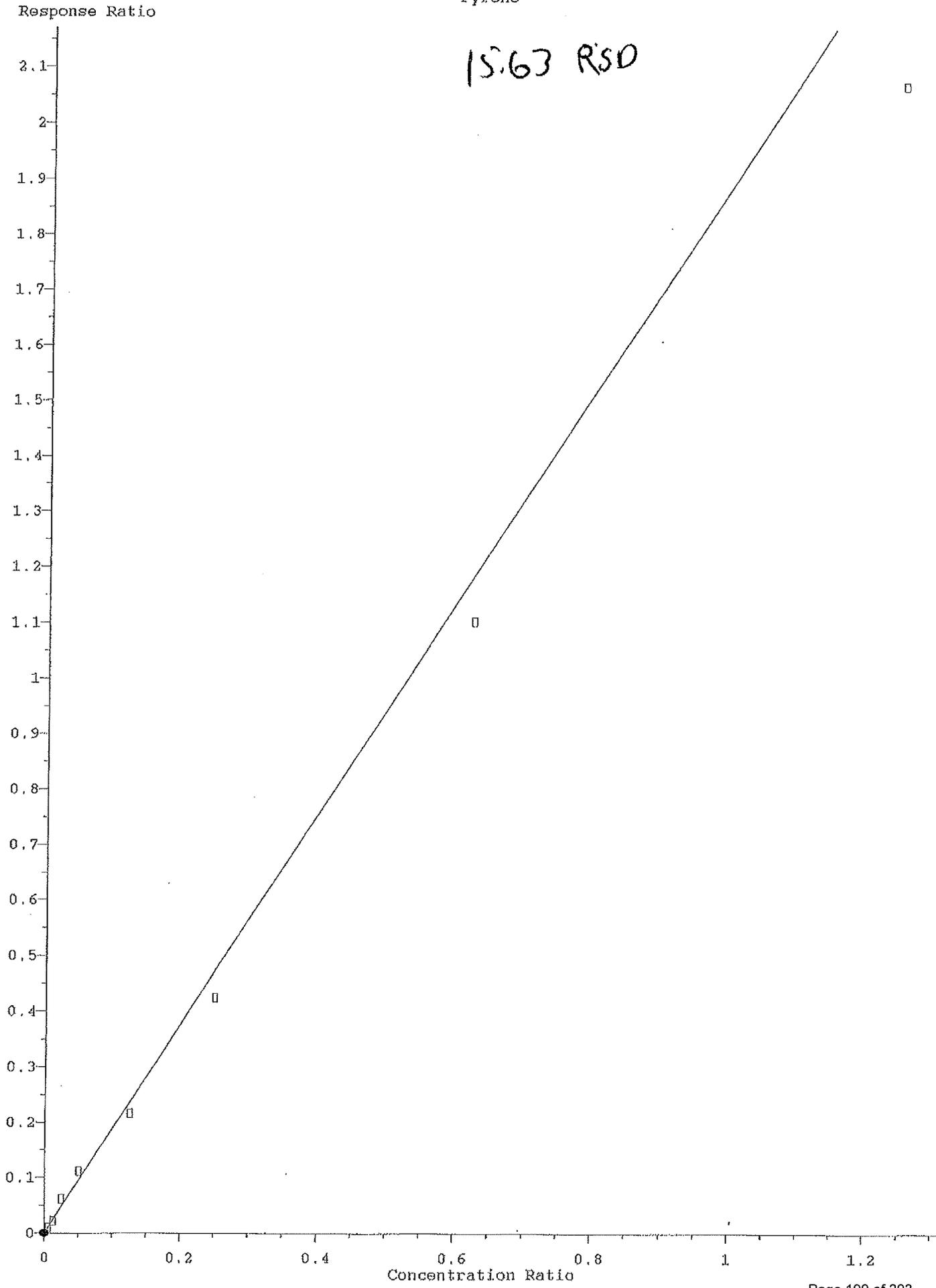
Fluoranthene

Response Ratio



Pyrene

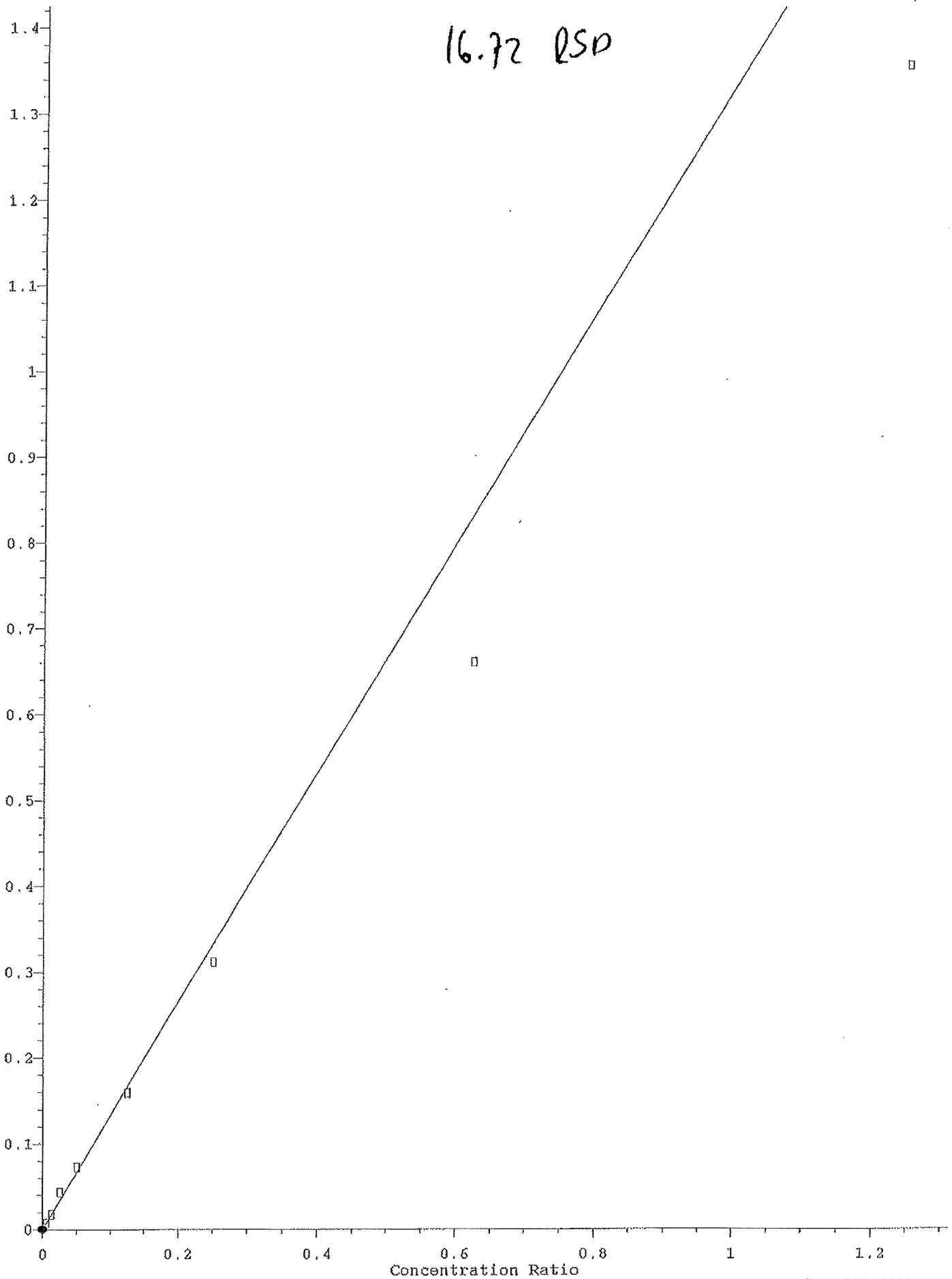
15.63 RSD



Chrysene

Response Ratio

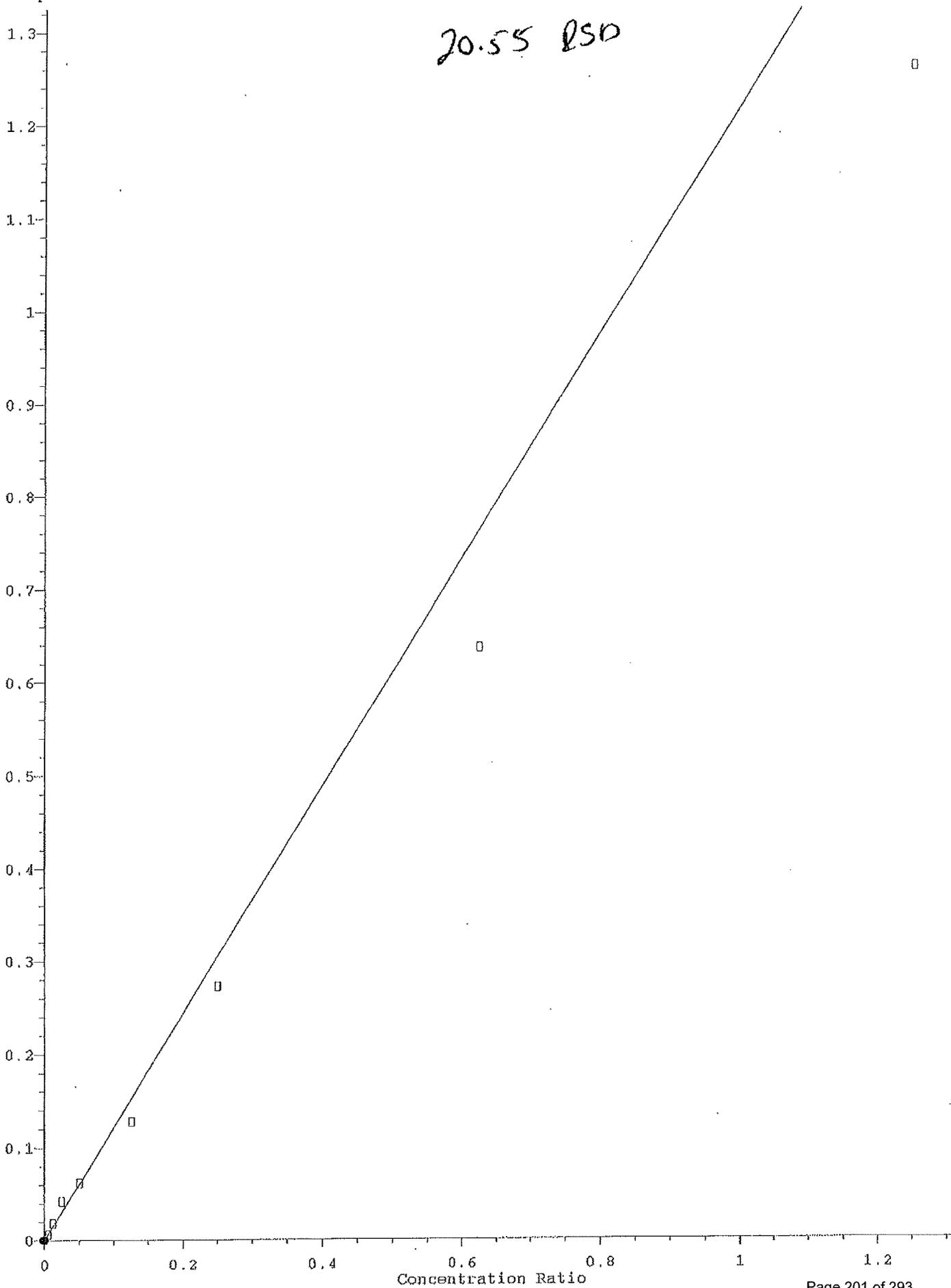
16.72 RSD



Benzo(b)Fluoranthene

Response Ratio

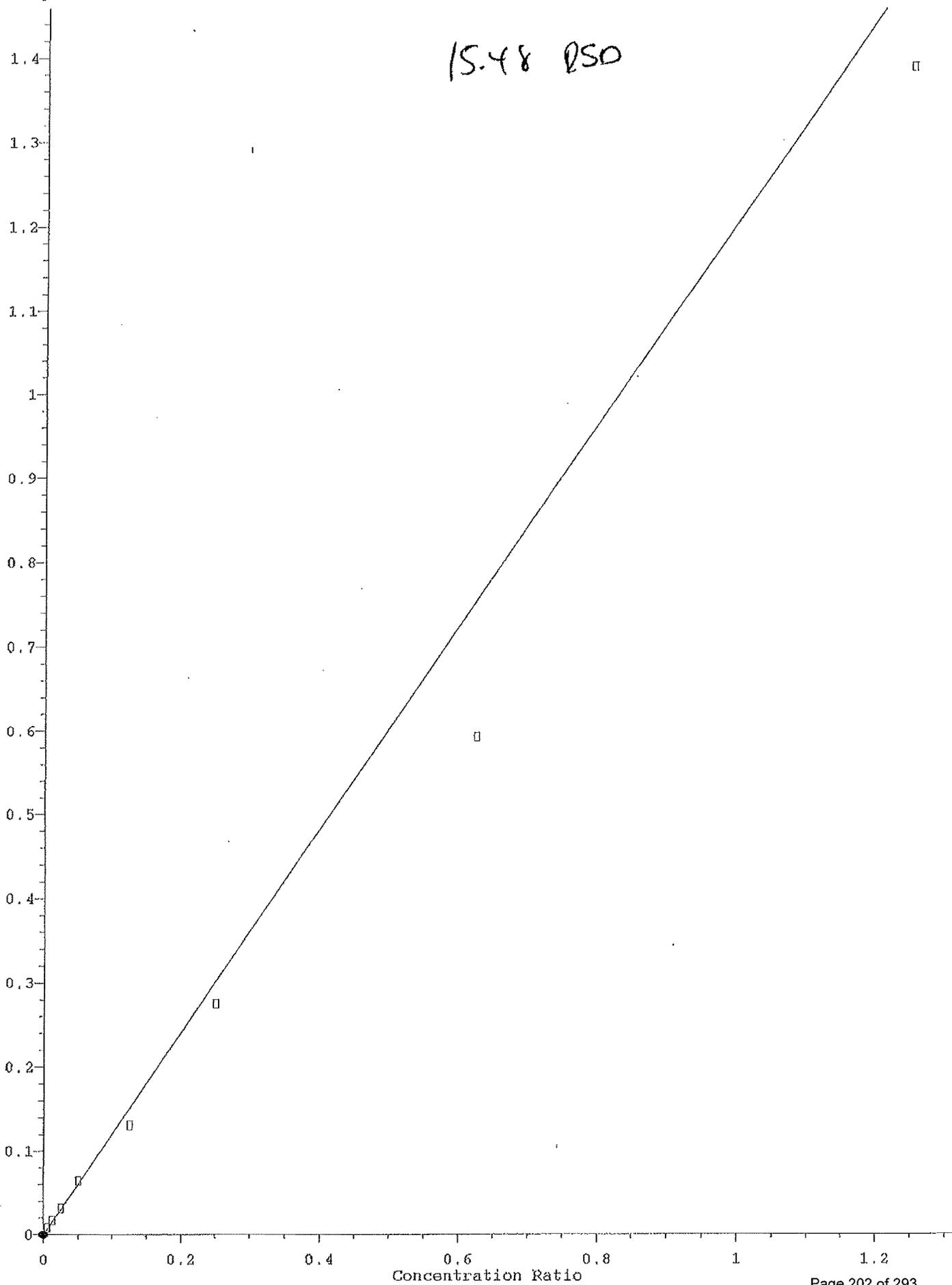
20.55 LSD



Benzo(k)Fluoranthene

Response Ratio

15.48 QSD



8270 PNA Calibration Curve Evaluation Summary

ENVision Instrument 59720 Calibration File Name 010715PN.2es

Method 8000 Quality Control Requirement Analysis

Per Method 8000 all CCC's (Full List Analysis) should be less than 30%. Does this curve satisfy those requirements?

<u>Compound</u>	<u>% RSD Observed</u>
-----------------	-----------------------

Naphthalene	<u>3.09</u>
2-Methylnaphthalene	<u>3.83</u>
1-Methylnaphthalene	<u>3.07</u>
Acenaphthylene	<u>1.85</u>
Acenaphthene	<u>1.93</u>
Fluorene	<u>4.73</u>
Anthracene	<u>2.70</u>
Phenanthrene	<u>2.17</u>
Fluoranthene	<u>2.11</u>
Pyrene	<u>5.79</u>
Benzo(a) anthracene	<u>5.09</u>
Chrysene	<u>4.34</u>
Benzo(b) fluoranthene	<u>2.01</u>
Benzo(k) fluoranthene	<u>3.89</u>
Benzo(a) pyrene	<u>4.47</u>
Indeno(1,2,3-cd)pyrene	<u>2.73</u>
Dibenz(a,h) anthracene	<u>3.83</u>
Benzo(g,h,i) perylene	<u>4.76</u>

Per Method 8270 are SPCC's above minimum requirements? Y/N

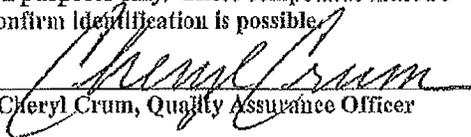
Special Considerations:

All compounds with a %RSD greater than 15% evaluated utilizing alternative statistical models outlined in method 8000 (Linear model evaluation, Quadratic model evaluation-requires minimum of 6 standards). Graphs for compounds utilizing linear and quadratic methods are enclosed with this calibration curve.

Curve evaluated with an INITIAL CALIBRATION VERIFICATION standard immediately following the calibration curve. The ICV shall pass Continuing Calibration Verification requirements. The percent drift acceptable limits observed in method 8000/8270 is +/- 30% for CCC's. If a subset analysis is being performed (eg. PNA, PNA-Slm) all compounds are considered CCC's.

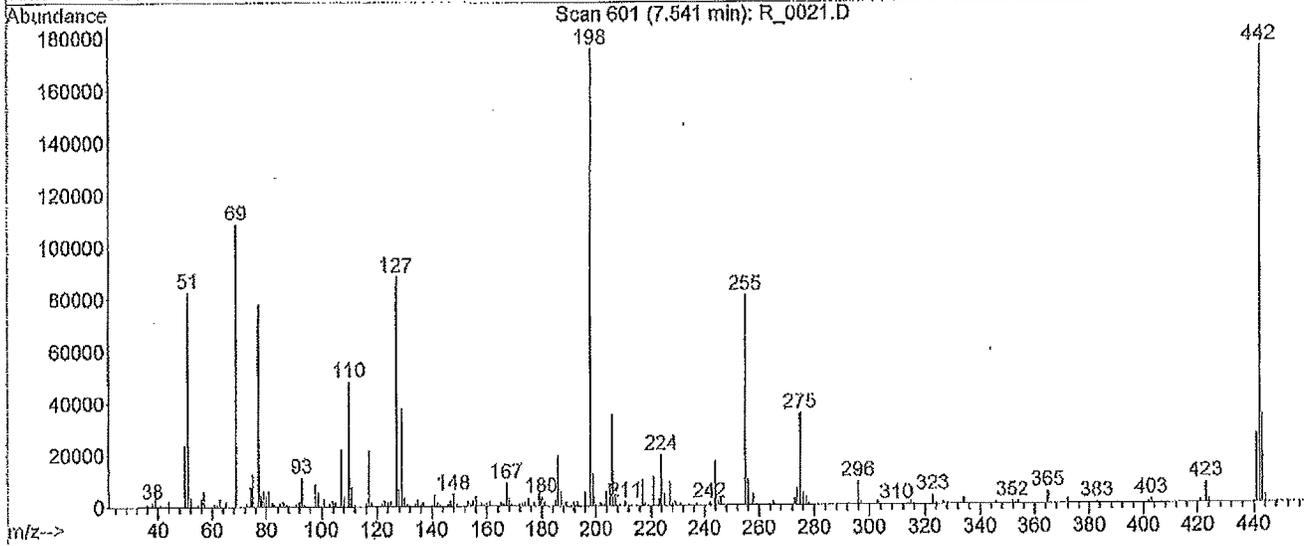
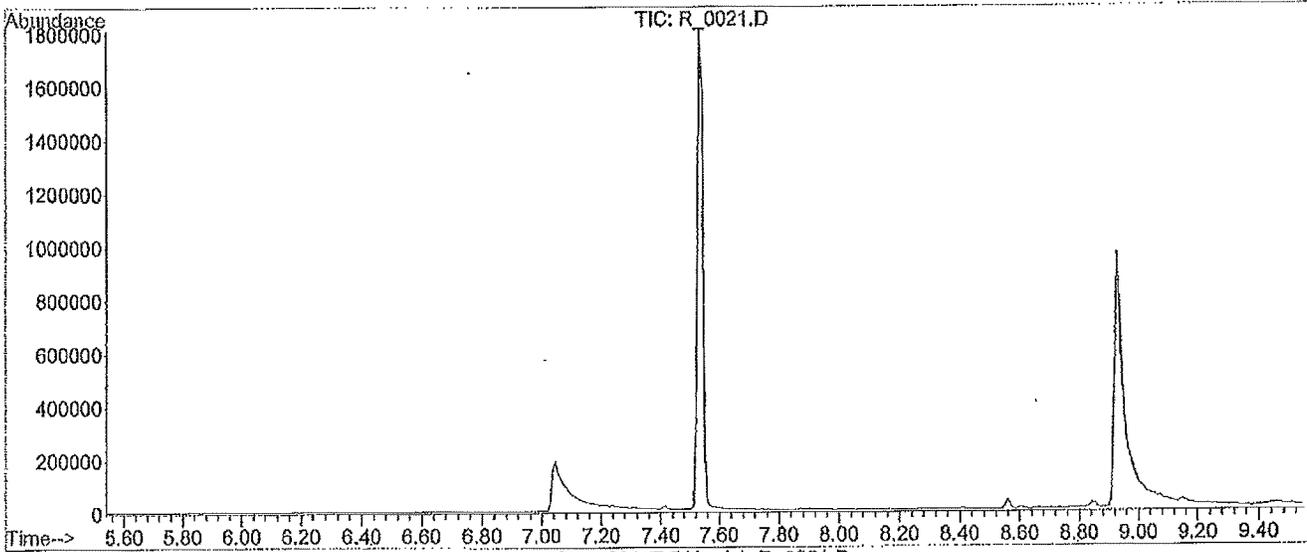
Any compound with %RSD greater than 20% and does not satisfy passing requirements for linear and quadratic evaluation is used for identification purposes only. These compounds must be observed at their respective reporting limits to confirm identification is possible.

Calibration Curve Certified By ENVision QAO


Cheryl Crum, Quality Assurance Officer

DFTFP

Data File : C:\HPCHEM\1\DATA\010715\R_0021.D Vial: 2
 Acq On : 7 Jan 2015 9:52 am Operator: AJG
 Sample : DFTFP SV-2557 Inst : 5972R
 Misc : ISTD#SV-2462 Multiplr: 1.00
 MS Integration Params: rtoint.p
 Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270



Spectrum Information: Scan 601

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.0	82624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	61.9	108768	PASS
70	69	0.00	2	0.5	508	PASS
127	198	40	60	50.4	88488	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	175744	PASS
199	198	5	9	7.2	12599	PASS
275	198	10	31	20.2	35416	PASS
365	198	1	100	2.7	4738	PASS
441	443	0.01	100	77.8	26448	PASS
442	198	40	100	99.7	175168	PASS
443	442	17	23	19.4	33976	PASS

Response Factor Report 5972R

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration

Calibration Files

5 =R_0024.D 10 =R_0025.D 20 =R_0026.D
 30 =R_0027.D 40 =R_0022.D 50 =R_0028.D

Compound	5	10	20	30	40	50	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----							
2) I Naphthalene-d8 (IS)	-----ISTD-----							
3) S Nitrobenzene-d5 (SU)	0.388	0.390	0.420	0.424	0.428	0.398	0.407	4.07
4) CMT Naphthalene	0.952	0.982	1.016	0.978	1.017	1.039	1.001	3.09
5) CMT 2-Methylnaphthalene	0.489	0.500	0.521	0.503	0.537	0.526	0.509	3.83
6) CMT 1-Methylnaphthalene	0.580	0.604	0.613	0.604	0.623	0.623	0.612	3.07
7) I Acenaphthene-d10 (IS)	-----ISTD-----							
8) S 2-Fluorobiphenyl (S)	1.280	1.274	1.331	1.341	1.169	1.280	1.285	4.51
9) CMT Acenaphthylene	1.846	1.930	1.909	1.910	1.852	1.932	1.898	1.85
10) CMT Acenaphthene	1.159	1.108	1.127	1.110	1.096	1.122	1.123	1.93
11) CMT Fluorene	1.209	1.253	1.248	1.274	1.350	1.355	1.271	4.73
12) I Phenanthrene-d10 (IS)	-----ISTD-----							
13) CMT Phenanthrene	1.095	1.110	1.111	1.113	1.132	1.153	1.125	2.17
14) CMT Anthracene	1.123	1.117	1.159	1.145	1.196	1.167	1.157	2.70
15) CMT Fluoranthene	1.045	1.070	1.185	1.240	1.233	1.249	1.167	7.11
16) I Chrysene-d12 (IS)	-----ISTD-----							
17) CMT Pyrene	1.184	1.312	1.255	1.286	1.403	1.363	1.292	5.79
18) S p-Terphenyl-d14 (SU)	0.825	0.799	0.841	0.882	0.874	0.888	0.847	4.08
19) CMT Benzo(a)anthracene	0.978	1.074	1.060	1.043	1.065	1.042	1.060	5.09
20) CMT Chrysene	1.011	0.957	1.018	0.974	1.012	0.972	1.004	4.34
21) I Perylene-d12 (IS)	-----ISTD-----							
22) CMT Benzo(b)fluoranthene	1.167	1.196	1.238	1.316	1.347	1.373	1.257	7.01
23) CMT Benzo(k)fluoranthene	1.329	1.384	1.433	1.474	1.457	1.346	1.404	3.89
24) CMT Benzo(a)pyrene	1.244	1.206	1.230	1.311	1.299	1.256	1.242	4.47
25) CMT Indeno(1,2,3-cd)pyr	1.212	1.323	1.268	1.280	1.249	1.269	1.264	2.73
26) CMT Dibenz(a,h)anthracene	0.970	1.100	1.043	1.058	1.018	1.030	1.035	3.83
27) CMT Benzo(g,h,i)perylene	0.979	1.138	1.065	1.087	1.030	1.064	1.066	4.76

(#) = Out of Range ### Number of calibration levels exceeded format ###

010715PN.M

Thu Jan 08 08:12:43 2015 RPT1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\010715\R_0031.D
 Acq On : 7 Jan 2015 2:04 pm
 Sample : ICV 40/80 SV-2515
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p

Vial: 15
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	197	0.00
2 I	Naphthalene-d8 (IS)	1.000	1.000	0.0	199	0.00
3 S	Nitrobenzene-d5 (SURR)	0.407	0.392	3.7	182	0.00
4 CMT	Naphthalene	1.001	0.970	3.1	190	0.00
5 CMT	2-Methylnaphthalene	0.509	0.519	-2.0	192	0.00
6 CMT	1-Methylnaphthalene	0.612	0.607	0.8	194	0.00
7 I	Acenaphthene-d10 (IS)	1.000	1.000	0.0	171	0.00
8 S	2-Fluorobiphenyl (SURR)	1.285	1.295	-0.8	189	0.00
9 CMT	Acenaphthylene	1.898	1.895	0.2	175	0.00
10 CMT	Acenaphthene	1.123	1.101	2.0	171	0.00
11 CMT	Fluorene	1.271	1.245	2.0	157	0.00
12 I	Phenanthrene-d10 (IS)	1.000	1.000	0.0	139	0.00
13 CMT	Phenanthrene	1.125	1.153	-2.5	142	0.00
14 CMT	Anthracene	1.157	1.203	-4.0	140	0.00
15 CMT	Fluoranthene	1.167	1.176	-0.8	133	0.00
16 I	Chrysene-d12 (IS)	1.000	1.000	0.0	146	0.00
17 CMT	Pyrene	1.292	1.281	0.9	133	0.00
18 S	p-Terphenyl-d14 (SURR)	0.847	0.788	7.0	131	0.00
19 CMT	Benzo(a)anthracene	1.060	1.076	-1.5	147	0.00
20 CMT	Chrysene	1.004	1.031	-2.7	148	0.00
21 I	Perylene-d12 (IS)	1.000	1.000	0.0	181	0.00
22 CMT	Benzo(b)fluoranthene	1.257	1.391	-10.7	186	0.00
23 CMT	Benzo(k)fluoranthene	1.404	1.326	5.6	164	0.00
24 CMT	Benzo(a)pyrene	1.242	1.303	-4.9	181	0.00
25 CMT	Indeno(1,2,3-cd)pyrene	1.264	1.276	-0.9	184	0.00
26 CMT	Dibenz(a,h)anthracene	1.035	1.049	-1.4	186	0.00
27 CMT	Benzo(g,h,i)perylene	1.066	1.092	-2.4	191	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0031.D
 Acq On : 7 Jan 2015 2:04 pm
 Sample : ICV 40/80 SV-2515
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 15:33 2015

Vial: 15
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.53	152	373122	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1472696	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	681052	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	975052	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	907393	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	701501m	40.00	ug/mL	0.00

System Monitoring Compounds

3) Nitrobenzene-d5 (SURR)	5.13	82	721600	48.11	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	96.22%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	1102405	50.38	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	100.76%		
18) p-Terphenyl-d14 (SURR)	11.98	244	893732	46.51	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery =	93.02%		

Target Compounds

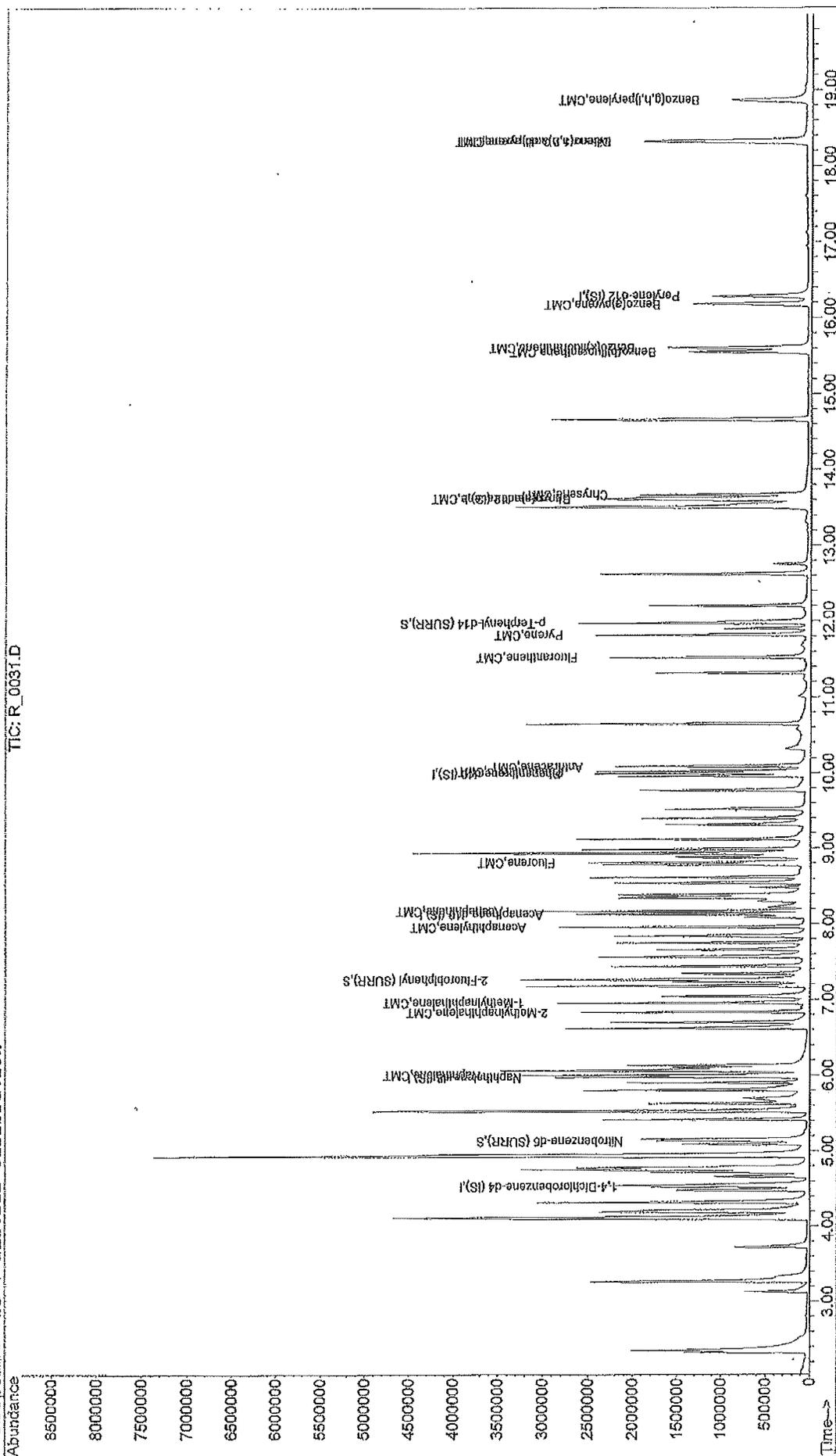
Qvalue

4) Naphthalene	6.00	128	1428482m	38.74	ug/mL	
5) 2-Methylnaphthalene	6.83	141	763944	40.77	ug/mL	99
6) 1-Methylnaphthalene	6.96	142	894332	39.68	ug/mL	93
9) Acenaphthylene	7.96	152	1290599	39.94	ug/mL	100
10) Acenaphthene	8.17	154	749615	39.20	ug/mL	99
11) Fluorene	8.81	166	848102	39.18	ug/mL	100
13) Phenanthrene	10.03	178	1124190	41.00	ug/mL	99
14) Anthracene	10.10	178	1173447	41.59	ug/mL	100
15) Fluoranthene	11.53	202	1146464	40.29	ug/mL	99
17) Pyrene	11.82	202	1162546	39.68	ug/mL	100
19) Benzo(a)anthracene	13.61	228	976469	40.60	ug/mL	99
20) Chrysene	13.68	228	935700	41.07	ug/mL	99
22) Benzo(b)fluoranthene	15.57	252	975583	44.26	ug/mL	99
23) Benzo(k)fluoranthene	15.61	252	930248	37.77	ug/mL	100
24) Benzo(a)pyrene	16.19	252	914070	41.97	ug/mL	100
25) Indeno(1,2,3-cd)pyrene	18.33	276	895007m	40.39	ug/mL	
26) Dibenz(a,h)anthracene	18.34	278	735550m	40.52	ug/mL	
27) Benzo(g,h,i)perylene	18.87	276	765791m	40.96	ug/mL	

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0031.D
 Acq On : 7 Jan 2015 2:04 pm
 Sample : ICV 40/80 SV-2515
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 15:33 2015
 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0022.D Vial: 6
 Acq On : 7 Jan 2015 10:08 am Operator: AJG
 Sample : 40/80 CURVE SV-2547 Inst : 5972R
 Misc : ISTD#SV-2532 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 7 10:35 2015 Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 10:35:30 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	189292	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	739388	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	399083	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	700252	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	622564	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	388363	40.00	ug/mL	0.00

System Monitoring Compounds

3) Nitrobenzene-d5 (SURR)	5.14	82	395973	50.37	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	100.74%
8) 2-Fluorobiphenyl (SURR)	7.27	172	583307	42.98	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	85.96%
18) p-Terphenyl-d14 (SURR)	11.99	244	679973	51.48	ug/mL	0.00
Spiked Amount	50.000	Range	26 - 136	Recovery	=	102.96%

Target Compounds

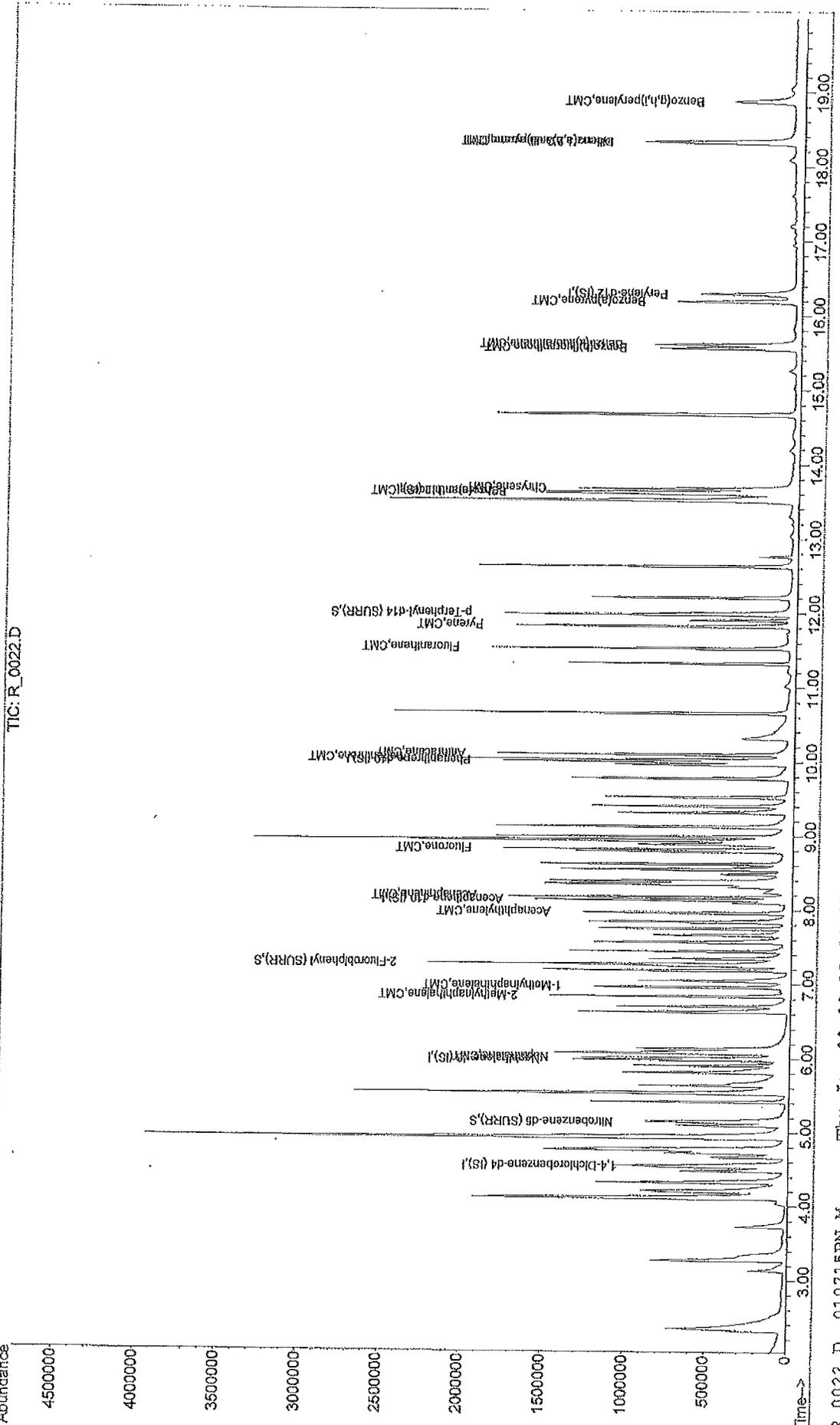
	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.01	128	751838	39.37	ug/mL	100
5) 2-Methylnaphthalene	6.84	141	397179	37.41	ug/mL	88
6) 1-Methylnaphthalene	6.97	142	460892	40.32	ug/mL	100
9) Acenaphthylene	7.97	152	739001	35.86	ug/mL	100
10) Acenaphthene	8.18	154	437329	34.37	ug/mL	100
11) Fluorene	8.82	166	538697	41.89	ug/mL	100
13) Phenanthrene	10.03	178	792755	39.01	ug/mL	99
14) Anthracene	10.10	178	837536	40.54	ug/mL	100
15) Fluoranthene	11.53	202	863411	40.69	ug/mL	100
17) Pyrene	11.83	202	873191	40.39	ug/mL	100
19) Benzo(a)anthracene	13.61	228	663323	37.35	ug/mL	99
20) Chrysene	13.67	228	630192	38.77	ug/mL	100
22) Benzo(b)fluoranthene	15.57	252	523117	40.04	ug/mL	98
23) Benzo(k)fluoranthene	15.61	252	566017	44.63	ug/mL	100
24) Benzo(a)pyrene	16.19	252	504570	40.56	ug/mL	100
25) Indeno(1,2,3-cd)pyrene	18.33	276	485158	37.22	ug/mL	100
26) Dibenz(a,h)anthracene	18.34	278	395412	36.85	ug/mL	100
27) Benzo(g,h,i)perylene	18.88	276	399972	36.03	ug/mL	100

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0022.D
Acq On : 7 Jan 2015 10:08 am
Sample : 40/80 CURVE SV-2547
Misc : ISID#SV-2532
MS Integration Params: rteint.p
Quant Time: Jan 7 16:35 2015

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : ENA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



TIC: R_0022.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0023.D
 Acq On : 7 Jan 2015 10:34 am
 Sample : 1/2 CURVE SV-2507
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:28 2015

Vial: 7
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 10:36:08 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.53	152	607510	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	2416796	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	1135741	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	1657006	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	1569745	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.30	264	1203797	40.00	ug/mL	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.14	82	1218569	47.42	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	94.84%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	1876078	48.57	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	97.14%		
18) p-Terphenyl-d14 (SURR)	11.99	244	1609154	48.32	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery =	96.64%		

Target Compounds						Qvalue
4) Naphthalene	6.00	128	61948	0.99	ug/mL	94
5) 2-Methylnaphthalene	6.86	141	29359	0.85	ug/mL	98
6) 1-Methylnaphthalene	6.97	142	38553	1.03	ug/mL	96
9) Acenaphthylene	7.97	152	54134	0.92	ug/mL	99
10) Acenaphthene	8.17	154	32435	0.90	ug/mL	98
11) Fluorene	8.83	166	34376	0.94	ug/mL	92
13) Phenanthrene	10.03	178	48058	1.00	ug/mL	97
14) Anthracene	10.10	178	49459	1.01	ug/mL	96
15) Fluoranthene	11.55	202	47638	0.95	ug/mL	99
17) Pyrene	11.84	202	48590	0.89	ug/mL	99
19) Benzo(a)anthracene	13.61	228	45484	1.02	ug/mL	98
20) Chrysene	13.66	228	42671	1.04	ug/mL	96
22) Benzo(b)fluoranthene	15.57	252	34905	0.86	ug/mL	97
23) Benzo(k)fluoranthene	15.63	252	42340	1.08	ug/mL	98
24) Benzo(a)pyrene	16.19	252	34560	0.90	ug/mL	99
25) Indeno(1,2,3-cd)pyrene	18.35	276	37438	0.93	ug/mL	99
26) Dibenz(a,h)anthracene	18.36	278	30940	0.93	ug/mL	98
27) Benzo(g,h,i)perylene	18.90	276	33026	0.96	ug/mL	95

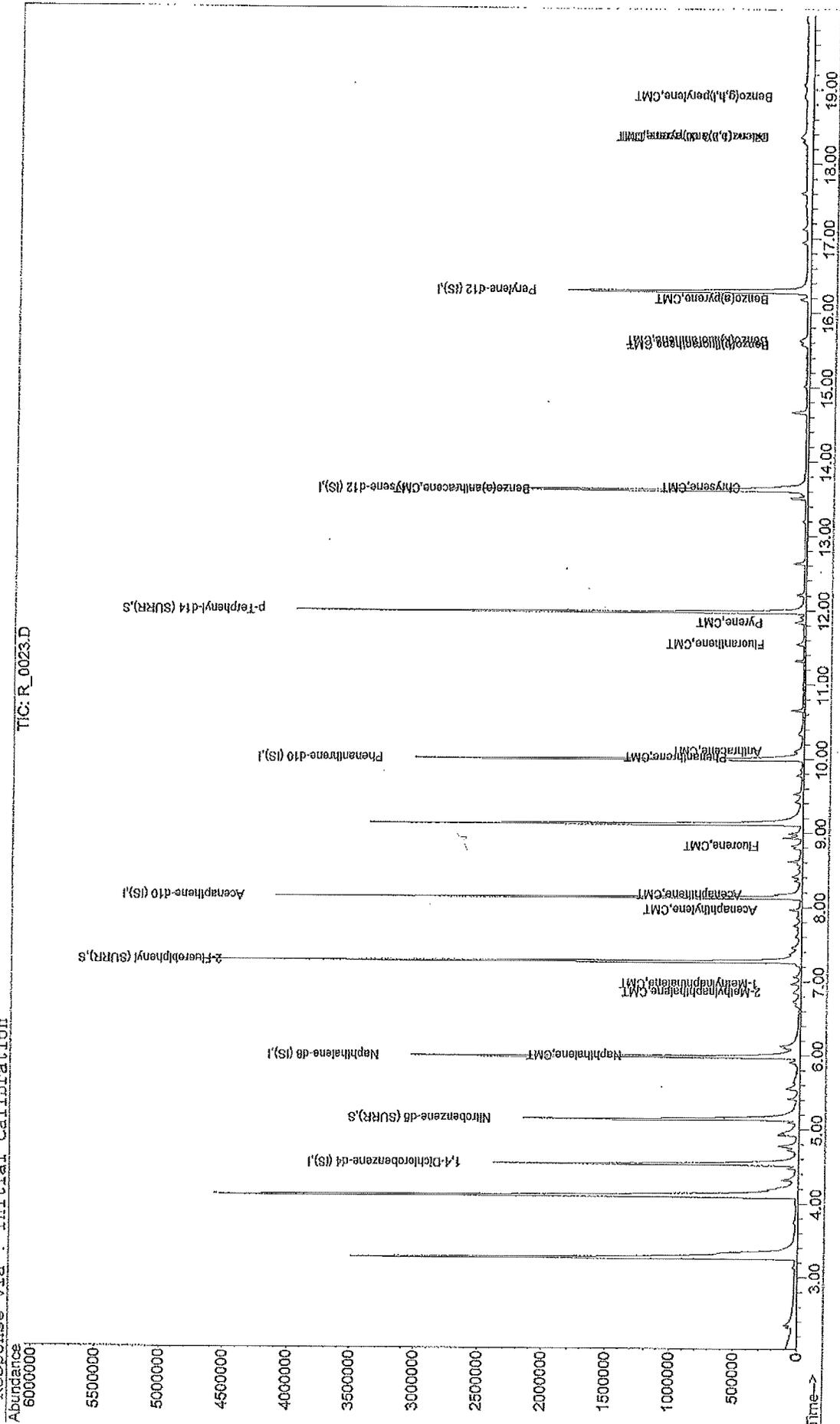
Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0023.D
 Acq On : 7 Jan 2015 10:34 am
 Sample : 1/2 CURVE SV-2507
 Misc : ISID#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:28 2015

Vial: 7
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0024.D
 Acq On : 7 Jan 2015 11:00 am
 Sample : 5/10 CURVE SV-2508
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015

Vial: 8
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:28:53 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	294235	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1165921	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	552376	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	810215	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.62	240	744599	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	574045	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	565547	45.79	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	91.58%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	883777	47.49	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	94.98%		
18) p-Terphenyl-d14 (SURR)	11.98	244	767949	48.89	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery =	97.78%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	138808	4.66	ug/mL	97
5) 2-Methylnaphthalene	6.85	141	71293	4.44	ug/mL	98
6) 1-Methylnaphthalene	6.97	142	84471	4.68	ug/mL	100
9) Acenaphthylene	7.96	152	127439	4.58	ug/mL	99
10) Acenaphthene	8.17	154	80014	4.69	ug/mL	94
11) Fluorene	8.82	166	83470	4.77	ug/mL	99
13) Phenanthrene	10.02	178	110883	4.77	ug/mL	99
14) Anthracene	10.11	178	113731	4.78	ug/mL	99
15) Fluoranthene	11.54	202	105850	4.37	ug/mL	98
17) Pyrene	11.83	202	110225	4.37	ug/mL	99
19) Benzo(a)anthracene	13.60	228	90994	4.37	ug/mL	99
20) Chrysene	13.67	228	94068	4.87	ug/mL	97
22) Benzo(b)fluoranthene	15.57	252	83763	4.44	ug/mL	96
23) Benzo(k)fluoranthene	15.61	252	95374	5.08	ug/mL	96
24) Benzo(a)pyrene	16.18	252	89247	5.00	ug/mL	96
25) Indeno(1,2,3-cd)pyrene	18.34	276	86944	4.61	ug/mL	98
26) Dibenz(a,h)anthracene	18.34	278	69582	4.48	ug/mL	96
27) Benzo(g,h,i)perylene	18.89	276	70259	4.36	ug/mL	99

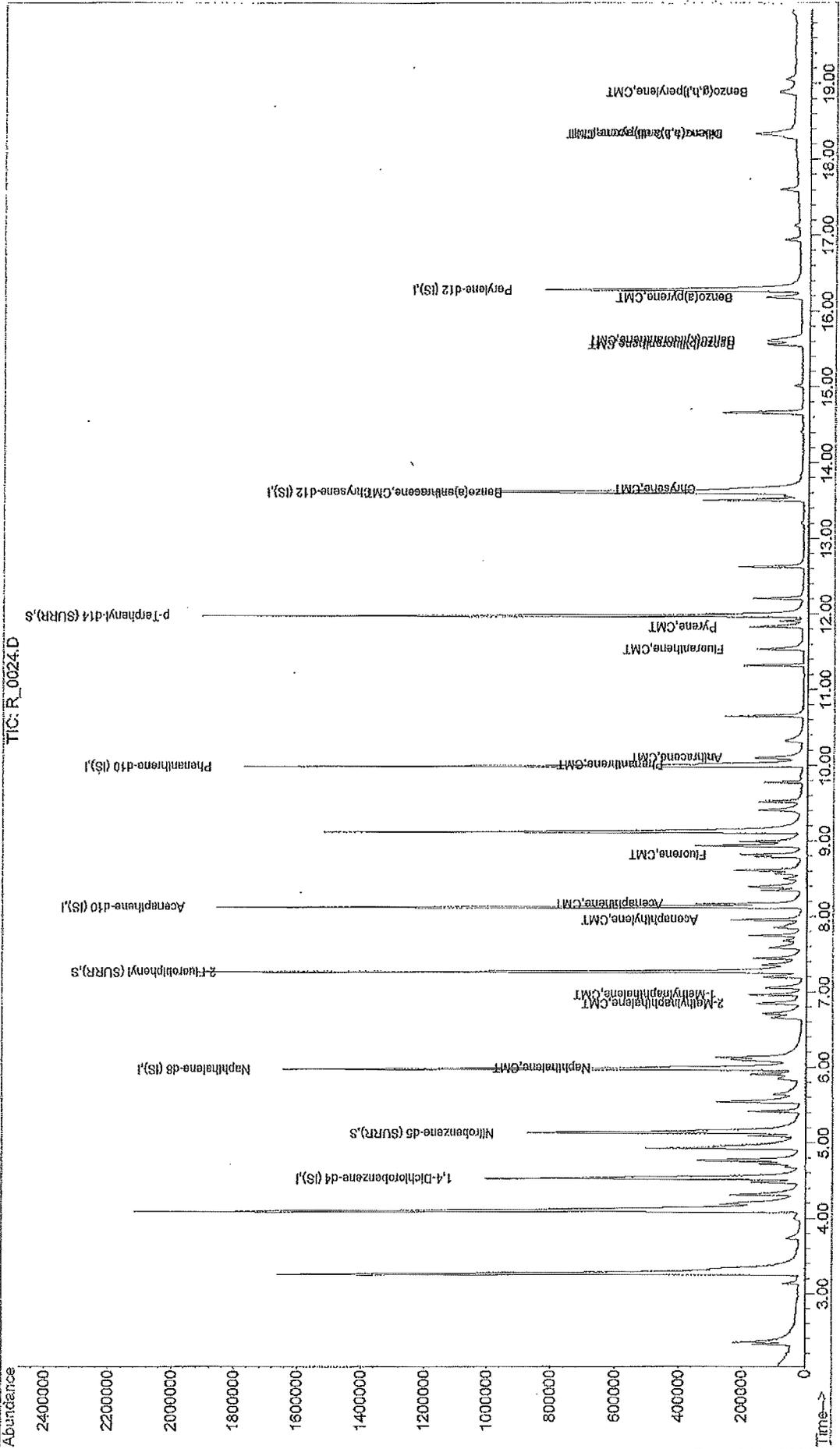
Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0024.D
 Acq On : 7 Jan 2015 11:00 am
 Sample : 5/10 CURVE SV-2508
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015

Vial: 8
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTI Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0025.D Vial: 9
 Acq On : 7 Jan 2015 11:27 am Operator: AJG
 Sample : 10/20 CURVE SV-2509 Inst : 5972R
 Misc : ISTD#SV-2532 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015 Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:29:14 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.53	152	709990	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	2877463	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	1310272	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	1909981	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	1639933	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.30	264	1339709	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.14	82	1403723	46.22	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	92.44%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	2086090	47.68	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	95.36%		
18) p-Terphenyl-d14 (SURR)	11.99	244	1638136	47.53	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 136		Recovery =	95.06%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	706565	9.69	ug/mL	98
5) 2-Methylnaphthalene	6.84	141	359467	9.25	ug/mL	97
6) 1-Methylnaphthalene	6.96	142	434237	9.88	ug/mL	99
9) Acenaphthylene	7.96	152	632349	9.72	ug/mL	99
10) Acenaphthene	8.17	154	362927	9.00	ug/mL	98
11) Fluorene	8.81	166	410320	9.95	ug/mL	99
13) Phenanthrene	10.03	178	529865	9.75	ug/mL	99
14) Anthracene	10.10	178	533565	9.56	ug/mL	98
15) Fluoranthene	11.53	202	510902	9.09	ug/mL	98
17) Pyrene	11.82	202	537781	9.88	ug/mL	99
19) Benzo(a)anthracene	13.61	228	440459	9.80	ug/mL	99
20) Chrysene	13.67	228	392499	9.24	ug/mL	100
22) Benzo(b)fluoranthene	15.56	252	400672	9.22	ug/mL	99
23) Benzo(k)fluoranthene	15.60	252	463678	10.52	ug/mL	99
24) Benzo(a)pyrene	16.18	252	403770	9.66	ug/mL	99
25) Indeno(1,2,3-cd)pyrene	18.32	276	443217	10.20	ug/mL	98
26) Dibenz(a,h)anthracene	18.32	278	368476	10.33	ug/mL	100
27) Benzo(g,h,i)perylene	18.87	276	381141	10.35	ug/mL	99

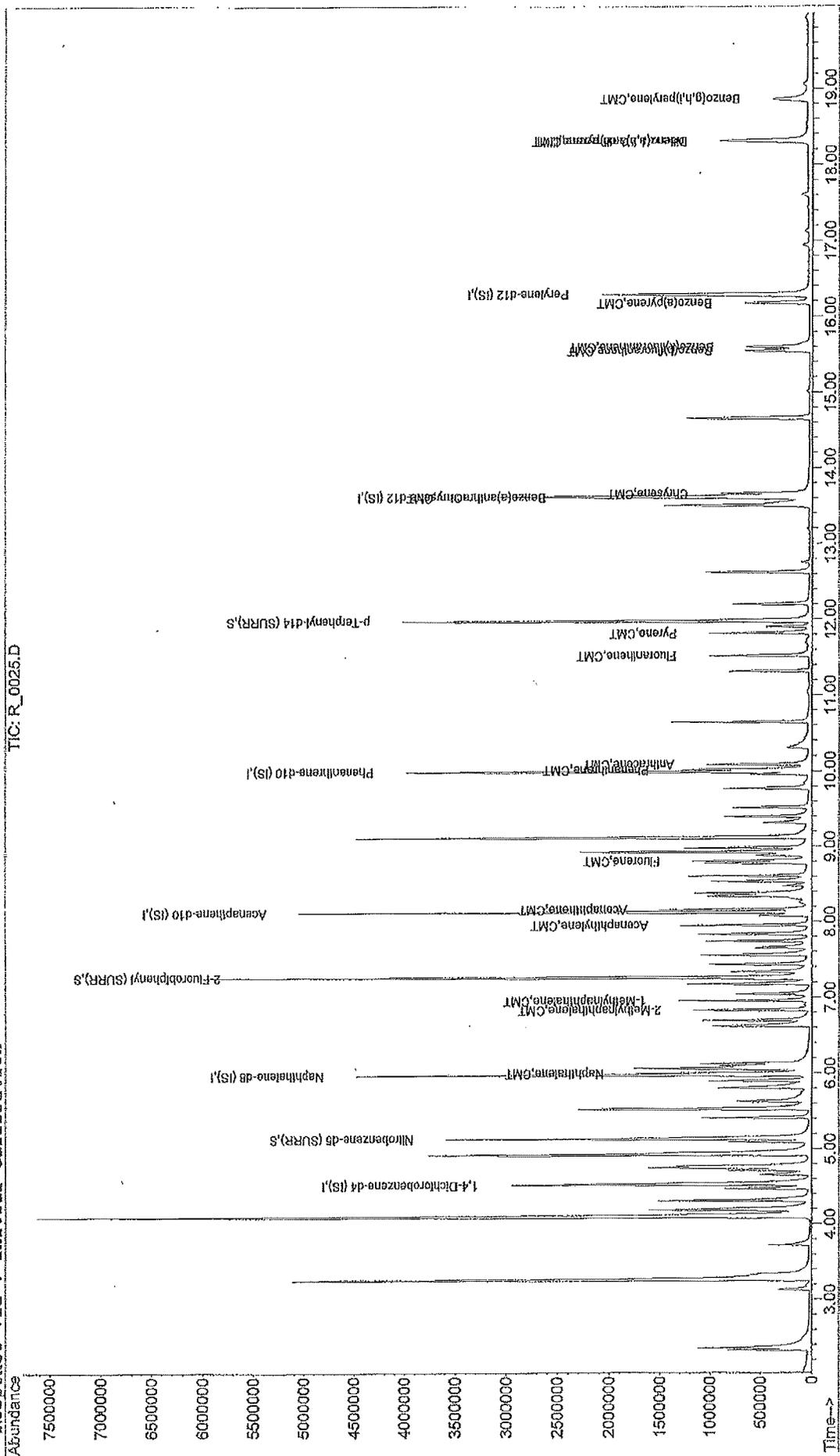
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\NR_0025.D
Acq On : 7 Jan 2015 11:27 am
Sample : 10/20 CURVE SV-2509
Misc : ISTD#SV-2532
MS Integration Params: rteint.p
Quant Time: Jan 7 12:29 2015

Vial: 9
Operator: AJG
Inst : 5972R
Multipir: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RIE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0026.D
 Acq On : 7 Jan 2015 11:53 am
 Sample : 20/40 CURVE SV-2510
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:29 2015

Vial: 10
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:29:40 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	283945	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1136799	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	537632	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	778411	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.62	240	769701	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	576424	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	596253	49.88	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	99.76%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	894653	50.24	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	100.48%		
18) p-Terphenyl-d14 (SURR)	11.98	244	809449	50.18	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery =	100.36%		

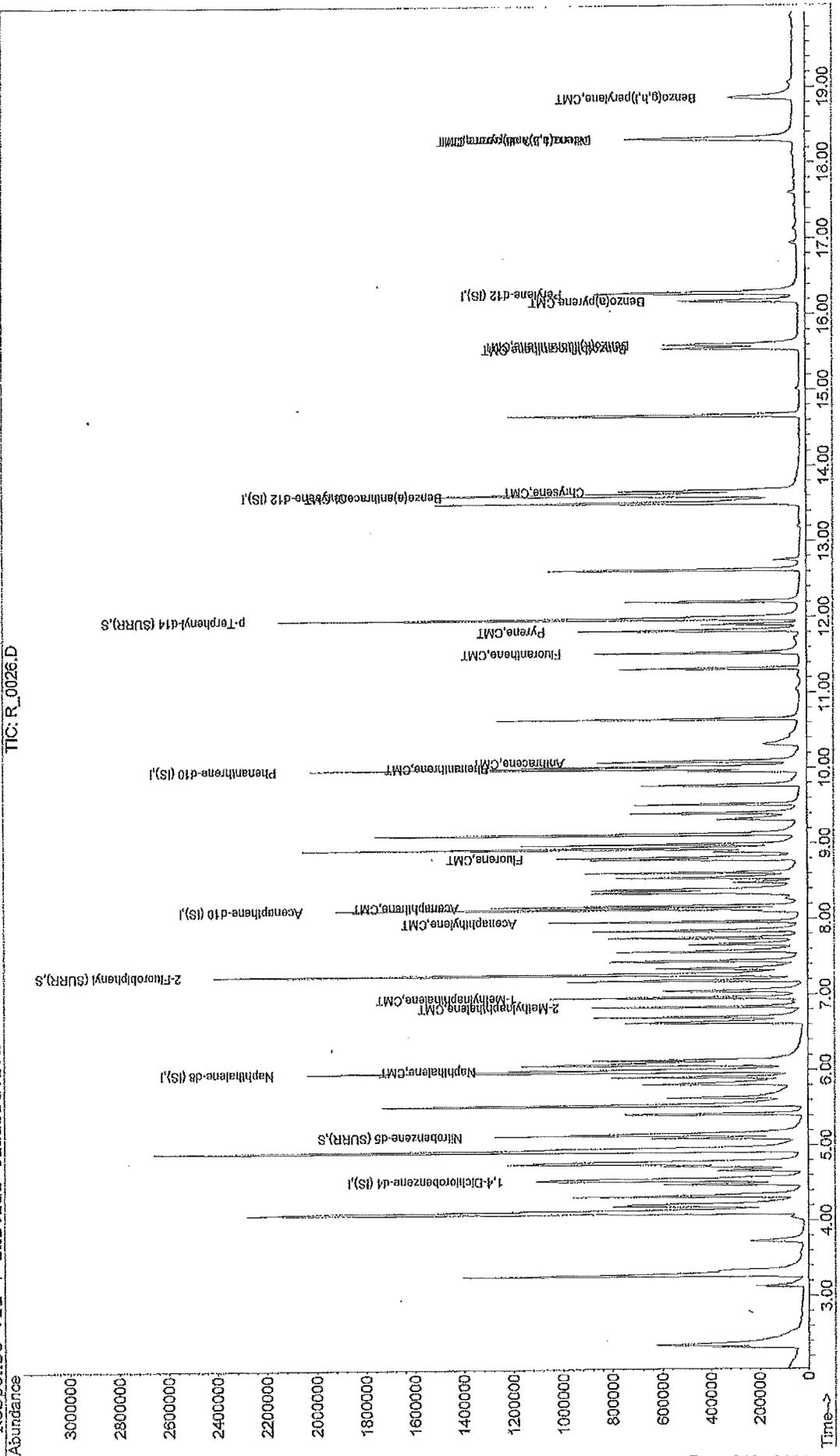
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	577364	20.23	ug/mL	99
5) 2-Methylnaphthalene	6.84	141	295982	19.73	ug/mL	100
6) 1-Methylnaphthalene	6.96	142	348404	20.24	ug/mL	99
9) Acenaphthylene	7.96	152	513168	19.49	ug/mL	100
10) Acenaphthene	8.17	154	302900	18.78	ug/mL	98
11) Fluorene	8.81	166	335601	19.99	ug/mL	99
13) Phenanthrene	10.02	178	432228	19.63	ug/mL	99
14) Anthracene	10.09	178	451167	20.00	ug/mL	98
15) Fluoranthene	11.53	202	461087	20.50	ug/mL	99
17) Pyrene	11.82	202	483166	19.05	ug/mL	99
19) Benzo(a)anthracene	13.60	228	407883	19.46	ug/mL	99
20) Chrysene	13.67	228	391698	19.88	ug/mL	98
22) Benzo(b)fluoranthene	15.56	252	356895	19.30	ug/mL	99
23) Benzo(k)fluoranthene	15.60	252	412928	21.56	ug/mL	99
24) Benzo(a)pyrene	16.18	252	354416	19.83	ug/mL	99
25) Indeno(1,2,3-cd)pyrene	18.32	276	365416	19.57	ug/mL	99
26) Dibenz(a,h)anthracene	18.32	278	300540	19.61	ug/mL	98
27) Benzo(g,h,i)perylene	18.87	276	307056	19.39	ug/mL	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0026.D
Acq On : 7 Jan 2015 11:53 am
Sample : 20/49 CURVE SV-2510
Misc : ISTD#SV-2532
MS Integration Params: Iteint.P
Quant Time: Jan 7 12:29 2015

Vial: 10
Operator: AJG
Inst : 5972R
Multiplr: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : ENA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0027.D
 Acq On : 7 Jan 2015 12:19 pm
 Sample : 30/60 CURVE SV-2511
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 12:39 2015

Vial: 11
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:30:08 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	260100	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1037963	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	482459	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	759960	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	758043	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.28	264	503540	40.00	ug/mL	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.13	82	550336	50.63	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	101.26%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	808617	51.17	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	102.34%		
18) p-Terphenyl-d14 (SURR)	11.98	244	836001	52.83	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery =	105.66%		

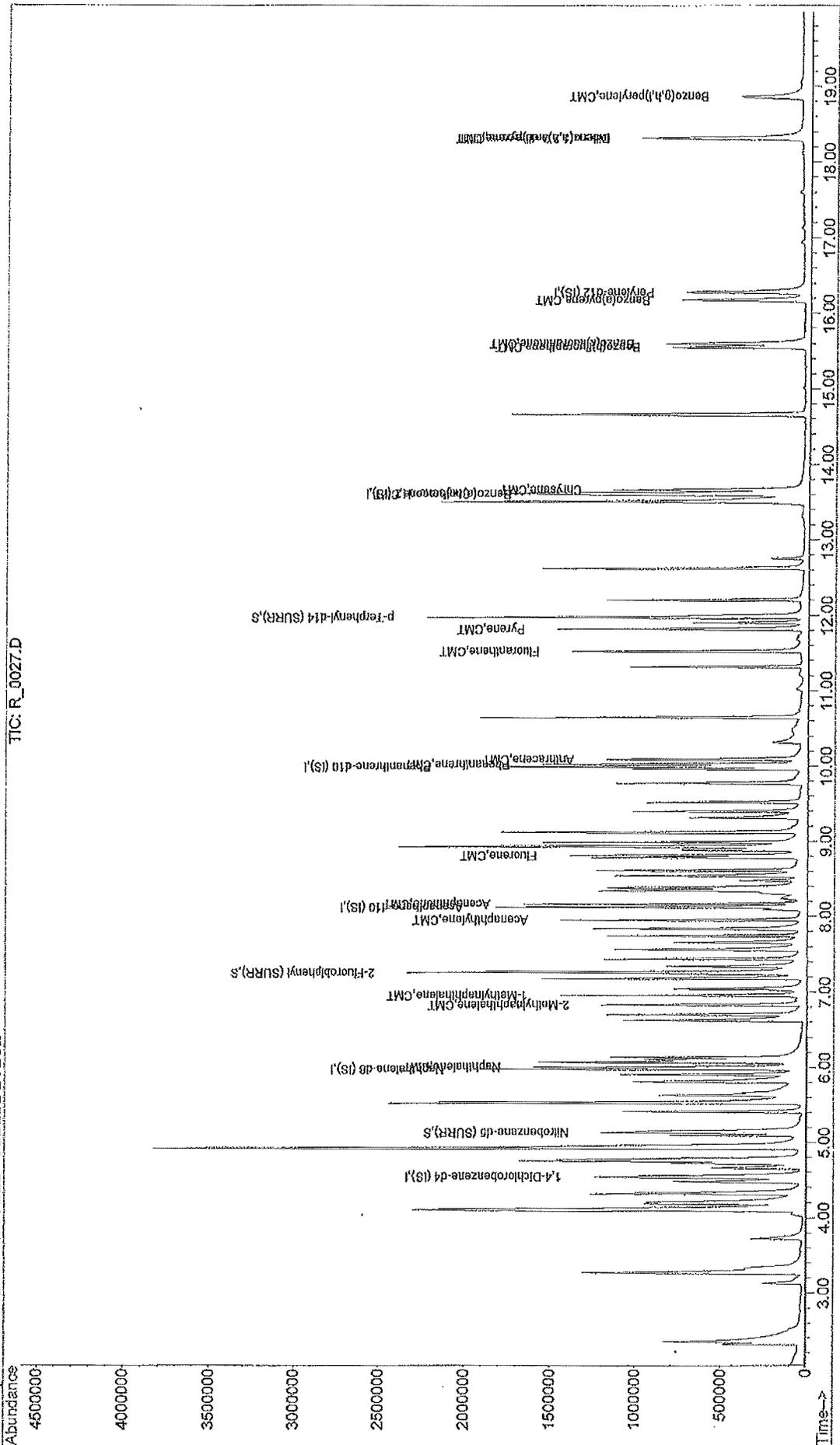
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	761695	29.31	ug/mL	99
5) 2-Methylnaphthalene	6.84	141	391906	28.90	ug/mL	98
6) 1-Methylnaphthalene	6.96	142	470233	29.83	ug/mL	98
9) Acenaphthylene	7.96	152	691109	29.67	ug/mL	100
10) Acenaphthene	8.17	154	401510	28.34	ug/mL	99
11) Fluorene	8.81	166	460846	30.56	ug/mL	99
13) Phenanthrene	10.02	178	634224	29.79	ug/mL	99
14) Anthracene	10.10	178	652852	29.73	ug/mL	97
15) Fluoranthene	11.53	202	707035	32.28	ug/mL	99
17) Pyrene	11.82	202	730937	29.76	ug/mL	99
19) Benzo(a)anthracene	13.60	228	592773	28.96	ug/mL	99
20) Chrysene	13.67	228	553529	28.64	ug/mL	99
22) Benzo(b)fluoranthene	15.56	252	496975	31.17	ug/mL	99
23) Benzo(k)fluoranthene	15.60	252	556650	32.59	ug/mL	100
24) Benzo(a)pyrene	16.18	252	495126	31.78	ug/mL	99
25) Indeno(1,2,3-cd)pyrene	18.32	276	483298	29.92	ug/mL	98
26) Dibenz(a,h)anthracene	18.33	278	399434	30.10	ug/mL	97
27) Benzo(g,h,i)perylene	18.87	276	410657	29.96	ug/mL	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\R_0027.D
Acq On : 7 Jan 2015 12:19 pm
Sample : 30/60 CURVE SV-2511
Misc : ISID#SV-2532
MS Integration Params: rteint.p
Quant Time: Jan 7 12:39 2015

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : ENA 8270
Last Update : wed Jan 07 13:31:20 2015
Response via : Initial Calibration



TIC: R_0027.D

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010715\R_0028.D
 Acq On : 7 Jan 2015 12:45 pm
 Sample : 50/100 CURVE SV-2512
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Jan 7 13:31 2015

Vial: 12
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 12:40:37 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.54	152	250960	40.00	ug/mL	0.00
2) Naphthalene-d8 (IS)	5.98	136	1001156	40.00	ug/mL	0.00
7) Acenaphthene-d10 (IS)	8.13	164	488993	40.00	ug/mL	0.00
12) Phenanthrene-d10 (IS)	10.00	188	826350	40.00	ug/mL	0.00
16) Chrysene-d12 (IS)	13.63	240	777034	40.00	ug/mL	0.00
21) Perylene-d12 (IS)	16.29	264	536218	40.00	ug/mL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	497980	47.79	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	95.58%		
8) 2-Fluorobiphenyl (SURR)	7.27	172	782553	49.15	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	98.30%		
18) p-Terphenyl-d14 (SURR)	11.98	244	862318	52.93	ug/mL	0.00
Spiked Amount	50.000	Range 26 - 136	Recovery =	105.86%		

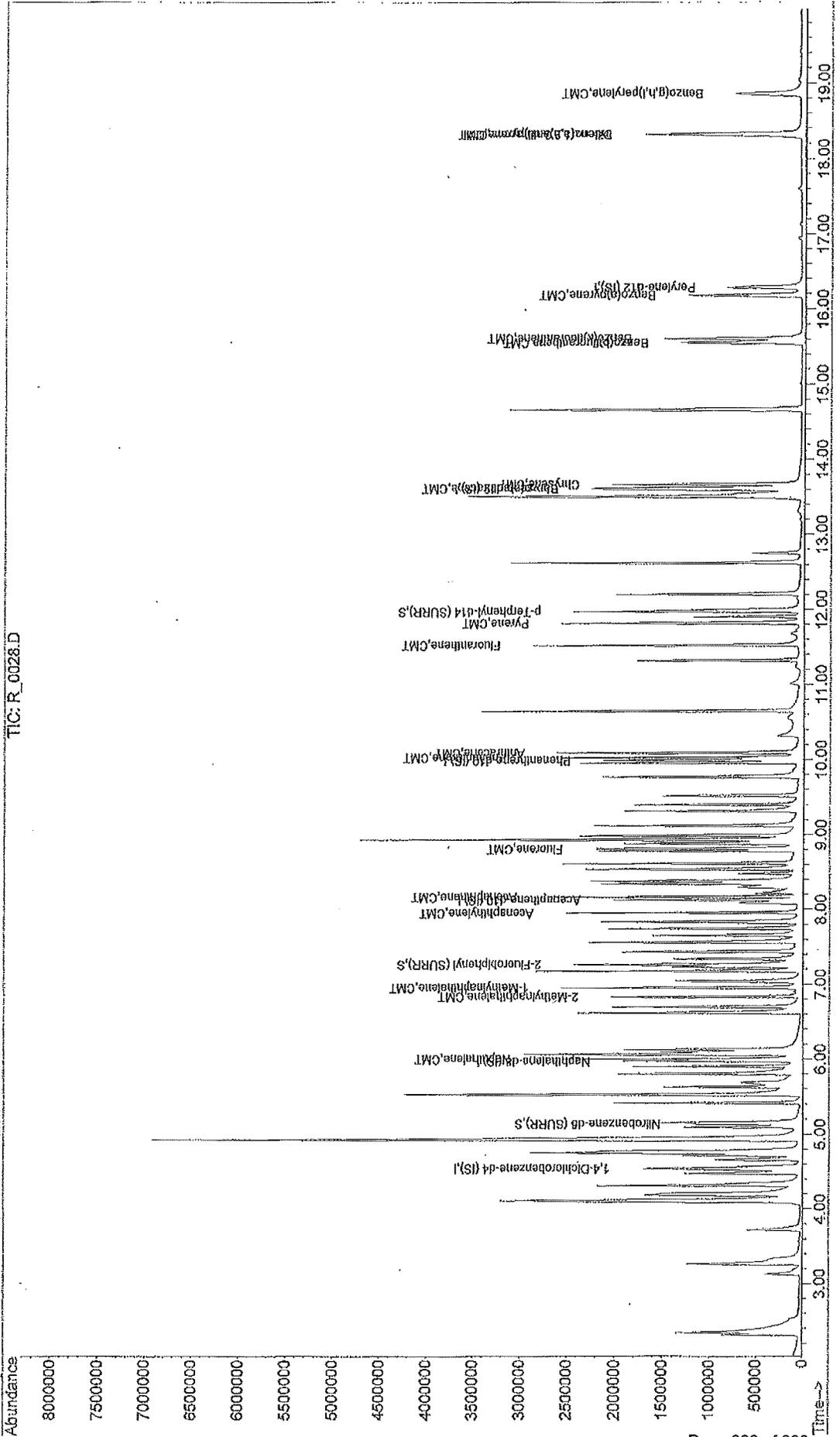
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.00	128	1300377	52.22	ug/mL	99
5) 2-Methylnaphthalene	6.84	141	658641	51.19	ug/mL	99
6) 1-Methylnaphthalene	6.96	142	780007	51.30	ug/mL	94
9) Acenaphthylene	7.96	152	1180644	50.44	ug/mL	100
10) Acenaphthene	8.17	154	685532	48.77	ug/mL	98
11) Fluorene	8.82	166	828379	54.04	ug/mL	100
13) Phenanthrene	10.03	178	1190969	51.31	ug/mL	98
14) Anthracene	10.10	178	1205816	50.43	ug/mL	99
15) Fluoranthene	11.53	202	1290005	53.77	ug/mL	100
17) Pyrene	11.82	202	1323590	52.83	ug/mL	100
19) Benzo(a)anthracene	13.61	228	1012052	48.61	ug/mL	100
20) Chrysene	13.68	228	943794	47.96	ug/mL	99
22) Benzo(b)fluoranthene	15.56	252	920317	54.84	ug/mL	99
23) Benzo(k)fluoranthene	15.61	252	902086	48.51	ug/mL	100
24) Benzo(a)pyrene	16.19	252	842080	50.67	ug/mL	100
25) Indeno(1,2,3-cd)pyrene	18.33	276	850370	49.88	ug/mL	99
26) Dibenz(a,h)anthracene	18.34	278	690269	49.36	ug/mL	97
27) Benzo(g,h,i)perylene	18.87	276	713379	49.47	ug/mL	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010715\NR_0028.D
Acq On : 7 Jan 2015 12:45 pm
Sample : 50/100 CURVE SV-2512
Misc : ISTD#SV-2532
MS Integration Params: rteint.p
Quant Time: Jan 7 13:31 2015

Vial: 12
Operator: AJG
Inst : S972R
Multiplr: 1.00
Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



TIC: R_0028.D

8270 SVOC
Continuing Calibration Data

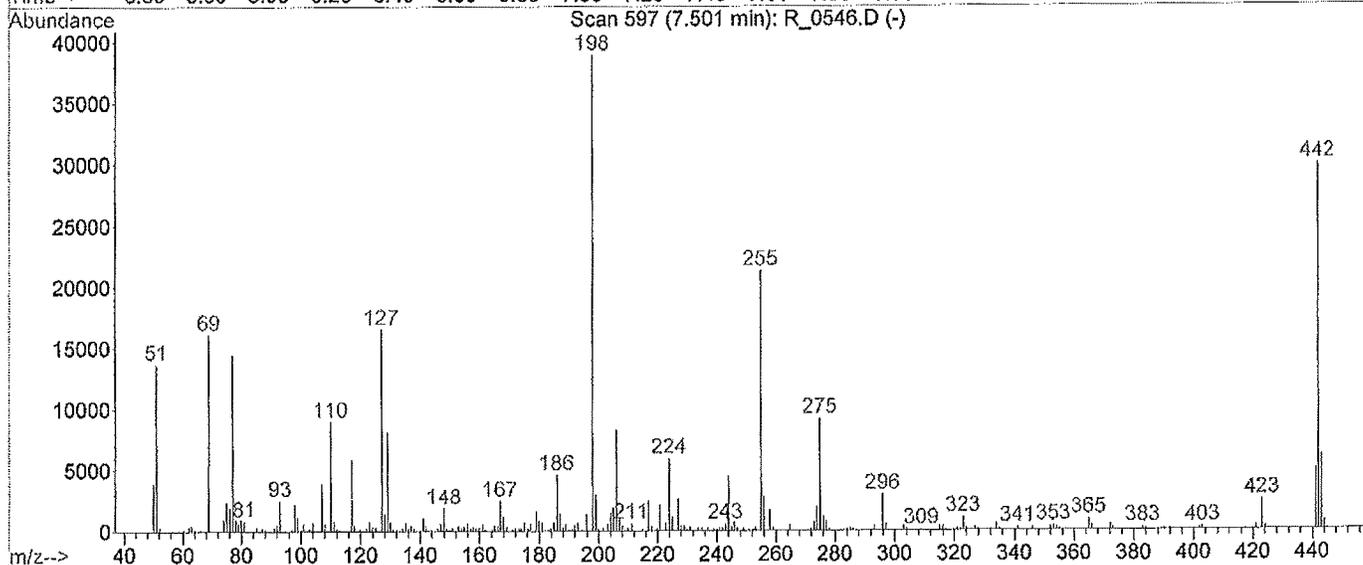
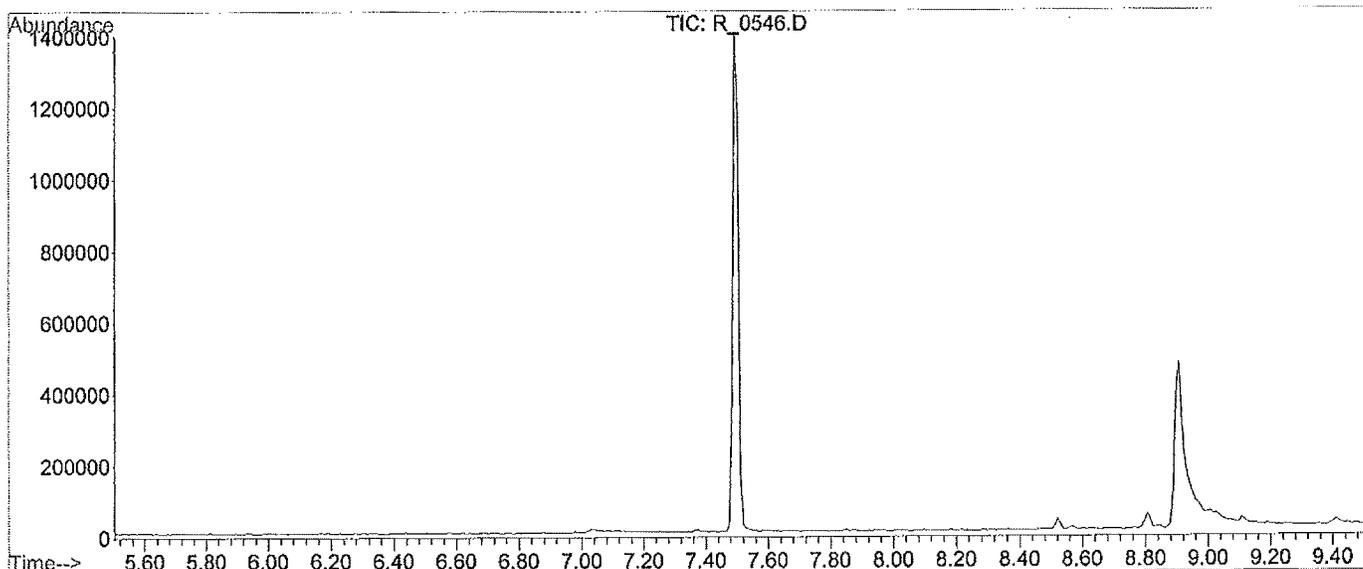
- Tune
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary



Section 3

DFTPP

Data File : C:\HPCHEM\1\DATA\013115\R_0546.D Vial: 2
 Acq On : 1 Feb 2015 8:11 pm Operator: AJG
 Sample : DFTPP SV-2557 Inst : 5972R
 Misc : ISTD#SV-2462 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270



Spectrum Information: Scan 597

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.1	13669	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.4	16104	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	42.4	16521	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	38921	PASS
199	198	5	9	7.6	2973	PASS
275	198	10	31	23.6	9170	PASS
365	198	1	100	2.3	911	PASS
441	443	0.01	100	82.4	5007	PASS
442	198	40	100	76.7	29867	PASS
443	442	17	23	20.3	6077	PASS

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\013115\R_0547.D

Tune Time : 1 Feb 2015 8:28 pm

Daily Calibration File : C:\HPCHEM\1\DATA\013115\R_0547.D

181470 748977 374674

618753 497910 314822

File	Sample	Surrogate	Recovery %	Internal Standard	Responses
R_0547.D	40/80 C	101	108* 109	181470	748977 374674
			618753	497910	314822
R_0548.D	PREP BLK	55	59 97	184635	721051 398802
			660777	419739	282981
R_0549.D	LCS1 PS4	65	65 107	166588	700535 410775
			695691	436738	265078
R_0550.D	LCS2 PS	71	74 103	165233	712273 378567
			629646	450207	284226
R_0564.D	15-1561	54	54 93	170772	714053 380270
			616659	403538	268578
R_0565.D	15-1562	68	68 89	166219	660725 382906
			625232	516238	328626
R_0566.D	15-1563	36	42 63	176713	699148 380946
			622203	430190	309620
R_0567.D	15-1564	55	58 87	149472	612588 339625
			541785	330743	219211
R_0568.D	15-1565	44	52 94	160511	662287 352859
			563640	358834	238769
R_0569.D	15-1566	55	61 89	149739	596850 329423
			551546	335880	226025

t - fails 12hr time check * - fails criteria

Created: Tue Feb 03 11:40:33 2015 5972R

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\013115\R_0547.D
 Acq On : 1 Feb 2015 8:28 pm
 Sample : 40/80 CCV SV-2547
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p

Vial: 3
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I 1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	96	-0.03
2 I Naphthalene-d8 (IS)	1.000	1.000	0.0	101	-0.03
3 S Nitrobenzene-d5 (SURR)	0.407	0.412	-1.2	97	-0.03
4 CMT Naphthalene	1.001	1.040	-3.9	104	-0.04
5 CMT 2-Methylnaphthalene	0.509	0.554	-8.8	104	-0.03
6 CMT 1-Methylnaphthalene	0.612	0.632	-3.3	103	-0.04
7 I Acenaphthene-d10 (IS)	1.000	1.000	0.0	94	-0.03
8 S 2-Fluorobiphenyl (SURR)	1.285	1.394	-8.5	112	-0.03
9 CMT Acenaphthylene	1.898	1.872	1.4	95	-0.04
10 CMT Acenaphthene	1.123	1.166	-3.8	100	-0.03
11 CMT Fluorene	1.271	1.342	-5.6	93	-0.03
12 I Phenanthrene-d10 (IS)	1.000	1.000	0.0	88	-0.03
13 CMT Phenanthrene	1.125	1.161	-3.2	91	-0.03
14 CMT Anthracene	1.157	1.179	-1.9	87	-0.03
15 CMT Fluoranthene	1.167	1.030	11.7	74	-0.03
16 I Chrysene-d12 (IS)	1.000	1.000	0.0	80	-0.03
17 CMT Pyrene	1.292	1.286	0.5	73	-0.03
18 S p-Terphenyl-d14 (SURR)	0.847	0.921	-8.7	84	-0.04
19 CMT Benzo(a)anthracene	1.060	1.001	5.6	75	-0.03
20 CMT Chrysene	1.004	0.965	3.9	76	-0.03
21 I Perylene-d12 (IS)	1.000	1.000	0.0	81	-0.03
22 CMT Benzo(b)fluoranthene	1.257	1.332	-6.0	80	-0.03
23 CMT Benzo(k)fluoranthene	1.404	1.439	-2.5	80	-0.03
24 CMT Benzo(a)pyrene	1.242	1.280	-3.1	80	-0.03
25 CMT Indeno(1,2,3-cd)pyrene	1.264	1.227	2.9	80	0.00
26 CMT Dibenz(a,h)anthracene	1.035	1.037	-0.2	83	-0.03
27 CMT Benzo(g,h,i)perylene	1.066	0.983	7.8	77	-0.02

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0547.D
 Acq On : 1 Feb 2015 8:28 pm
 Sample : 40/80 CCV SV-2547
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Feb 2 8:21 2015

Vial: 3
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	181470	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	748977	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	374674	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.98	188	618753	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.60	240	497910	40.00	ug/mL	-0.03
21) Perylene-d12 (IS)	16.26	264	314822	40.00	ug/mL	-0.03

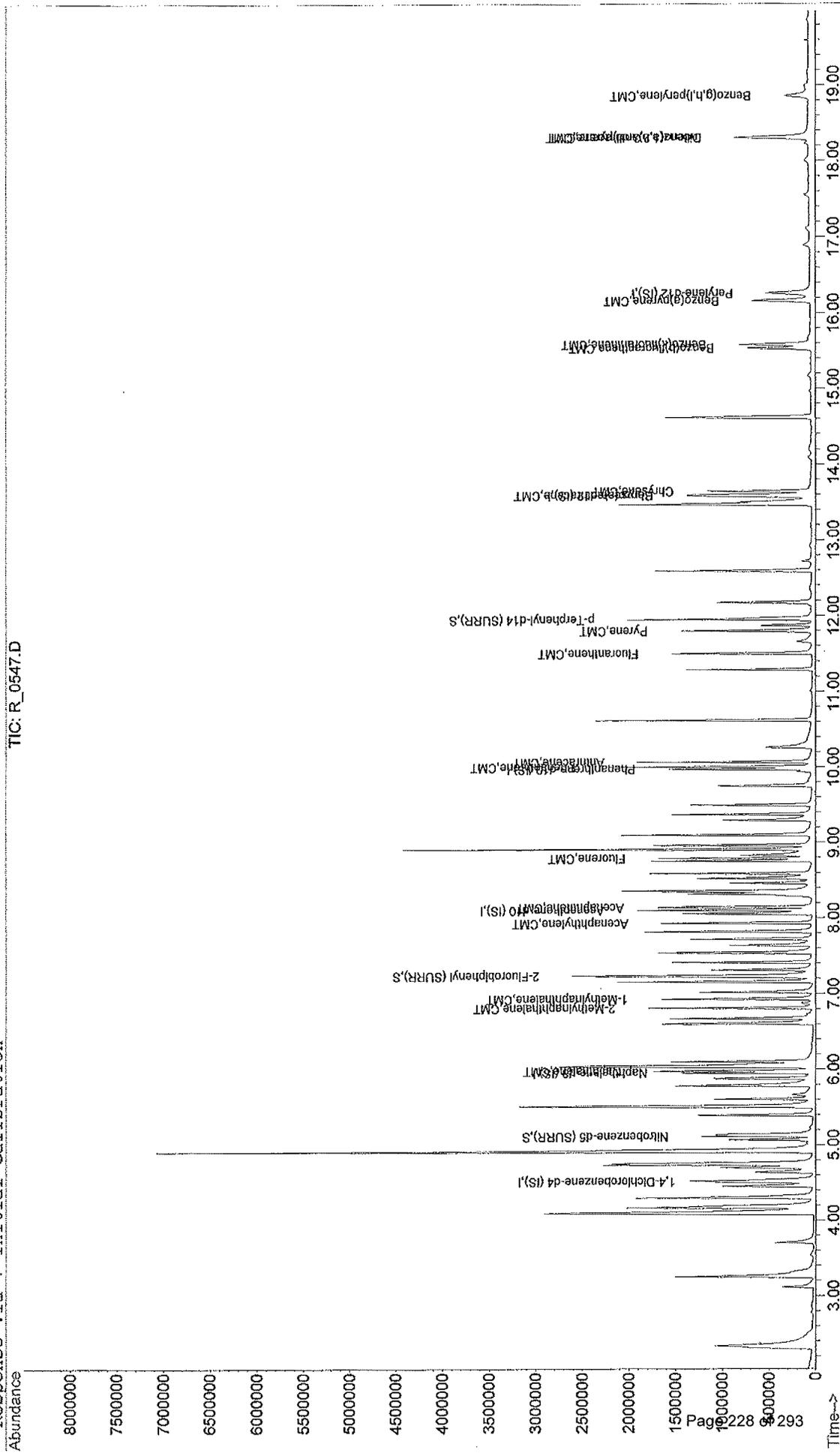
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.11	82	385409	50.52	ug/mL	-0.03
Spiked Amount 50.000	Range 11 - 104		Recovery = 101.04%			
8) 2-Fluorobiphenyl (SURR)	7.24	172	652976	54.24	ug/mL	-0.03
Spiked Amount 50.000	Range 11 - 104		Recovery = 108.48%#			
18) p-Terphenyl-d14 (SURR)	11.95	244	573316	54.37	ug/mL	-0.04
Spiked Amount 50.000	Range 26 - 136		Recovery = 108.74%			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	5.98	128	779288	41.56	ug/mL	99
5) 2-Methylnaphthalene	6.81	141	415036	43.55	ug/mL	97
6) 1-Methylnaphthalene	6.93	142	473557	41.32	ug/mL	100
9) Acenaphthylene	7.93	152	701203	39.44	ug/mL	100
10) Acenaphthene	8.15	154	436921	41.53	ug/mL	99
11) Fluorene	8.79	166	502789	42.22	ug/mL	100
13) Phenanthrene	10.01	178	718552	41.30	ug/mL	100
14) Anthracene	10.07	178	729677	40.75	ug/mL	98
15) Fluoranthene	11.50	202	637548	35.30	ug/mL	98
17) Pyrene	11.80	202	640115	39.82	ug/mL	98
19) Benzo(a)anthracene	13.58	228	498653	37.79	ug/mL	99
20) Chrysene	13.65	228	480626	38.44	ug/mL	98
22) Benzo(b)fluoranthene	15.54	252	419279m	42.39	ug/mL	
23) Benzo(k)fluoranthene	15.58	252	452934	40.98	ug/mL	97
24) Benzo(a)pyrene	16.16	252	402935	41.22	ug/mL	96
25) Indeno(1,2,3-cd)pyrene	18.32	276	386369	38.85	ug/mL	94
26) Dibenz(a,h)anthracene	18.31	278	326350	40.05	ug/mL	90
27) Benzo(g,h,i)perylene	18.86	276	309429m	36.88	ug/mL	

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0131115\R_0547.D
 Acq On : 1 Feb 2015 8:28 pm
 Sample : 40/80 CCV SV-2547
 Misc : ISTD#SV-2532
 MS Integration Params: rteint.p
 Quant Time: Feb 2 8:21 2015
 Vial: 3
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00
 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration

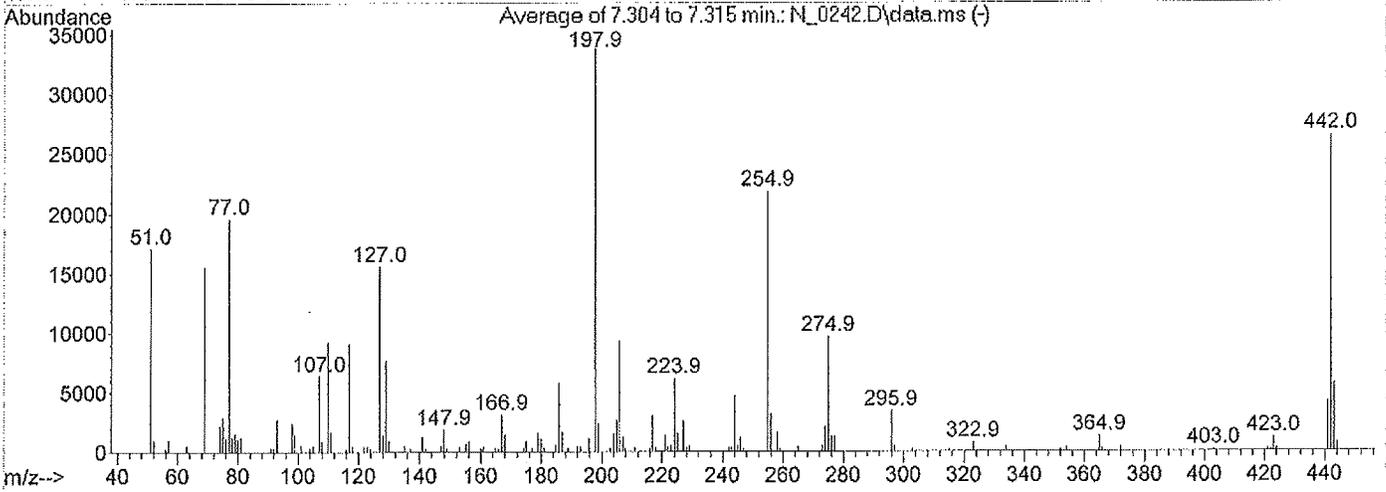
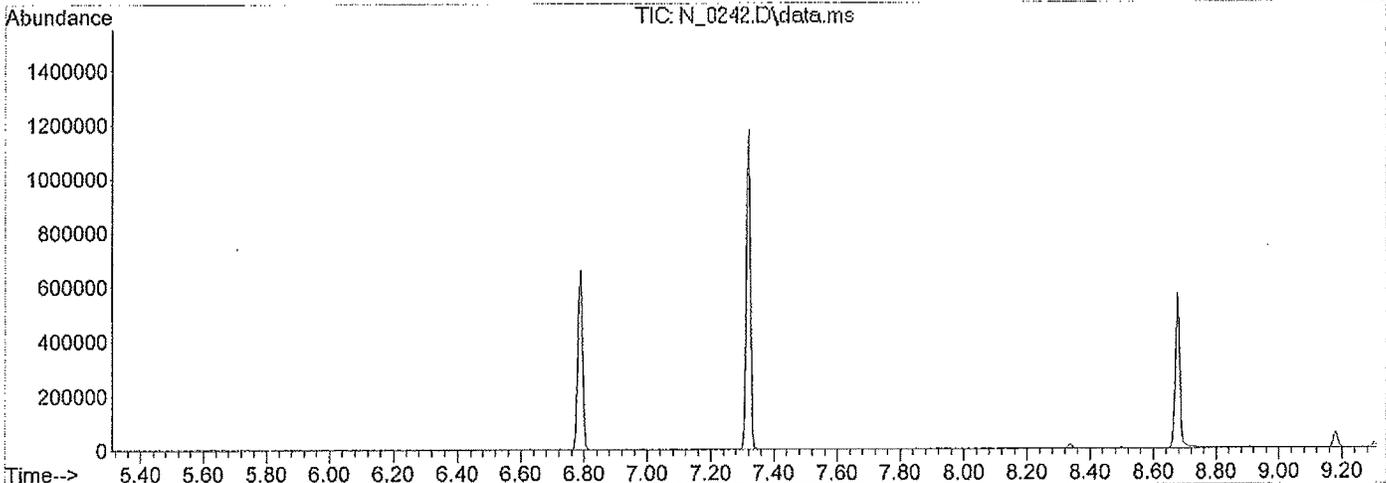


TIC: R_0547.D

Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0242.D
 Acq On : 29 Jan 2015 4:03 pm
 Operator : AJG
 Sample : DFTPP SV-2557
 Misc : ISTD# SV-2520
 ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\111814LV.M
 Title :
 Last Update : Wed Nov 19 09:20:15 2014



Spectrum Information: Average of 7.304 to 7.315 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.7	17150	PASS
68	69	0.00	3	0.0	0	PASS
69	198	0.00	100	46.1	15597	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	46.2	15625	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	33811	PASS
199	198	5	9	7.2	2447	PASS
275	198	10	30	28.6	9679	PASS
365	198	1	100	3.8	1287	PASS
441	443	0.01	100	72.4	4139	PASS
442	198	40	100	78.2	26433	PASS
443	442	17	24	21.6	5719	PASS

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\012915\N_0244.D
 Tune Time : 29 Jan 2015 4:33 pm

Daily Calibration File : C:\msdchem\1\DATA\012915\N_0244.D

900089 407289 341330

522222 470343

File Sample Surrogate Recovery % Internal Standard Responses

N_0245.D
 PREP BLK 98 45 76 1114825 336378 269156
 369743 311165

N_0246.D
 LCS1 PW1 94 87 87 521171 324263 220846
 360679 298296

N_0247.D
 LCS2 PW1 110 57 74 681241 323493 223083
 366488 300110

(fails) - fails 12hr time check * - fails criteria

Created: Tue Feb 03 12:58:23 2015 5973i

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0244.D
 Acq On : 29 Jan 2015 4:33 pm
 Operator : AJG
 Sample : 2.5/5.0 CCV /SV-2557
 Misc : ISTD# SV-2520
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 29 16:54:27 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8	1.000	1.000	0.0	101	-0.03
2 S	Nitrobenzene-d5 (SURR)	0.374	0.399	-6.7	104	-0.03
3 T	Naphthalene	1.440	1.559	-8.3	130	-0.03
4 t	2-Methylnaphthalene	1.390	1.484	-6.8	130	-0.03
5 t	1-Methylnaphthalene	1.376	1.146	16.7	102	-0.03
6 S	2-Fluorobiphenyl (SURR)	0.616	0.542	12.0	90	-0.03
7 T	Acenaphthylene	1.236	1.211	2.0	112	-0.03
8 I	Acenaphthene-d8	1.000	1.000	0.0	85	-0.03
9 T	Acenaphthene	1.571	1.271	19.1	82	-0.03
10	Fluorene	2.150	1.820	15.3	90	-0.03
11 I	Phenathrene-d10	1.000	1.000	0.0	71	-0.03
12	Phenanthrene	1.426	1.278	10.4	81	-0.03
13	Anthracene	1.106	0.982	11.2	70	-0.03
14	Fluoranthene	1.893	1.885	0.4	77	-0.03
15	Pyrene	1.895	1.833	3.3	74	-0.03
16 S	p-Terphenyl-d14 (SURR)	1.045	1.143	-9.4	72	-0.04
17	Benzo(a)Anthracene	1.813	1.844	-1.7	74	-0.04
18 I	Chrysene-d12	1.000	1.000	0.0	72	-0.04
19 T	Chrysene	1.334	1.080	19.0	73	-0.04
20	Benzo(b)Fluoranthene	1.220	1.287	-5.5	91	-0.06
21	Benzo(k)Fluoranthene	1.207	1.434	-18.8	109	-0.06
22	Benzo(a)Pyrene	0.937	0.986	-5.2	85	-0.06
23 I	Perylene-d12	1.000	1.000	0.0	114	-0.06
24	Indeno(1,2,3-cd)Pyrene	1.528	1.769	-15.8	148	-0.08
25	Dibenz(ah)Anthracene	1.102	1.230	-11.6	141	-0.08
26	Benzo(ghi)Perylene	1.467	1.694	-15.5	155	-0.08

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

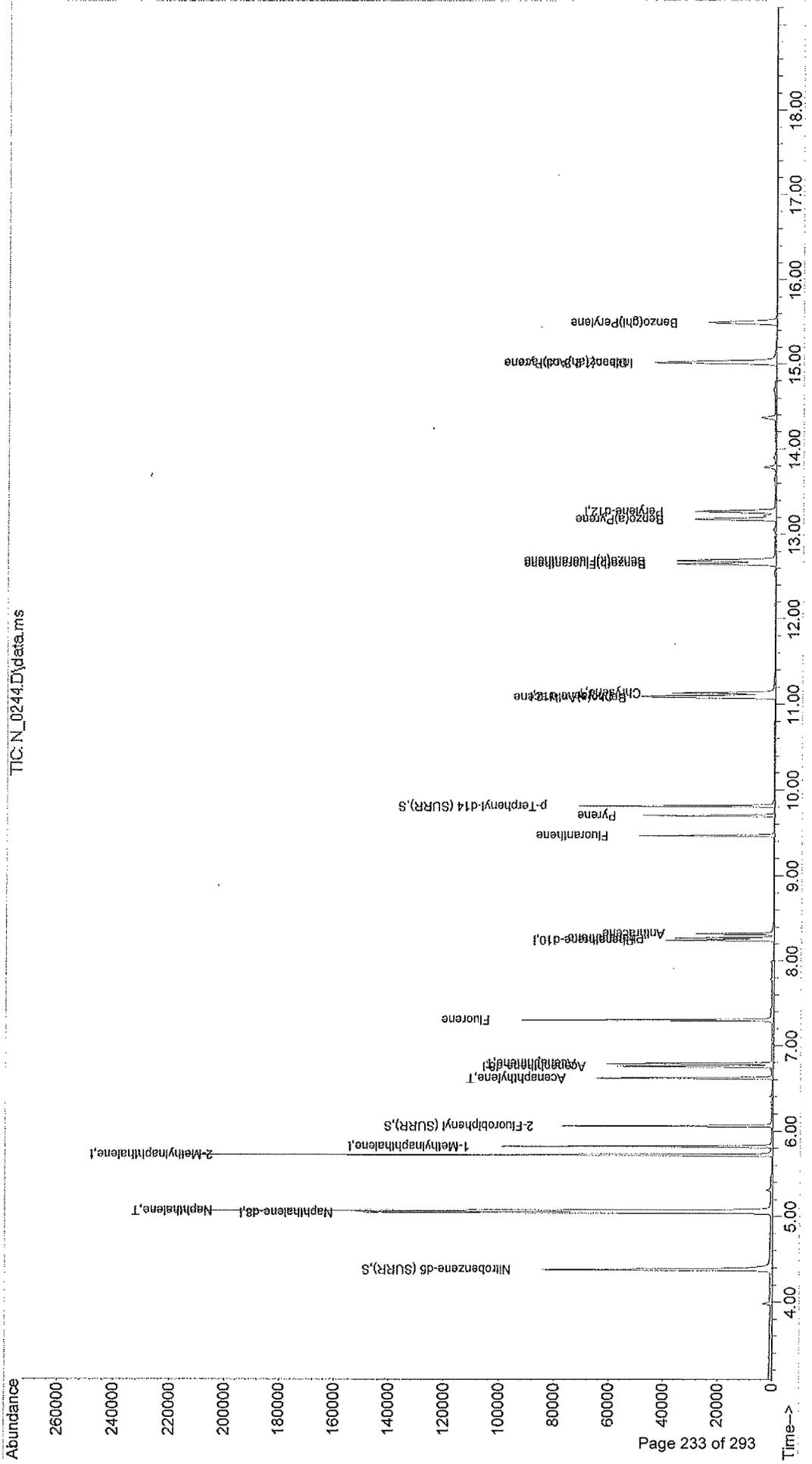
Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0244.D
 Acq On : 29 Jan 2015 4:33 pm
 Operator : AJG
 Sample : 2.5/5.0 CCV /SV-2557
 Misc : ISTD# SV-2520
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 29 16:54:27 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8	5.045	136	900089m	4.00	ug/mL	-0.03	
8) Acenaphthene-d8	6.756	162	407289	4.00	ug/mL	-0.03	
11) Phenathrene-d10	8.246	188	341330	4.00	ug/mL	-0.03	
18) Chrysene-d12	11.097	240	522222m	4.00	ug/mL	-0.04	
23) Perylene-d12	13.270	264	470343m	4.00	ug/mL	-0.06	
System Monitoring Compounds							
2) Nitrobenzene-d5 (SURR)	4.378	82	449118m	5.34	ug/L	-0.03	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	106.80%	
6) 2-Fluorobiphenyl (SURR)	6.060	172	609303	4.40	ug/L	-0.03	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	88.00%	
16) p-Terphenyl-d14 (SURR)	9.811	244	487682m	5.47	ug/L	-0.04	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	109.40%	
Target Compounds							
3) Naphthalene	5.066	128	1754523	5.42	ug/L		99
4) 2-Methylnaphthalene	5.721	142	1669322m	5.34	ug/L		
5) 1-Methylnaphthalene	5.819	142	644521m	2.08	ug/L		
7) Acenaphthylene	6.617	152	681279m	2.45	ug/L		
9) Acenaphthene	6.788	153	323555	2.02	ug/L		91
10) Fluorene	7.302	166	463176m	2.12	ug/L		
12) Phenanthrene	8.268	178	272704m	2.24	ug/L		
13) Anthracene	8.321	178	209566	2.22	ug/L		96
14) Fluoranthene	9.467	202	402048m	2.49	ug/L		
15) Pyrene	9.703	202	391038	2.42	ug/L	#	92
17) Benzo(a)Anthracene	11.081	228	393457m	2.54	ug/L		
19) Chrysene	11.133	228	352532	2.02	ug/L		93
20) Benzo(b)Fluoranthene	12.653	252	420047m	2.64	ug/L		
21) Benzo(k)Fluoranthene	12.692	252	468097m	2.97	ug/L		
22) Benzo(a)Pyrene	13.178	252	321846m	2.63	ug/L		
24) Indeno(1,2,3-cd)Pyrene	15.014	276	520090m	2.89	ug/L		
25) Dibenz(ah)Anthracene	15.023	278	361627m	2.79	ug/L		
26) Benzo(ghi)Perylene	15.495	276	497929	2.89	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

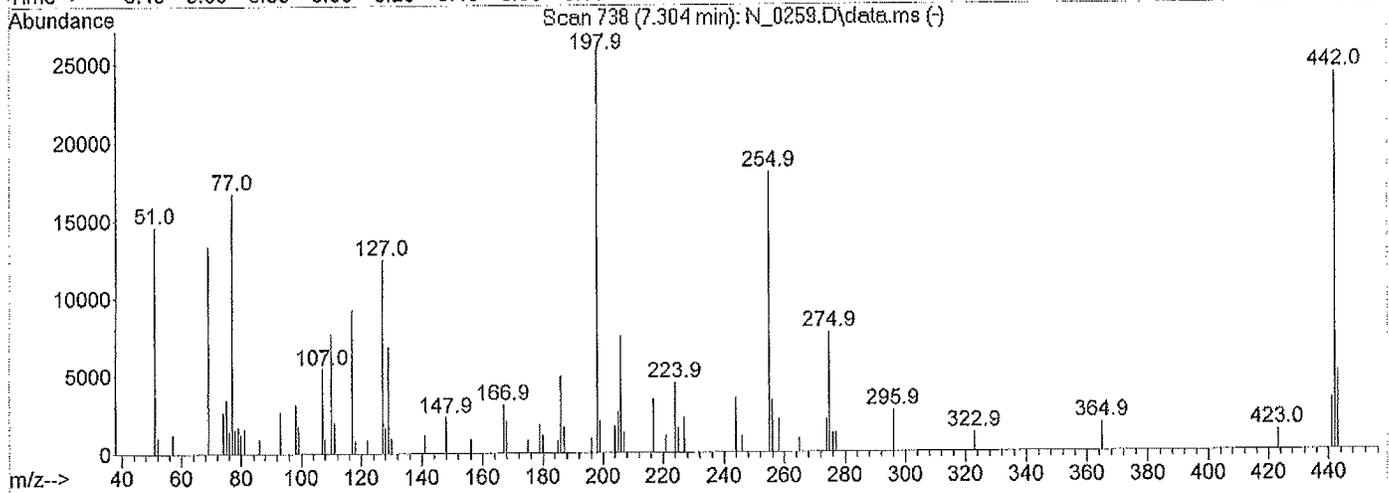
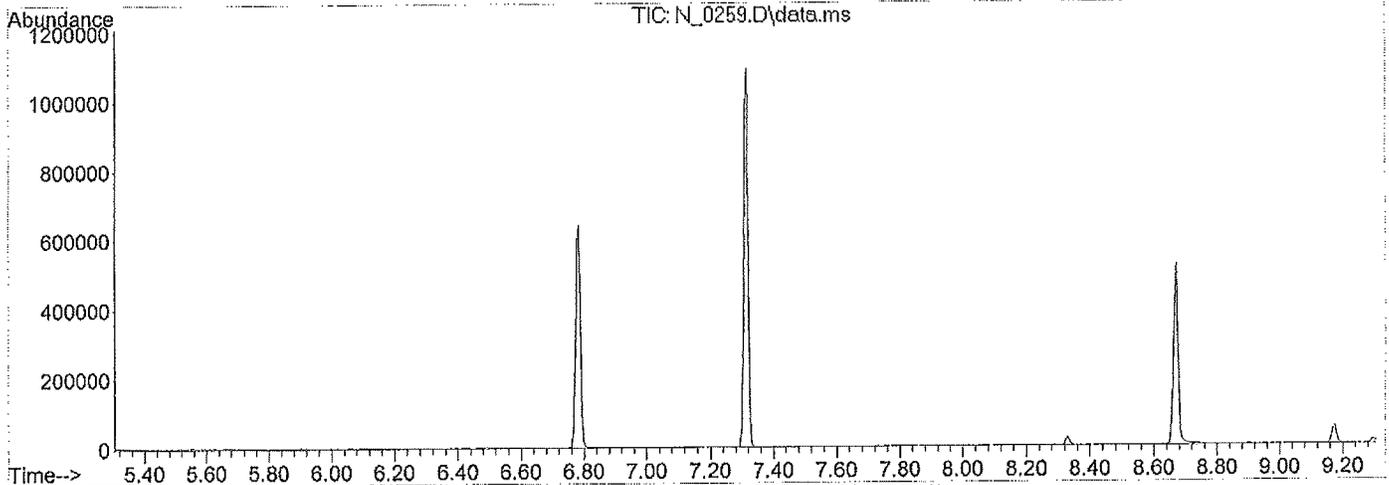
Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0244.D
 Acq On : 29 Jan 2015 4:33 pm
 Operator : AJG
 Sample : 2.5/5.0 CCV /SV-2557
 Misc : ISTD# SV-2520
 ALS Vial : 2 Sample Multiplier: 1
 Quant Time: Jan 29 16:54:27 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0259.D
 Acq On : 30 Jan 2015 9:47 am
 Operator : AJG
 Sample : DFTPP SV-2557
 Misc : ISTD# SV-2520
 ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\111814LV.M
 Title :
 Last Update : Wed Nov 19 09:20:15 2014



Spectrum Information: Scan 738

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.5	14587	PASS
68	69	0.00	3	0.0	0	PASS
69	198	0.00	100	51.9	13393	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.3	12470	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	25803	PASS
199	198	5	9	8.0	2066	PASS
275	198	10	30	29.8	7698	PASS
365	198	1	100	7.1	1824	PASS
441	443	0.01	100	65.3	3317	PASS
442	198	40	100	93.6	24161	PASS
443	442	17	24	21.0	5080	PASS

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\012915\N_0260.D

Tune Time : 30 Jan 2015 10:03 am

Daily Calibration File : C:\msdchem\1\DATA\012915\N_0260.D

995312 392900 307168

457140 438718

File	Sample	Surrogate Recovery %			Internal Standard Responses		
N_0266.D	15-1567	107	47	73	1094471	309163	255974
			468409		382536		
N_0267.D	15-1568	92	37	73	974970	280204	210944
			336040		285158		
N_0268.D	15-1569	83	40	69	958146	292741	232963
			310840		245157		
N_0269.D	15-1570	78	34	66	945976	273744	214538
			309843		243780		
N_0270.D	15-1571	73	33	61	1107729	335714	283354
			417721		331510		

(fails) - fails 12hr time check * - fails criteria

Created: Tue Feb 03 12:59:49 2015 5973i

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0260.D
 Acq On : 30 Jan 2015 10:03 am
 Operator : AJG
 Sample : 2.5/5.0 CCV /SV-2557
 Misc : ISTD# SV-2520
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 10:37:59 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8	1.000	1.000	0.0	112	-0.03
2 S	Nitrobenzene-d5 (SURR)	0.374	0.407	-8.8	117	-0.03
3 T	Naphthalene	1.440	1.395	3.1	129	-0.03
4 t	2-Methylnaphthalene	1.390	1.352	2.7	131	-0.03
5 t	1-Methylnaphthalene	1.376	1.155	16.1	114	-0.03
6 S	2-Fluorobiphenyl (SURR)	0.616	0.524	14.9	97	-0.03
7 T	Acenaphthylene	1.236	1.041	15.8	107	-0.03
8 I	Acenaphthene-d8	1.000	1.000	0.0	82	-0.03
9 T	Acenaphthene	1.571	1.547	1.5	96	-0.03
10	Fluorene	2.150	1.883	12.4	90	-0.03
11 I	Phenathrene-d10	1.000	1.000	0.0	64	-0.03
12	Phenanthrene	1.426	1.228	13.9	70	-0.03
13	Anthracene	1.106	0.996	9.9	64	-0.03
14	Fluoranthene	1.893	1.927	-1.8	71	-0.04
15	Pyrene	1.895	1.859	1.9	67	-0.04
16 S	p-Terphenyl-d14 (SURR)	1.045	1.168	-11.8	66	-0.04
17	Benzo(a)Anthracene	1.813	1.721	5.1	63	0.00
18 I	Chrysene-d12	1.000	1.000	0.0	63	-0.05
19 T	Chrysene	1.334	1.157	13.3	69	-0.05
20	Benzo(b)Fluoranthene	1.220	1.232	-1.0	76	-0.06
21	Benzo(k)Fluoranthene	1.207	1.298	-7.5	86	-0.07
22	Benzo(a)Pyrene	0.937	0.995	-6.2	75	-0.07
23 I	Perylene-d12	1.000	1.000	0.0	107	-0.06
24	Indeno(1,2,3-cd)Pyrene	1.528	1.558	-2.0	122	-0.08
25	Dibenz(ah)Anthracene	1.102	1.061	3.7	114	-0.08
26	Benzo(ghi)Perylene	1.467	1.526	-4.0	130	-0.09

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0260.D
 Acq On : 30 Jan 2015 10:03 am
 Operator : AJG
 Sample : 2.5/5.0 CCV /SV-2557
 Misc : ISTD# SV-2520
 ALS Vial : 2 Sample Multiplier: 1

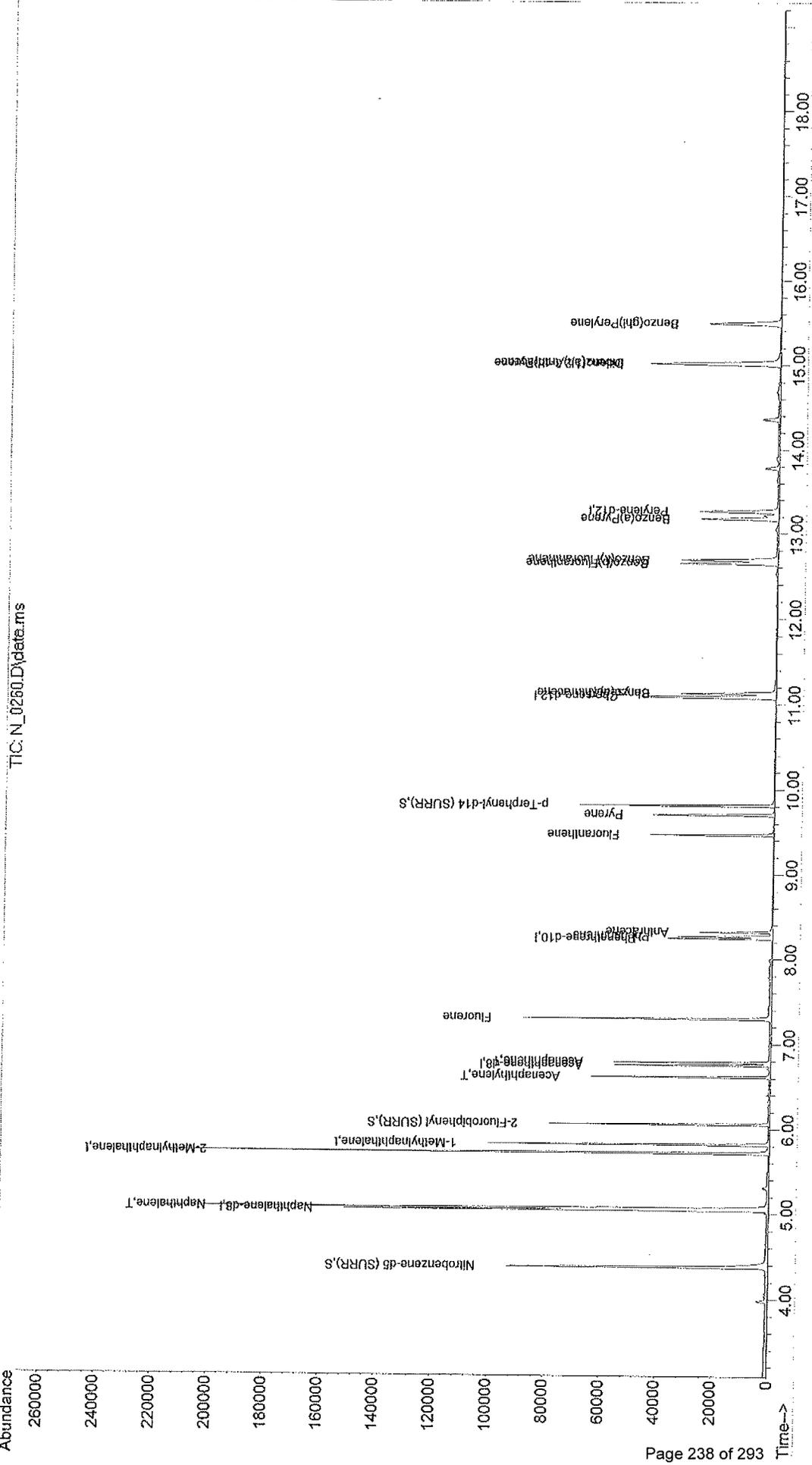
Quant Time: Jan 31 10:37:59 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8	5.044	136	995312m	4.00	ug/mL	-0.03	
8) Acenaphthene-d8	6.755	162	392900	4.00	ug/mL	-0.03	
11) Phenathrene-d10	8.245	188	307168	4.00	ug/mL	-0.03	
18) Chrysene-d12	11.095	240	457140	4.00	ug/mL	-0.05	
23) Perylene-d12	13.266	264	438718m	4.00	ug/mL	-0.06	
System Monitoring Compounds							
2) Nitrobenzene-d5 (SURR)	4.376	82	506185m	5.44	ug/L	-0.03	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	108.80%	
6) 2-Fluorobiphenyl (SURR)	6.058	172	651965m	4.26	ug/L	-0.03	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	85.20%	
16) p-Terphenyl-d14 (SURR)	9.811	244	448497m	5.59	ug/L	-0.04	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	111.80%	
Target Compounds							
3) Naphthalene	5.065	128	1735522	4.85	ug/L		Qvalue 100
4) 2-Methylnaphthalene	5.719	142	1682587m	4.87	ug/L		
5) 1-Methylnaphthalene	5.819	142	718779m	2.10	ug/L		
7) Acenaphthylene	6.616	152	647478m	2.11	ug/L		
9) Acenaphthene	6.787	153	379783m	2.46	ug/L		
10) Fluorene	7.299	166	462384m	2.19	ug/L		
12) Phenanthrene	8.268	178	235834	2.15	ug/L		94
13) Anthracene	8.321	178	191138	2.25	ug/L	#	70
14) Fluoranthene	9.465	202	369917m	2.55	ug/L		
15) Pyrene	9.701	202	356976	2.45	ug/L	#	92
17) Benzo(a)Anthracene	11.130	228	330357	2.37	ug/L		93
19) Chrysene	11.130	228	330643	2.17	ug/L		94
20) Benzo(b)Fluoranthene	12.649	252	352135m	2.53	ug/L		
21) Benzo(k)Fluoranthene	12.687	252	370806m	2.69	ug/L		
22) Benzo(a)Pyrene	13.177	252	284382m	2.66	ug/L		
24) Indeno(1,2,3-cd)Pyrene	15.012	276	427274m	2.55	ug/L		
25) Dibenz(ah)Anthracene	15.019	278	290868m	2.41	ug/L		
26) Benzo(ghi)Perylene	15.488	276	418314m	2.60	ug/L		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\012915\
Data File : N_0260.D
Acq On : 30 Jan 2015 10:03 am
Operator : AJG
Sample : 2.5/5.0 CCV /SV-2557
Misc : ISID# SV-2520
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 10:37:59 2015
Quant Method : C:\msdchem\1\METHODS\111814LV.M
Quant Title :
QLast Update : Wed Nov 19 09:20:15 2014
Response via : Initial Calibration



TIC: N_0260.D\data.ms

8270 SVOC
Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0548.D
 Acq On : 1 Feb 2015 8:54 pm
 Sample : PREP BLK PS4 1-28 /SV-2564
 Misc : PB#012815PS4 30G1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:32 2015

Vial: 21
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	184635	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	721051	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	398802	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	660777	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.59	240	419739	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.27	264	282981	40.00	ug/mL	-0.02

System Monitoring Compounds

3) Nitrobenzene-d5 (SURR)	5.13	82	200853	27.35	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	54.70%		
8) 2-Fluorobiphenyl (SURR)	7.24	172	378263	29.52	ug/mL	-0.03
Spiked Amount 50.000	Range 11 - 104		Recovery =	59.04%		
18) p-Terphenyl-d14 (SURR)	11.95	244	430577m	48.44	ug/mL	-0.04
Spiked Amount 50.000	Range 26 - 136		Recovery =	96.88%		

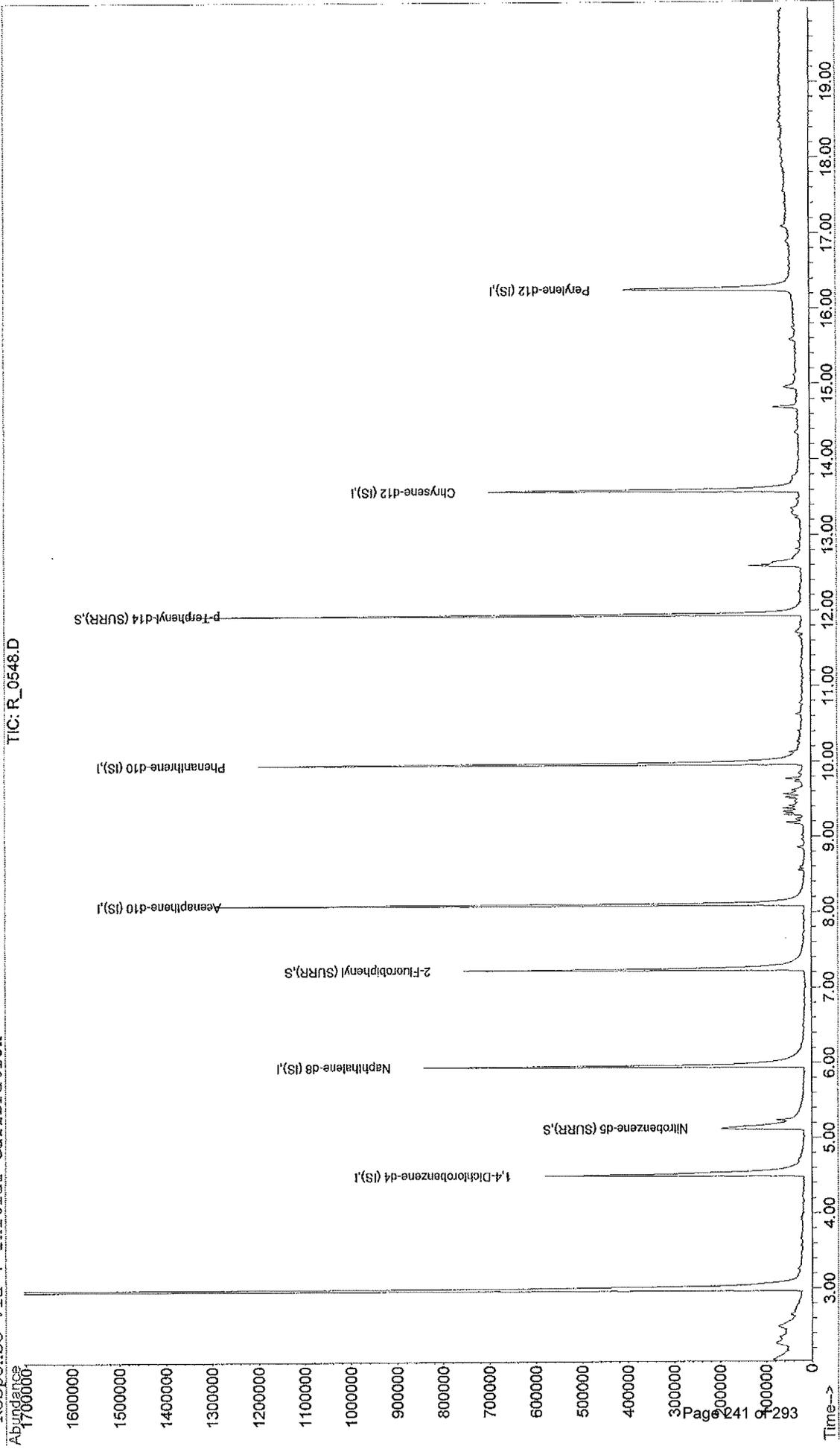
Target Compounds

Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0131115\R_0548.D
Acq On : 1 Feb 2015 8:54 pm Vial: 21
Sample : PREP BLK PS4 1-28 /SV-2564 Operator: AJG
Misc : PB#012815PS4 30G1.0ML Inst : 5972R
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Feb 2 9:32 2015 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0549.D
 Acq On : 1 Feb 2015 9:20 pm
 Sample : LCS1 PS4 1-28 /SV-2565
 Misc : PB#012815PS4 30G1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:32 2015

Vial: 22
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	166588	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.96	136	700535	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.11	164	410775	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	695691	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.59	240	436738	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.26	264	265078	40.00	ug/mL	-0.03

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.13	82	231023	32.38	ug/mL	0.00
Spiked Amount	50.000	Range	11 - 104	Recovery	=	64.76%
8) 2-Fluorobiphenyl (SURR)	7.24	172	431364	32.68	ug/mL	-0.03
Spiked Amount	50.000	Range	11 - 104	Recovery	=	65.36%
18) p-Terphenyl-d14 (SURR)	11.95	244	497051	53.74	ug/mL	-0.04
Spiked Amount	50.000	Range	26 - 136	Recovery	=	107.48%

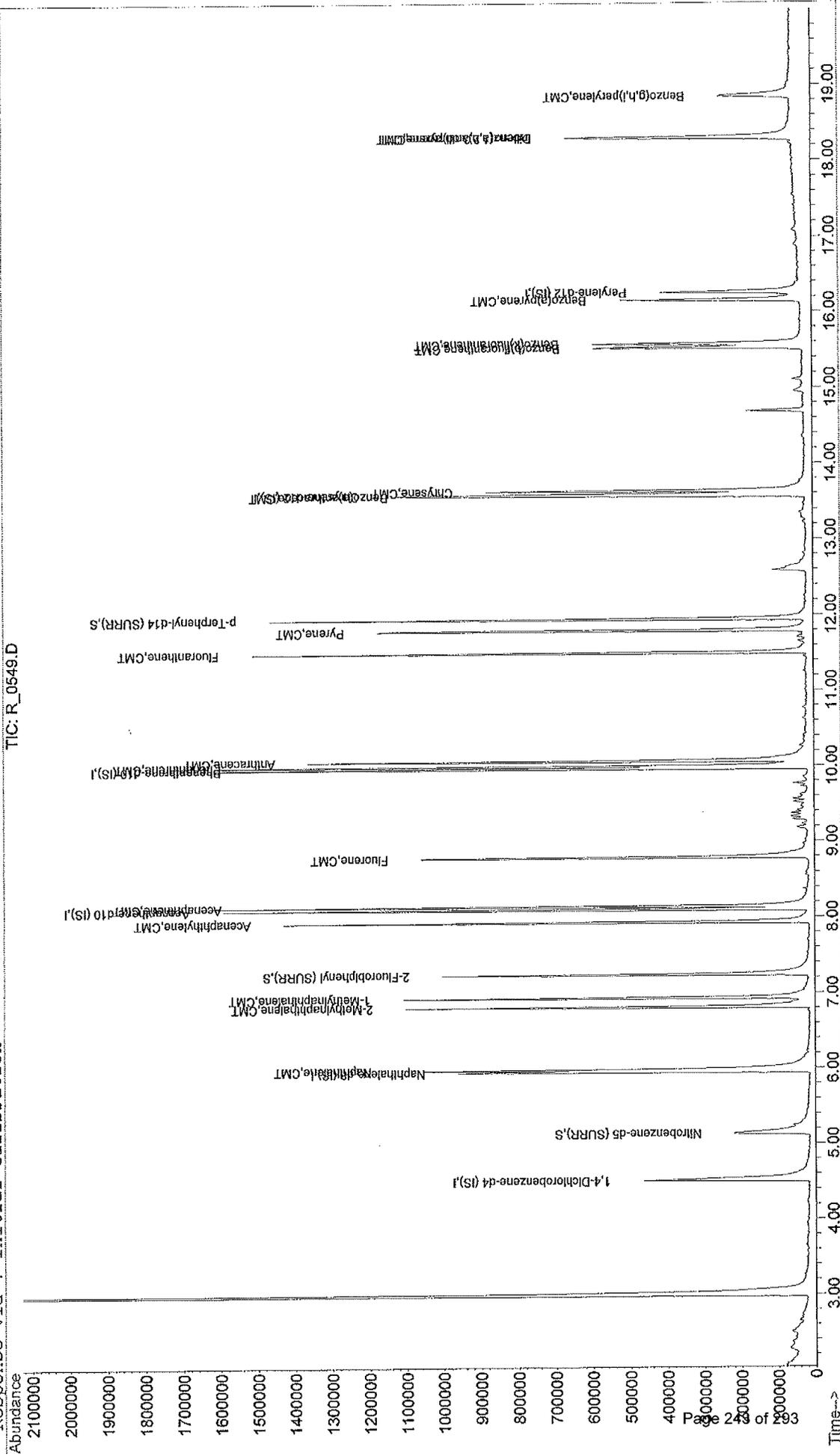
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	5.98	128	614949	35.06	ug/mL	99
5) 2-Methylnaphthalene	6.81	141	321233	36.04	ug/mL	97
6) 1-Methylnaphthalene	6.93	142	404145	37.70	ug/mL	97
9) Acenaphthylene	7.93	152	670510	34.40	ug/mL	99
10) Acenaphthene	8.14	154	425116	36.85	ug/mL	99
11) Fluorene	8.79	166	496471	38.03	ug/mL	98
13) Phenanthrene	10.01	178	754814	38.59	ug/mL	99
14) Anthracene	10.07	178	747159	37.11	ug/mL	98
15) Fluoranthene	11.50	202	653195	32.17	ug/mL	96
17) Pyrene	11.80	202	635814	45.09	ug/mL	98
19) Benzo(a)anthracene	13.57	228	423351m	36.57	ug/mL	
20) Chrysene	13.64	228	430546	39.26	ug/mL	99
22) Benzo(b)fluoranthene	15.53	252	366524m	44.01	ug/mL	
23) Benzo(k)fluoranthene	15.58	252	371600	39.93	ug/mL	95
24) Benzo(a)pyrene	16.16	252	328043	39.86	ug/mL	96
25) Indeno(1,2,3-cd)pyrene	18.31	276	324501	38.75	ug/mL	95
26) Dibenz(a,h)anthracene	18.31	278	268985	39.21	ug/mL	89
27) Benzo(g,h,i)perylene	18.86	276	228020	32.28	ug/mL	93

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0131115\R_0549.D
 Acq On : 1 Feb 2015 9:20 pm
 Sample : LCS1 PS4 1-28 /SV-2565
 Misc : PB#012815PS4 30G1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:32 2015

Vial: 22
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00
 Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0550.D
 Acq On : 1 Feb 2015 9:47 pm
 Sample : LCS2 PS4 1-28 /SV-2565
 Misc : PB#012815PS4 30G1.0ML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:33 2015

Vial: 23
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.51	152	165233	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.95	136	712273	40.00	ug/mL	-0.04
7) Acenaphthene-d10 (IS)	8.11	164	378567	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	629646	40.00	ug/mL	-0.04
16) Chrysene-d12 (IS)	13.59	240	450207	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.26	264	284226	40.00	ug/mL	-0.03

System Monitoring Compounds						
3) Nitrobenzene-d5 (SURR)	5.13	82	259134	35.72	ug/mL	0.00
Spiked Amount	50.000	Range 11 - 104	Recovery =	71.44%		
8) 2-Fluorobiphenyl (SURR)	7.24	172	450664	37.05	ug/mL	-0.03
Spiked Amount	50.000	Range 11 - 104	Recovery =	74.10%		
18) p-Terphenyl-d14 (SURR)	11.95	244	489096	51.30	ug/mL	-0.04
Spiked Amount	50.000	Range 26 - 136	Recovery =	102.60%		

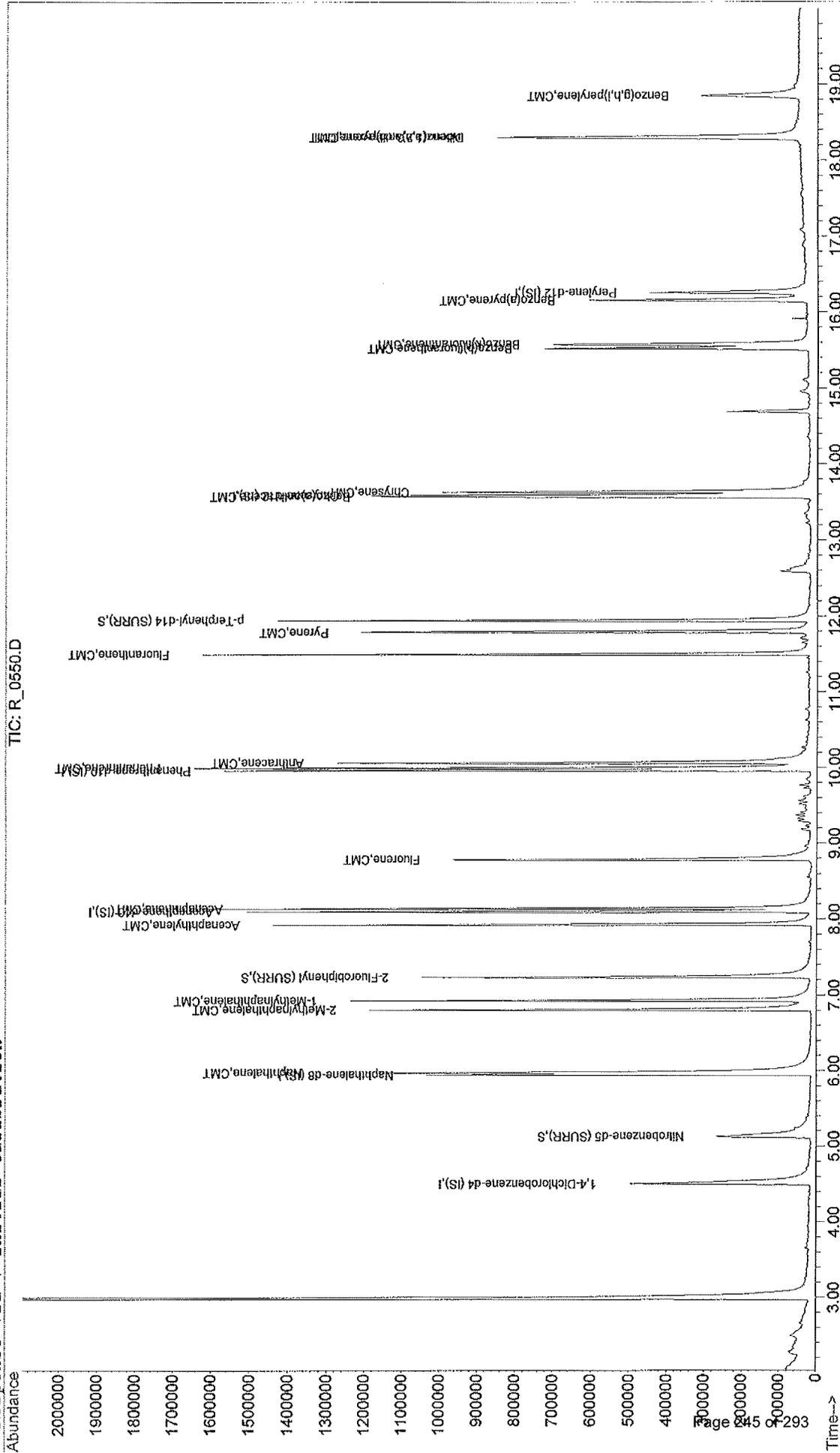
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	5.98	128	709229	39.77	ug/mL	96
5) 2-Methylnaphthalene	6.81	141	358534	39.56	ug/mL	94
6) 1-Methylnaphthalene	6.93	142	443149	40.66	ug/mL	98
9) Acenaphthylene	7.93	152	673613	37.50	ug/mL	99
10) Acenaphthene	8.14	154	430404	40.49	ug/mL	98
11) Fluorene	8.79	166	479675	39.87	ug/mL	98
13) Phenanthrene	10.01	178	727820	41.11	ug/mL	99
14) Anthracene	10.07	178	737944	40.50	ug/mL	99
15) Fluoranthene	11.50	202	683652	37.20	ug/mL	97
17) Pyrene	11.80	202	668623	46.00	ug/mL	98
19) Benzo(a)anthracene	13.57	228	488129m	40.91	ug/mL	
20) Chrysene	13.64	228	482484	42.68	ug/mL	99
22) Benzo(b)fluoranthene	15.53	252	425813m	47.68	ug/mL	
23) Benzo(k)fluoranthene	15.58	252	444643	44.56	ug/mL	96
24) Benzo(a)pyrene	16.16	252	398223	45.12	ug/mL	95
25) Indeno(1,2,3-cd)pyrene	18.31	276	400893	44.65	ug/mL	94
26) Dibenz(a,h)anthracene	18.31	278	332817	45.25	ug/mL	89
27) Benzo(g,h,i)perylene	18.85	276	289037	38.16	ug/mL	92

Quantitation Report

Data File : C:\HPCHEM\1\DATA\013115\R_0550.D
Acq On : 1 Feb 2015 9:47 pm
Sample : LCS2 PS4 1-28 /SV-2565
Misc : PB#012815PS4 30G1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:33 2015

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0245.D
 Acq On : 29 Jan 2015 4:59 pm
 Operator : AJG
 Sample : PREP BLK PW1 1-28 /SV-2552
 Misc : PB#012815PW1 40ML/2.0ML
 ALS Vial : 3 Sample Multiplier: 1

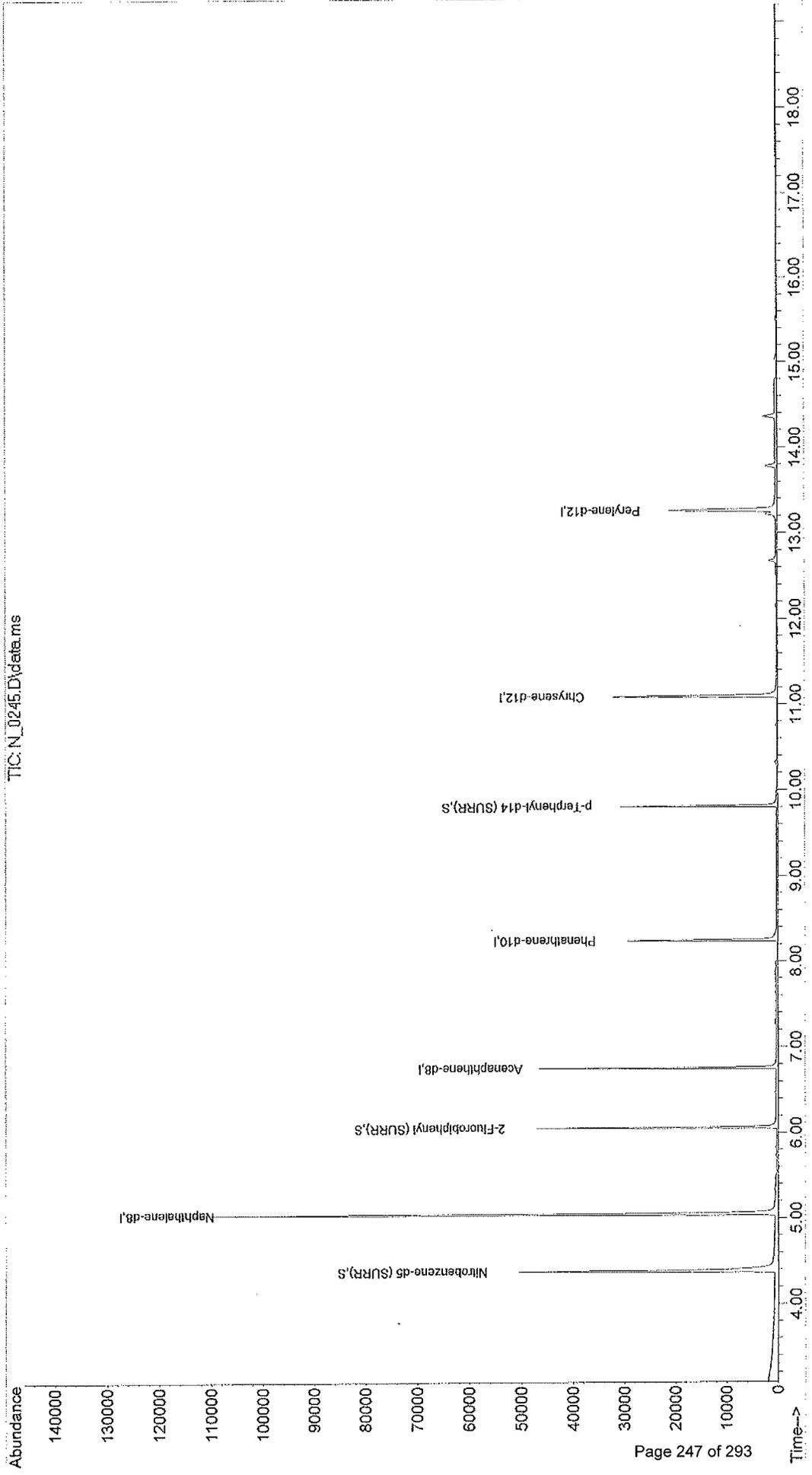
Quant Time: Jan 30 08:49:22 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.047	136	1114825	4.00	ug/mL	-0.03
8) Acenaphthene-d8	6.756	162	336378	4.00	ug/mL	-0.03
11) Phenathrene-d10	8.246	188	269156	4.00	ug/mL	-0.03
18) Chrysene-d12	11.097	240	369743	4.00	ug/mL	-0.05
23) Perylene-d12	13.267	264	311165	4.00	ug/mL	-0.06
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.382	82	512662	4.92	ug/L	-0.03
Spiked Amount	5.000	Range	0 - 150	Recovery	=	98.40%
6) 2-Fluorobiphenyl (SURR)	6.061	172	383597	2.24	ug/L	-0.03
Spiked Amount	5.000	Range	0 - 150	Recovery	=	44.80%
16) p-Terphenyl-d14 (SURR)	9.812	244	265576	3.78	ug/L	-0.04
Spiked Amount	5.000	Range	0 - 150	Recovery	=	75.60%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\012915\
Data File : N_0245.D
Acq On : 29 Jan 2015 4:59 pm
Operator : AJG
Sample : PREP BLK PW1 1-28 /SV-2552
Misc : PB#012815PW1 40ML/2.0ML
ALS Vial : 3 Sample Multiplier: 1
Quant Time: Jan 30 08:49:22 2015
Quant Method : C:\msdchem\1\METHODS\111814LV.M
Quant Title :
QLast Update : Wed Nov 19 09:20:15 2014
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0246.D
 Acq On : 29 Jan 2015 5:24 pm
 Operator : AJG
 Sample : LCS1 PW1 1-28 /SV-2555
 Misc : PB#012815PW1 40ML/2.0ML
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 08:52:19 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8	5.047	136	521171m	4.00	ug/mL	-0.03	
8) Acenaphthene-d8	6.756	162	324263	4.00	ug/mL	-0.03	
11) Phenathrene-d10	8.245	188	220846m	4.00	ug/mL	-0.03	
18) Chrysene-d12	11.096	240	360679	4.00	ug/mL	-0.05	
23) Perylene-d12	13.267	264	298296	4.00	ug/mL	-0.06	
System Monitoring Compounds							
2) Nitrobenzene-d5 (SURR)	4.380	82	229311m	4.71	ug/L	-0.03	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	94.20%	
6) 2-Fluorobiphenyl (SURR)	6.061	172	349265	4.35	ug/L	-0.03	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	87.00%	
16) p-Terphenyl-d14 (SURR)	9.812	244	251217	4.35	ug/L	-0.04	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	87.00%	
Target Compounds							
							Qvalue
3) Naphthalene	5.068	128	313932	1.67	ug/L		100
4) 2-Methylnaphthalene	5.723	142	212045	1.17	ug/L		98
5) 1-Methylnaphthalene	5.823	142	199850	1.12	ug/L		98
7) Acenaphthylene	6.619	152	171862m	1.07	ug/L		
9) Acenaphthene	6.787	153	149863m	1.18	ug/L		
10) Fluorene	7.302	166	202213m	1.16	ug/L		
12) Phenanthrene	8.270	178	79384	1.01	ug/L		95
13) Anthracene	8.322	178	63808	1.05	ug/L #		70
14) Fluoranthene	9.467	202	118409	1.13	ug/L #		75
15) Pyrene	9.703	202	119892	1.15	ug/L #		90
17) Benzo(a)Anthracene	11.080	228	116797	1.17	ug/L		95
19) Chrysene	11.131	228	127662m	1.06	ug/L		
20) Benzo(b)Fluoranthene	12.653	252	150176m	1.37	ug/L		
21) Benzo(k)Fluoranthene	12.693	252	141484	1.30	ug/L #		62
22) Benzo(a)Pyrene	13.178	252	116740	1.38	ug/L #		70
24) Indeno(1,2,3-cd)Pyrene	15.017	276	136215	1.20	ug/L		100
25) Dibenz(ah)Anthracene	15.027	278	100774	1.23	ug/L		100
26) Benzo(ghi)Perylene	15.493	276	125524	1.15	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0247.D
 Acq On : 29 Jan 2015 5:49 pm
 Operator : AJG
 Sample : LCS2 PW1 1-28 /SV-2555
 Misc : PB#012815PW1 40ML/2.0ML
 ALS Vial : 5 Sample Multiplier: 1

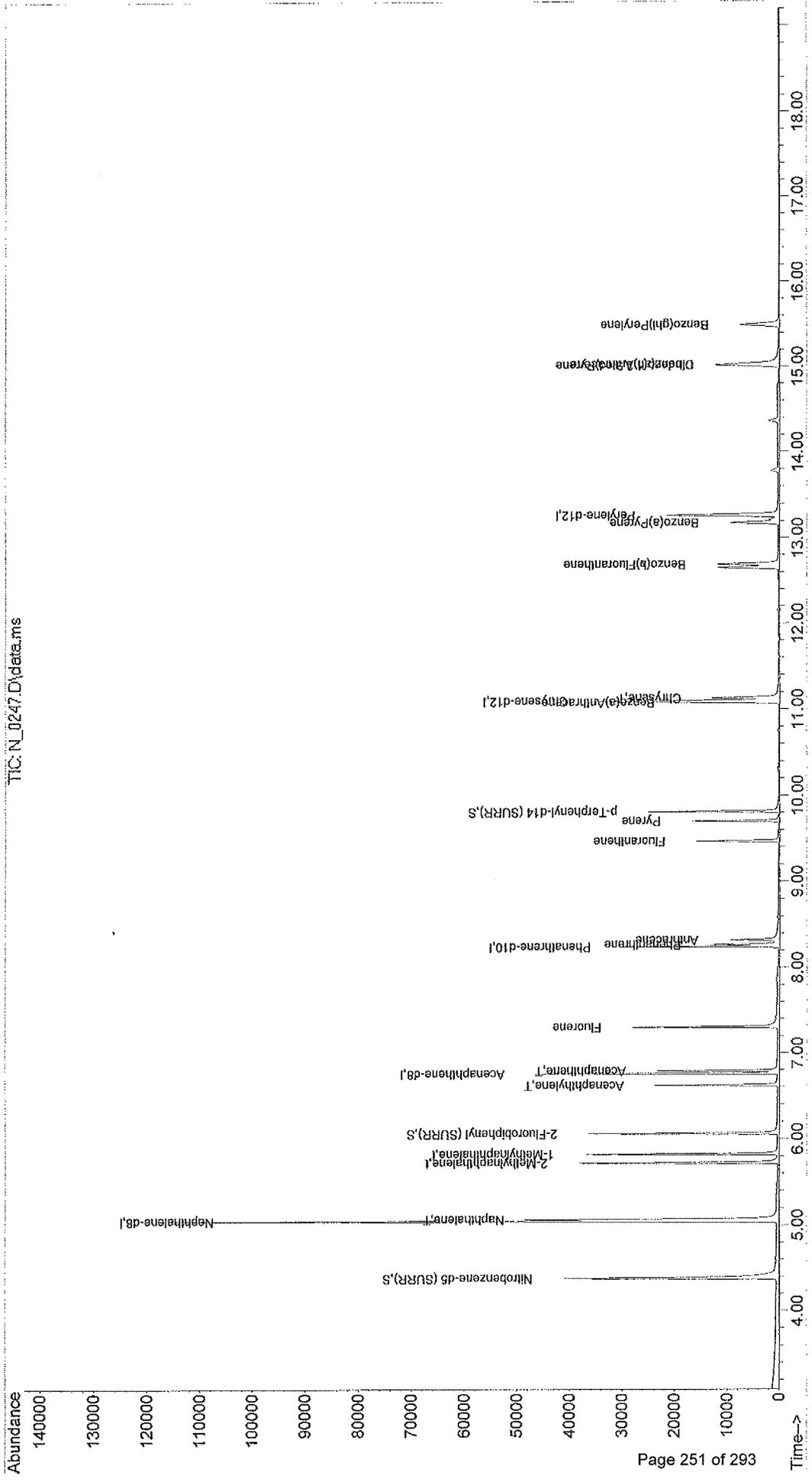
Quant Time: Jan 30 08:53:03 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8	5.047	136	681241m	4.00	ug/mL	-0.03	
8) Acenaphthene-d8	6.756	162	323493	4.00	ug/mL	-0.03	
11) Phenanthrene-d10	8.245	188	223083m	4.00	ug/mL	-0.03	
18) Chrysene-d12	11.096	240	366488	4.00	ug/mL	-0.05	
23) Perylene-d12	13.266	264	300110	4.00	ug/mL	-0.07	
System Monitoring Compounds							
2) Nitrobenzene-d5 (SURR)	4.380	82	350065m	5.49	ug/L	-0.03	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	109.80%	
6) 2-Fluorobiphenyl (SURR)	6.061	172	298211	2.84	ug/L	-0.03	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	56.80%	
16) p-Terphenyl-d14 (SURR)	9.811	244	216437	3.71	ug/L	-0.04	
Spiked Amount	5.000	Range	0 - 150	Recovery	=	74.20%	
Target Compounds							
3) Naphthalene	5.067	128	355326	1.45	ug/L		Qvalue 100
4) 2-Methylnaphthalene	5.723	142	241339	1.02	ug/L		98
5) 1-Methylnaphthalene	5.821	142	240977m	1.03	ug/L		
7) Acenaphthylene	6.619	152	280546m	1.33	ug/L		
9) Acenaphthene	6.787	153	136666m	1.08	ug/L		
10) Fluorene	7.302	166	191862m	1.10	ug/L		
12) Phenanthrene	8.269	178	90146	1.13	ug/L		94
13) Anthracene	8.321	178	73286	1.19	ug/L	#	70
14) Fluoranthene	9.467	202	135442	1.28	ug/L	#	91
15) Pyrene	9.702	202	137811	1.30	ug/L	#	90
17) Benzo(a)Anthracene	11.080	228	132032	1.31	ug/L		94
19) Chrysene	11.130	228	129468	1.06	ug/L	#	62
20) Benzo(b)Fluoranthene	12.692	252	167932	1.50	ug/L	#	88
21) Benzo(k)Fluoranthene	12.692	252	164943	1.49	ug/L	#	62
22) Benzo(a)Pyrene	13.178	252	138723	1.62	ug/L	#	70
24) Indeno(1,2,3-cd)Pyrene	15.016	276	163306	1.42	ug/L		100
25) Dibenz(ah)Anthracene	15.027	278	120218	1.45	ug/L		100
26) Benzo(ghi)Perylene	15.492	276	150407	1.37	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\012915\
Data File : N_0247.D
Acq On : 29 Jan 2015 5:49 pm
Operator : AJG
Sample : LCS2 FW1 1-28 /SV-2555
Misc : PB#012815PW1 40ML/2.0ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 08:53:03 2015
Quant Method : C:\msdchem\1\METHODS\111814LV.M
Quant Title :
QLast Update : Wed Nov 19 09:20:15 2014
Response via : Initial Calibration



TIC: N_0247.D\data.ms

8270 SVOC

- Raw Sample Data



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\013115\R_0564.D
 Acq On : 2 Feb 2015 3:55 am
 Sample : 15-1561 D PS4 1-28
 Misc : PB#012815PS4 30G1.OML
 MS Integration Params: rteint.p
 Quant Time: Feb 2 9:41 2015

Vial: 37
 Operator: AJG
 Inst : 5972R
 Multiplr: 1.00

Quant Results File: 010715PN.RES

Quant Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
 Title : BNA 8270
 Last Update : Wed Jan 07 13:31:20 2015
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (IS)	4.50	152	170772	40.00	ug/mL	-0.03
2) Naphthalene-d8 (IS)	5.95	136	714053	40.00	ug/mL	-0.03
7) Acenaphthene-d10 (IS)	8.10	164	380270	40.00	ug/mL	-0.03
12) Phenanthrene-d10 (IS)	9.97	188	616659	40.00	ug/mL	-0.03
16) Chrysene-d12 (IS)	13.58	240	403538	40.00	ug/mL	-0.04
21) Perylene-d12 (IS)	16.26	264	268578	40.00	ug/mL	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5 (SURR)	5.13	82	195416	26.87	ug/mL	0.00
Spiked Amount 50.000	Range 11 - 104		Recovery =	53.74%		
8) 2-Fluorobiphenyl (SURR)	7.23	172	326896	26.75	ug/mL	-0.03
Spiked Amount 50.000	Range 11 - 104		Recovery =	53.50%		
18) p-Terphenyl-d14 (SURR)	11.94	244	395403	46.27	ug/mL	-0.04
Spiked Amount 50.000	Range 26 - 136		Recovery =	92.54%		

Target Compounds Qvalue

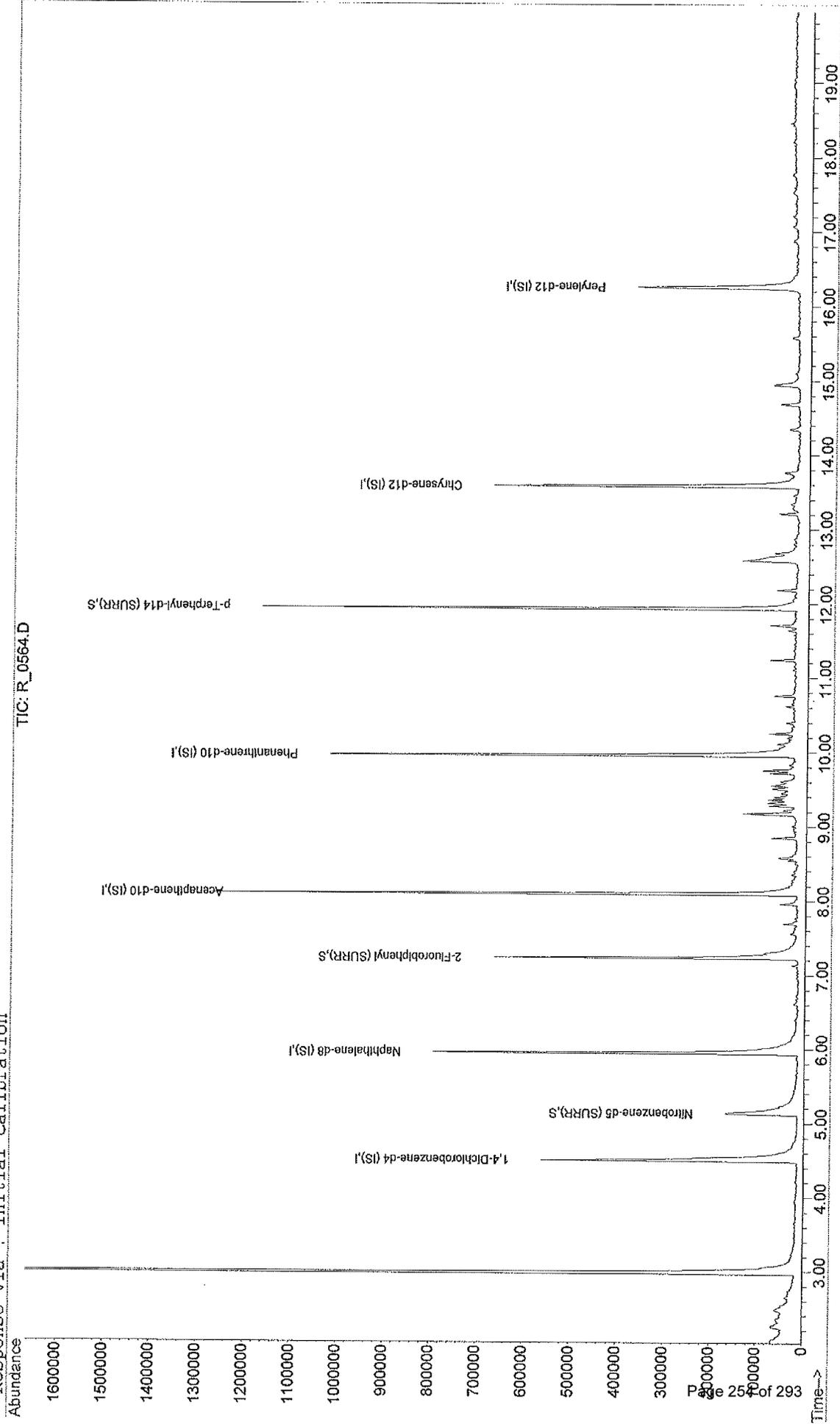
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0131115\R_0564.D
Acq On : 2 Feb 2015 3:55 am
Sample : 15-1561 D PS4 1-28
Misc : PB#012815PS4 30G1.0ML
MS Integration Params: rteint.p
Quant Time: Feb 2 9:41 2015

Vial: 37
Operator: AJG
Inst : 5972R
Multiplr: 1.00

Quant Results File: 010715PN.RES

Method : C:\HPCHEM\1\METHODS\010715PN.M (RTE Integrator)
Title : BNA 8270
Last Update : Wed Jan 07 13:31:20 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\012915\
 Data File : N_0266.D
 Acq On : 30 Jan 2015 3:48 pm
 Operator : AJG
 Sample : 15-1567 D PW1 1-28
 Misc : PB#012815PW1 40ML/2.0ML
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 31 10:45:28 2015
 Quant Method : C:\msdchem\1\METHODS\111814LV.M
 Quant Title :
 QLast Update : Wed Nov 19 09:20:15 2014
 Response via : Initial Calibration

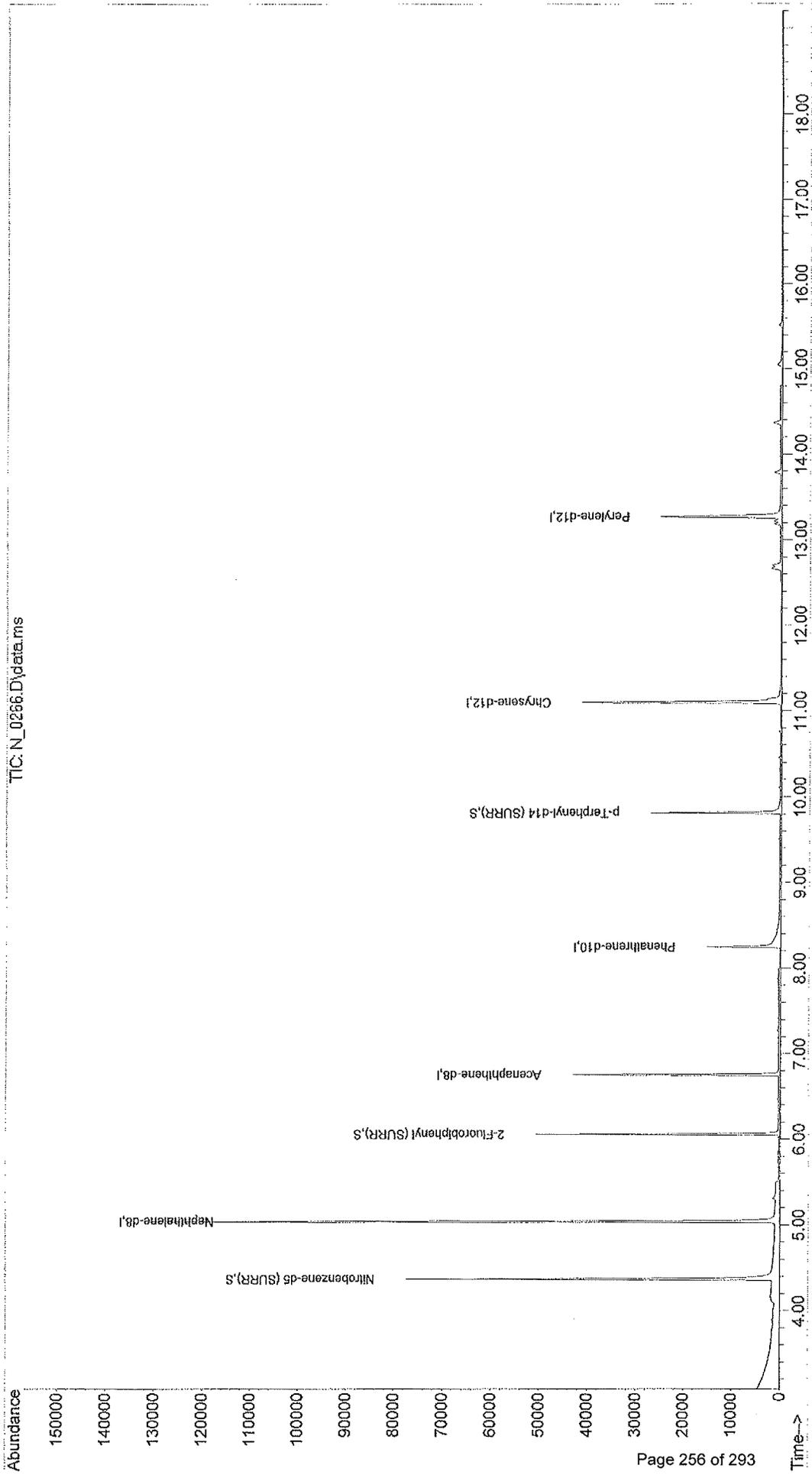
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.040	136	1094471	4.00	ug/mL	-0.04
8) Acenaphthene-d8	6.756	162	309163	4.00	ug/mL	-0.03
11) Phenathrene-d10	8.250	188	255974m	4.00	ug/mL	-0.03
18) Chrysene-d12	11.102	240	468409	4.00	ug/mL	-0.04
23) Perylene-d12	13.275	264	382536	4.00	ug/mL	-0.06
System Monitoring Compounds						
2) Nitrobenzene-d5 (SURR)	4.372	82	545116	5.33	ug/L	-0.04
Spiked Amount	5.000	Range 0 - 150	Recovery	=	106.60%	
6) 2-Fluorobiphenyl (SURR)	6.059	172	399411	2.37	ug/L	-0.03
Spiked Amount	5.000	Range 0 - 150	Recovery	=	47.40%	
16) p-Terphenyl-d14 (SURR)	9.816	244	243659	3.64	ug/L	-0.03
Spiked Amount	5.000	Range 0 - 150	Recovery	=	72.80%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\012915\
Data File : N_0266.D
Acq On : 30 Jan 2015 3:48 pm
Operator : AJG
Sample : 15-1567 D PW1 1-28
Misc : PB#012815PW1 40ML/2.0ML
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 31 10:45:28 2015
Quant Method : C:\msdchem\1\METHODS\111814LV.M
Quant Title :
QLast Update : Wed Nov 19 09:20:15 2014
Response via : Initial Calibration



TIC: N_0266.D\data.ms

Level 4 QA/QC Package

Project # 2015 - 210

Metals

- Sequence Log

ENVISION LABS

Analytical Sequence

Method : 051914 Total Met Ax

Seq.	Loc.	Sample ID
1	1	Calib Blank
2	2	STD1
3	3	STD 1A
4	4	STD2
5	5	STD2A
6	6	STD3
7	7	STD3A
8	38	ICV
9	39	ICB
10	40	ICSA
11	41	ICSA-B
12	42	LCS
13	43	MB
14	44	LCS2
15	45	MB2
16	46	LCS3
17	47	MB3
18	48	1390
19	49	1391
20	50	1392
21	51	1393
22	52	1394
23	53	1395
24	54	1396
25	55	1397
26	56	1398
27	57	CCV
28	58	CCB
29	59	1399
30	60	1399MS
31	61	1399MSD
32	62	1400
33	63	1436
34	64	1437
35	65	1438
36	66	1439
37	67	1440
38	68	1441
39	69	CCV
40	70	CCB
41	71	1442
42	72	1442MS
43	73	1442MSD
44	74	1443
45	75	1444
46	76	1445
47	77	1446
48	78	1447
49	79	1448
50	80	1449
51	81	CCV
52	82	CCB
53	83	1450
54	84	1451
55	85	1452
56	86	1453

Analytical Sequence

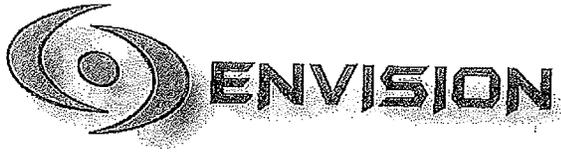
Method : 051914 Total Met Ax

Seq.	Loc.	Sample ID
57	87	1454
58	88	1455
59	89	1456
60	90	1457
61	91	1482
62	92	1483
63	93	CCV
64	94	CCB
65	95	1484-T
66	96	1484-D
67	97	1511-T
68	98	1511-D
69	99	1512-T
70	100	1512-D
71	101	1513-T
72	102	1513MS
73	103	1513MSD
74	104	1513-D
75	105	CCV
76	106	CCB
77	107	1513MS
78	108	1513MSD
79	109	1514-T
80	110	1514-D
81	111	1515-T
82	112	1515-D
83	113	1516-T
84	114	1516-D
85	115	1517-T
86	116	1517-D
87	117	CCV
88	118	CCB
89	119	1561
90	120	1562
91	121	1563
92	14	1564
93	15	1565
94	16	1566
95	17	1567
96	18	1568
97	19	1569
98	20	1570
99	21	CCV
100	22	CCB
101	23	1591-T
102	24	1591-D
103	25	1458
104	26	1459
105	27	1460
106	28	1461
107	29	1609-T
108	30	1609-D
109	31	1461MS
110	32	1461MSD
111	33	CCV
112	34	CCB

Analytical Sequence

Method : 051914 Total Met Ax

Seq.	Loc.		Sample ID
113	35		1462
114	36		1463
115	37		1464
116	38		1465
117	39		1466
118	40		1467
119	41		CCV
120	42		CCB



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Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Metals

Initial Calibration Data

- Initial Calibration Summary
- Initial Calibration
Verification Summary

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
ICV	Y 371.029	100	2/2/15	9:26	2305800	0.657487	15160.34	%
ICV	Al 394.401	0.689734	2/2/15	9:26	21520.94	0.220263	47.40257	mg/L
ICV	B 249.772	0.649938	2/2/15	9:26	37938.69	0.194227	73.68731	mg/L
ICV	Ba 233.527	0.52903	2/2/15	9:26	21506.42	0.329372	70.83616	mg/L
ICV	Ba 413.065	0.603605	2/2/15	9:26	62937.84	0.089022	56.02873	mg/L
ICV	Be 234.861	0.577716	2/2/15	9:26	250403	0.053172	133.1448	mg/L
ICV	Be 313.042	0.582214	2/2/15	9:26	2416724	0.046137	1.115.005	mg/L
ICV	Fe 238.204	0.509694	2/2/15	9:26	19977.1	0.340315	67.98514	mg/L
ICV	Pb 220.353	0.493035	2/2/15	9:26	1342.979	0.426365	5.725989	mg/L
ICV	Mn 257.610	0.554092	2/2/15	9:26	245234.1	0.03292	80.73114	mg/L
ICV	Ni 231.604	0.520009	2/2/15	9:26	9718.926	0.42414	41.22186	mg/L
ICV	Se 196.026	0.50078	2/2/15	9:26	195.4224	1.682382	3.287752	mg/L
ICV	Ag 328.068	0.575502	2/2/15	9:26	106872.1	1.232018	1316.683	mg/L
ICV	Ag 338.289	0.523354	2/2/15	9:26	68104.09	1.133569	772.0066	mg/L
ICV	Tl 351.924	0.579537	2/2/15	9:26	2594.824	0.812368	21.07952	mg/L
ICV	As 193.696	0.476595	2/2/15	9:26	228.8052	1.35934	3.110241	mg/L
ICV	As 197.197	0.502343	2/2/15	9:26	124.339	1.967965	2.446947	mg/L
ICV	Ba 230.425	0.486226	2/2/15	9:26	22976.84	0.22103	50.7857	mg/L
ICV	V 292.402	0.543611	2/2/15	9:26	47707.04	0.234133	111.6979	mg/L
ICV	Zn 213.857	0.545383	2/2/15	9:26	17068.01	0.370445	63.22754	mg/L
ICV	Zn 202.548	0.466425	2/2/15	9:26	6047.955	0.427179	25.83558	mg/L
ICV	Mo 203.845	0.397164	2/2/15	9:26	1308.433	0.340806	4.459218	mg/L
ICV	Mo 204.597	0.38829	2/2/15	9:26	1532.087	0.290965	4.457844	mg/L
ICV	Cr 205.560	0.483346	2/2/15	9:26	5934.244	0.400939	23.79269	mg/L
ICV	Mn 260.568	0.576339	2/2/15	9:26	135054.2	0.459759	620.9244	mg/L
ICV	Ni 221.648	0.51248	2/2/15	9:26	2013.652	0.769159	15.48819	mg/L
ICV	Mg 279.077	0.484117	2/2/15	9:26	6340.026	0.58229	36.91736	mg/L
ICV	Sb 206.836	0.587338	2/2/15	9:26	689.9367	0.943291	6.508112	mg/L
ICV	Sb 217.582	0.526718	2/2/15	9:26	630.6886	0.139002	0.876673	mg/L
ICV	Sb 231.146	1.464105	2/2/15	9:26	3718.905	0.023866	0.887543	mg/L
ICV	Cr 284.325	0.558771	2/2/15	9:26	38015.92	0.407946	155.0844	mg/L
ICV	Cd 228.802	0.51901	2/2/15	9:26	13757.62	0.288018	39.62436	mg/L
ICV	Cd 214.440	0.536156	2/2/15	9:26	24188.37	0.324034	78.37849	mg/L
ICV	Cd 226.502	0.545425	2/2/15	9:26	18571.83	0.481383	89.40174	mg/L
ICV	Cu 324.752	0.536382	2/2/15	9:26	164250	0.15899	261.1408	mg/L
ICV	Cu 327.393	0.556026	2/2/15	9:26	64539.86	0.364703	235.3789	mg/L
ICV	Co 238.892	0.04196	2/2/15	9:26	1576.039	0.670959	10.57457	mg/L
ICV	Fe 239.562	0.475692	2/2/15	9:26	16750.42	0.346577	58.05316	mg/L
ICV	Fe 259.939	0.535461	2/2/15	9:26	63320.45	0.407822	258.2349	mg/L
ICV	Fe 234.349	0.502742	2/2/15	9:26	11762.24	0.526435	61.92048	mg/L
ICV	Mn 259.372	0.501558	2/2/15	9:26	226384	0.050038	113.2777	mg/L
ICV	Cr 267.716	0.600455	2/2/15	9:26	26571	0.363994	96.7169	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
ICB	Y 371.029	113.9831	2/2/15	9:30	2628223	0.886473	23298.48	%
ICB	Al 394.401	0.026851	2/2/15	9:30	545.7942	1.40399	7.662898	mg/L
ICB	B 249.772	0.033395	2/2/15	9:30	2606.77	1.533678	39.97945	mg/L
ICB	Ba 233.527	-0.00395	2/2/15	9:31	-14.1324	15.66201	2.213421	mg/L
ICB	Ba 413.065	-0.0046	2/2/15	9:30	-99.4085	28.35175	28.18405	mg/L
ICB	Be 234.861	0.001617	2/2/15	9:31	110.5352	2.886836	3.19097	mg/L
ICB	Be 313.042	-4.80E-05	2/2/15	9:30	3628.37	7.112864	258.0811	mg/L
ICB	Fe 238.204	-0.01525	2/2/15	9:31	145.9348	3.220192	4.699379	mg/L
ICB	Pb 220.353	-0.00558	2/2/15	9:31	-64.2993	4.739518	3.047479	mg/L
ICB	Mn 257.610	-0.00104	2/2/15	9:31	148.8284	4.0158	5.976651	mg/L
ICB	Ni 231.604	0.003326	2/2/15	9:31	64.69043	1.208916	0.782053	mg/L
ICB	Se 196.026	-0.01954	2/2/15	9:31	-1.82108	128.0998	2.332801	mg/L
ICB	Ag 328.068	-0.00535	2/2/15	9:30	529.7088	14.95061	79.1947	mg/L
ICB	Ag 338.289	0.01854	2/2/15	9:30	1926.209	4.960169	95.54323	mg/L
ICB	Tl 351.924	-0.00071	2/2/15	9:30	11.04375	241.0044	26.61592	mg/L
ICB	As 193.696	0.003161	2/2/15	9:31	2.823032	38.69173	1.09228	mg/L
ICB	As 197.197	-0.04097	2/2/15	9:31	-2.74439	49.91798	1.369945	mg/L
ICB	Ba 230.425	-0.01853	2/2/15	9:31	33.34816	19.57985	6.52952	mg/L
ICB	V 292.402	0.004399	2/2/15	9:30	1.834308	444.0596	8.145421	mg/L
ICB	Zn 213.857	-0.05679	2/2/15	9:31	-3042.12	0.079803	2.427693	mg/L
ICB	Zn 202.548	-0.03922	2/2/15	9:31	-1259.5	0.124612	1.569485	mg/L
ICB	Mo 203.845	-0.07809	2/2/15	9:31	4.112456	47.63983	1.959167	mg/L
ICB	Mo 204.597	-0.07357	2/2/15	9:31	16.94949	6.995302	1.185668	mg/L
ICB	Cr 205.560	-0.00327	2/2/15	9:31	6.580931	28.84527	1.898287	mg/L
ICB	Mn 260.568	0.00093	2/2/15	9:31	88.69435	2.426694	2.152341	mg/L
ICB	Ni 221.648	0.000116	2/2/15	9:31	-9.78329	3.868339	0.378451	mg/L
ICB	Mg 279.077	-0.14252	2/2/15	9:31	37.86699	23.3655	8.847813	mg/L
ICB	Sb 206.836	0.079171	2/2/15	9:31	-0.63236	392.4398	2.481627	mg/L
ICB	Sb 217.582	0.011847	2/2/15	9:31	-2.0461	149.4415	3.057716	mg/L
ICB	Sb 231.146	0.012346	2/2/15	9:31	9.190187	9.721685	0.893441	mg/L
ICB	Cr 284.325	-0.00815	2/2/15	9:30	-370.51	9.728775	36.04608	mg/L
ICB	Cd 228.802	-0.00268	2/2/15	9:31	-28.3083	8.43566	2.387988	mg/L
ICB	Cd 214.440	0.00046	2/2/15	9:31	54.71136	14.30644	7.827247	mg/L
ICB	Cd 226.502	-0.00058	2/2/15	9:31	35.31481	6.984819	2.466676	mg/L
ICB	Cu 324.752	-0.00132	2/2/15	9:30	12.05442	280.9503	33.86692	mg/L
ICB	Cu 327.393	0.001139	2/2/15	9:30	-337.245	1.421082	4.792523	mg/L
ICB	Co 238.892	-0.00822	2/2/15	9:31	13.1208	30.97187	4.063756	mg/L
ICB	Fe 239.562	-0.01316	2/2/15	9:31	157.3802	4.176381	6.572796	mg/L
ICB	Fe 259.939	-0.01337	2/2/15	9:31	387.1721	1.047045	4.053867	mg/L
ICB	Fe 234.349	-0.02951	2/2/15	9:31	-244.729	1.617391	3.958228	mg/L
ICB	Mn 259.372	-0.03269	2/2/15	9:31	163.2908	3.283323	5.361365	mg/L
ICB	Cr 267.716	-0.0004	2/2/15	9:31	47.69608	5.55132	2.647762	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
ICSA	Y 371.029	97.00908	2/2/15	9:36	2236836	0.293233	6559.143	%
ICSA	Al 394.401	581.3743	2/2/15	9:36	18395709	0.112364	20670.21	mg/L
ICSA	B 249.772	0.508491	2/2/15	9:37	29832.87	0.805988	240.4493	mg/L
ICSA	Ba 233.527	0.000481	2/2/15	9:37	164.6379	1.821573	2.999	mg/L
ICSA	Ba 413.065	-0.00377	2/2/15	9:37	-13.0655	151.2073	19.75599	mg/L
ICSA	Be 234.861	-0.43566	2/2/15	9:37	-189867	0.136429	259.0325	mg/L
ICSA	Be 313.042	0.001336	2/2/15	9:37	9365.565	4.896268	458.5632	mg/L
ICSA	Fe 238.204	108.4958	2/2/15	9:37	4099437	0.100364	4114.375	mg/L
ICSA	Pb 220.353	-0.02098	2/2/15	9:37	-107.761	3.873494	4.174134	mg/L
ICSA	Mn 257.610	-0.0031	2/2/15	9:37	-761.724	3.772702	28.73758	mg/L
ICSA	Ni 231.604	0.004141	2/2/15	9:37	79.91237	4.807745	3.841983	mg/L
ICSA	Se 196.026	-0.12176	2/2/15	9:37	-40.5723	23.74901	9.635514	mg/L
ICSA	Ag 328.068	0.004061	2/2/15	9:37	2253.208	45.06599	1015.43	mg/L
ICSA	Ag 338.289	0.023491	2/2/15	9:37	2575.189	24.30225	625.8288	mg/L
ICSA	Tl 351.924	-0.00201	2/2/15	9:37	5.227131	44.04519	2.3023	mg/L
ICSA	As 193.696	0.002635	2/2/15	9:37	2.571898	146.7186	3.773452	mg/L
ICSA	As 197.197	-0.01357	2/2/15	9:37	3.665669	177.1328	6.493104	mg/L
ICSA	Ba 230.425	-0.0172	2/2/15	9:37	93.68776	4.537219	4.250819	mg/L
ICSA	V 292.402	-0.0185	2/2/15	9:37	-2024.33	0.387513	7.844532	mg/L
ICSA	Zn 213.857	-0.01049	2/2/15	9:37	-1495.78	0.552624	8.266037	mg/L
ICSA	Zn 202.548	-0.12177	2/2/15	9:37	-2452.62	0.933536	22.89604	mg/L
ICSA	Mo 203.845	-0.08036	2/2/15	9:37	-2.11527	71.40321	1.510372	mg/L
ICSA	Mo 204.597	-0.06034	2/2/15	9:37	60.35511	7.166102	4.325109	mg/L
ICSA	Cr 205.560	-0.00499	2/2/15	9:37	-14.3654	69.27448	9.95157	mg/L
ICSA	Mn 260.568	0.010986	2/2/15	9:37	2447.195	0.48874	11.96043	mg/L
ICSA	Ni 221.648	-0.00503	2/2/15	9:37	-30.0979	11.77728	3.544719	mg/L
ICSA	Mg 279.077	444.9133	2/2/15	9:37	4476049	0.071054	3180.403	mg/L
ICSA	Sb 206.836	0.073087	2/2/15	9:37	-8.90077	57.67652	5.133655	mg/L
ICSA	Sb 217.582	-0.06567	2/2/15	9:37	-97.3119	3.142666	3.05819	mg/L
ICSA	Sb 231.146	0.010399	2/2/15	9:37	4.214939	53.27718	2.2456	mg/L
ICSA	Cr 284.325	-0.0009	2/2/15	9:37	120.3228	20.63485	24.82844	mg/L
ICSA	Cd 228.802	-0.00276	2/2/15	9:37	-30.4393	22.26728	6.778004	mg/L
ICSA	Cd 214.440	0.011031	2/2/15	9:37	530.9459	0.928979	4.932378	mg/L
ICSA	Cd 226.502	0.032016	2/2/15	9:37	1141.805	0.816618	9.324181	mg/L
ICSA	Cu 324.752	-0.01818	2/2/15	9:37	-5138.85	0.480857	24.71057	mg/L
ICSA	Cu 327.393	-0.00672	2/2/15	9:37	-1255.7	1.769178	22.2156	mg/L
ICSA	Co 238.892	30.56745	2/2/15	9:37	952350.2	0.07647	728.2661	mg/L
ICSA	Fe 239.562	109.4542	2/2/15	9:37	3715790	0.065014	2415.772	mg/L
ICSA	Fe 259.939	115.5917	2/2/15	9:36	13256634	0.167486	22202.99	mg/L
ICSA	Fe 234.349	125.036	2/2/15	9:37	2821075	0.068437	1930.67	mg/L
ICSA	Mn 259.372	0.118984	2/2/15	9:37	64388.21	0.632673	407.367	mg/L
ICSA	Cr 267.716	0.00914	2/2/15	9:37	468.6139	0.988189	4.630792	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
ICSA-B	Y 371.029	97.65154	2/2/15	9:43	2251649	0.769169	17318.99	%
ICSA-B	Al 394.401	572.5914	2/2/15	9:43	18117797	0.195326	35388.85	mg/L
ICSA-B	B 249.772	0.994084	2/2/15	9:43	57660.54	0.470278	271.1646	mg/L
ICSA-B	Ba 233.527	0.394111	2/2/15	9:43	16058.65	0.283553	45.53478	mg/L
ICSA-B	Ba 413.065	0.443989	2/2/15	9:43	46394.44	0.402538	186.7551	mg/L
ICSA-B	Be 234.861	0.035884	2/2/15	9:43	14998.38	2.891111	433.6198	mg/L
ICSA-B	Be 313.042	0.434459	2/2/15	9:43	1804375	0.449972	8119.189	mg/L
ICSA-B	Fe 238.204	106.423	2/2/15	9:43	4021.132	0.397545	15985.82	mg/L
ICSA-B	Pb 220.353	0.326981	2/2/15	9:43	874.309	0.860461	7.523088	mg/L
ICSA-B	Mn 257.610	0.391293	2/2/15	9:43	173359.6	0.402918	698.4969	mg/L
ICSA-B	Ni 231.604	0.346985	2/2/15	9:43	6485.962	0.464878	30.1518	mg/L
ICSA-B	Se 196.026	0.253189	2/2/15	9:43	101.5653	4.645862	4.718585	mg/L
ICSA-B	Ag 328.068	0.45455	2/2/15	9:43	84728.31	0.179995	152.507	mg/L
ICSA-B	Ag 338.289	0.423975	2/2/15	9:43	55076.08	0.194797	107.2863	mg/L
ICSA-B	Tl 351.924	0.516703	2/2/15	9:43	2315.027	0.764078	17.68861	mg/L
ICSA-B	As 193.696	0.389458	2/2/15	9:43	187.2126	2.366156	4.429742	mg/L
ICSA-B	As 197.197	0.430352	2/2/15	9:43	107.5001	2.58413	2.777941	mg/L
ICSA-B	Ba 230.425	0.352363	2/2/15	9:43	16892.18	0.359896	60.79434	mg/L
ICSA-B	V 292.402	0.398812	2/2/15	9:43	34896.36	0.487391	170.0818	mg/L
ICSA-B	Zn 213.857	0.430115	2/2/15	9:43	13218.52	0.512787	67.78287	mg/L
ICSA-B	Zn 202.548	0.202854	2/2/15	9:43	2238.863	1.22802	27.49367	mg/L
ICSA-B	Mo 203.845	0.278728	2/2/15	9:43	983.3881	0.394691	3.881349	mg/L
ICSA-B	Mo 204.597	0.28627	2/2/15	9:43	1197.41	0.258698	3.097679	mg/L
ICSA-B	Cr 205.560	0.347919	2/2/15	9:43	4284.571	0.172195	7.377799	mg/L
ICSA-B	Mn 260.568	0.417238	2/2/15	9:43	97736.06	0.342808	335.0466	mg/L
ICSA-B	Ni 221.648	0.343514	2/2/15	9:43	1346.369	0.330836	4.454267	mg/L
ICSA-B	Mg 279.077	431.2387	2/2/15	9:43	4338521	0.273053	11846.47	mg/L
ICSA-B	Sb 206.836	0.463317	2/2/15	9:43	521.3987	0.582451	3.03689	mg/L
ICSA-B	Sb 217.582	0.343243	2/2/15	9:43	405.2124	2.245694	9.099832	mg/L
ICSA-B	Sb 231.146	0.982966	2/2/15	9:43	2489.439	0.232005	5.775624	mg/L
ICSA-B	Cr 284.325	0.40735	2/2/15	9:43	27763.07	0.292904	81.31919	mg/L
ICSA-B	Cd 228.802	0.40642	2/2/15	9:43	10782.36	0.218623	23.57268	mg/L
ICSA-B	Cd 214.440	0.36578	2/2/15	9:43	16512.75	0.445619	73.58401	mg/L
ICSA-B	Cd 226.502	0.40231	2/2/15	9:43	13713.13	0.025369	3.478861	mg/L
ICSA-B	Cu 324.752	0.480257	2/2/15	9:43	147106.9	0.067669	99.5455	mg/L
ICSA-B	Cu 327.393	0.509915	2/2/15	9:43	59148.55	0.084732	50.11781	mg/L
ICSA-B	Co 238.892	29.76472	2/2/15	9:43	927347.9	0.447639	4151.173	mg/L
ICSA-B	Fe 239.562	107.0877	2/2/15	9:43	3635464	0.382401	13902.07	mg/L
ICSA-B	Fe 259.939	114.2056	2/2/15	9:43	13097694	0.452372	59250.31	mg/L
ICSA-B	Fe 234.349	122.4812	2/2/15	9:43	2763442	0.39834	11007.9	mg/L
ICSA-B	Mn 259.372	0.49771	2/2/15	9:43	224754.5	0.32597	732.6321	mg/L
ICSA-B	Cr 267.716	0.446697	2/2/15	9:43	19783.69	0.548197	108.4536	mg/L



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Metals

Continuing Calibration Data

- Continuing Calibration Verification Summary
- Continuing Calibration Blank Verification Summary

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	108.4109	2/2/15	11:38	2499740	0.100718	2517.684	%
CCV	Al 394.401	0.70635	2/2/15	11:39	22046.7	0.329898	72.73153	mg/L
CCV	B 249.772	0.635226	2/2/15	11:39	37095.59	0.71468	265.1146	mg/L
CCV	Ba 233.527	0.514404	2/2/15	11:39	20915.84	0.679929	142.2129	mg/L
CCV	Ba 413.065	0.578756	2/2/15	11:38	60362.38	0.289596	174.8068	mg/L
CCV	Be 234.861	0.585572	2/2/15	11:38	253816.1	0.279945	710.5459	mg/L
CCV	Be 313.042	0.589016	2/2/15	11:38	2444911	0.293796	7183.049	mg/L
CCV	Fe 238.204	0.52561	2/2/15	11:39	20578.37	0.339801	69.92553	mg/L
CCV	Pb 220.353	0.484154	2/2/15	11:39	1317.912	0.42271	5.57095	mg/L
CCV	Mn 257.610	0.546344	2/2/15	11:38	241813.3	0.22247	537.9622	mg/L
CCV	Ni 231.604	0.513122	2/2/15	11:39	9590.258	0.794146	76.16065	mg/L
CCV	Se 196.026	0.540653	2/2/15	11:39	210.5376	0.744715	1.567905	mg/L
CCV	Ag 328.068	0.532212	2/2/15	11:39	98946.67	0.380372	376.3659	mg/L
CCV	Ag 338.289	0.480879	2/2/15	11:39	62535.86	0.393533	246.0992	mg/L
CCV	Tl 351.924	0.578478	2/2/15	11:39	2590.108	0.379812	9.837536	mg/L
CCV	As 193.696	0.505002	2/2/15	11:39	242.3647	0.703748	1.705636	mg/L
CCV	As 197.197	0.510003	2/2/15	11:39	126.1306	1.232707	1.554821	mg/L
CCV	Ba 230.425	0.475854	2/2/15	11:39	22505.4	0.55834	125.6567	mg/L
CCV	V 292.402	0.539908	2/2/15	11:39	47379.43	0.458165	217.0761	mg/L
CCV	Zn 213.857	0.547092	2/2/15	11:39	17125.06	0.69645	119.2676	mg/L
CCV	Zn 202.548	0.458545	2/2/15	11:39	5934.064	0.604931	35.89699	mg/L
CCV	Mo 203.845	0.396577	2/2/15	11:39	1306.821	0.454843	5.943984	mg/L
CCV	Mo 204.597	0.389614	2/2/15	11:39	1536.429	0.206281	3.169363	mg/L
CCV	Cr 205.560	0.478424	2/2/15	11:39	5874.292	0.442465	25.99166	mg/L
CCV	Mn 260.568	0.567882	2/2/15	11:39	133070.4	0.485751	646.3909	mg/L
CCV	Ni 221.648	0.510612	2/2/15	11:39	2006.274	0.636483	12.76958	mg/L
CCV	Mg 279.077	0.632041	2/2/15	11:39	7827.723	0.812402	63.5926	mg/L
CCV	Sb 206.836	0.589357	2/2/15	11:39	692.68	0.671847	4.65375	mg/L
CCV	Sb 217.582	0.531838	2/2/15	11:39	636.9806	0.542363	3.45475	mg/L
CCV	Sb 231.146	1.440368	2/2/15	11:39	3658.25	0.403001	14.74278	mg/L
CCV	Cr 284.325	0.556977	2/2/15	11:39	37894.43	0.531839	201.5373	mg/L
CCV	Cd 228.802	0.518037	2/2/15	11:39	13731.91	0.410274	56.3384	mg/L
CCV	Cd 214.440	0.521909	2/2/15	11:39	23546.56	0.734166	172.8709	mg/L
CCV	Cd 226.502	0.534963	2/2/15	11:39	18216.65	0.715058	130.2595	mg/L
CCV	Cu 324.752	0.546614	2/2/15	11:38	167375.3	0.38735	648.3285	mg/L
CCV	Cu 327.393	0.562773	2/2/15	11:39	65328.7	0.325709	212.7816	mg/L
CCV	Co 238.892	0.042811	2/2/15	11:39	1602.562	0.495573	7.941865	mg/L
CCV	Fe 239.562	0.504192	2/2/15	11:39	17717.79	0.399524	70.78683	mg/L
CCV	Fe 259.939	0.54959	2/2/15	11:39	64940.57	0.365862	237.5927	mg/L
CCV	Fe 234.349	0.520955	2/2/15	11:39	12173.09	0.378193	46.0378	mg/L
CCV	Mn 259.372	0.495065	2/2/15	11:38	223634.7	0.247997	554.6065	mg/L
CCV	Cr 267.716	0.58419	2/2/15	11:39	25853.05	0.572997	148.1373	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	127.7806	2/2/15	11:43	2946365	1.252145	36892.76	%
CCB	Al 394.401	0.046503	2/2/15	11:43	1167.63	16.21159	189.2914	mg/L
CCB	B 249.772	0.033143	2/2/15	11:43	2592.33	1.756415	45.53208	mg/L
CCB	Ba 233.527	-0.00386	2/2/15	11:43	-10.6983	22.066	2.360686	mg/L
CCB	Ba 413.065	-0.00554	2/2/15	11:43	-196.842	0.919275	1.809523	mg/L
CCB	Be 234.861	0.001595	2/2/15	11:43	101.2301	8.960657	9.070885	mg/L
CCB	Be 313.042	0.000756	2/2/15	11:43	6958.745	8.332254	579.8203	mg/L
CCB	Fe 238.204	-0.00504	2/2/15	11:43	531.7823	12.308	65.45178	mg/L
CCB	Pb 220.353	-0.00777	2/2/15	11:43	-70.477	7.304011	5.147646	mg/L
CCB	Mn 257.610	-0.00081	2/2/15	11:43	251.0267	15.15457	38.04202	mg/L
CCB	Ni 231.604	0.002818	2/2/15	11:43	55.2006	5.697996	3.145328	mg/L
CCB	Se 196.026	-0.0152	2/2/15	11:43	-0.17653	1472.827	2.600037	mg/L
CCB	Ag 328.068	-0.01937	2/2/15	11:43	-2037.15	7.314866	149.0149	mg/L
CCB	Ag 338.289	0.003901	2/2/15	11:43	7.075494	535.8815	37.91626	mg/L
CCB	Tl 351.924	-0.00312	2/2/15	11:43	0.301934	5197.884	15.6942	mg/L
CCB	As 193.696	-0.00031	2/2/15	11:43	1.168064	49.92653	0.583174	mg/L
CCB	As 197.197	-0.03971	2/2/15	11:43	-2.44951	49.80752	1.22004	mg/L
CCB	Ba 230.425	-0.01847	2/2/15	11:43	35.95342	15.68112	5.637897	mg/L
CCB	V 292.402	0.004514	2/2/15	11:43	11.96321	109.409	13.08883	mg/L
CCB	Zn 213.857	-0.05644	2/2/15	11:43	-3030.55	0.112008	3.394444	mg/L
CCB	Zn 202.548	-0.03938	2/2/15	11:43	-1261.93	0.136889	1.727442	mg/L
CCB	Mo 203.845	-0.07838	2/2/15	11:43	3.296396	78.58784	2.590566	mg/L
CCB	Mo 204.597	-0.07454	2/2/15	11:43	13.78176	3.717786	0.512376	mg/L
CCB	Cr 205.560	-0.00306	2/2/15	11:43	9.220021	34.04028	3.138521	mg/L
CCB	Mn 260.568	0.00117	2/2/15	11:43	144.9476	10.07998	14.61069	mg/L
CCB	Ni 221.648	-0.00295	2/2/15	11:43	-21.9091	11.51033	2.521804	mg/L
CCB	Mg 279.077	-0.02712	2/2/15	11:43	1198.393	53.0975	636.3169	mg/L
CCB	Sb 206.836	0.080087	2/2/15	11:43	0.611605	230.7391	1.411211	mg/L
CCB	Sb 217.582	0.012591	2/2/15	11:43	-1.1307	207.4438	2.345561	mg/L
CCB	Sb 231.146	0.011474	2/2/15	11:43	6.961245	20.53988	1.429832	mg/L
CCB	Cr 284.325	0.000936	2/2/15	11:43	244.3887	31.86106	77.86483	mg/L
CCB	Cd 228.802	-0.00278	2/2/15	11:43	-30.8828	12.3226	3.805563	mg/L
CCB	Cd 214.440	0.000317	2/2/15	11:43	48.28168	1.306715	0.630904	mg/L
CCB	Cd 226.502	-0.0008	2/2/15	11:43	27.54622	18.53303	5.105149	mg/L
CCB	Cu 324.752	2.39E-05	2/2/15	11:43	422.7269	2.409997	10.1877	mg/L
CCB	Cu 327.393	0.00107	2/2/15	11:43	-345.298	4.572469	15.78863	mg/L
CCB	Co 238.892	-0.00584	2/2/15	11:43	87.11708	17.0995	14.89659	mg/L
CCB	Fe 239.562	-0.00363	2/2/15	11:43	480.8071	11.07671	53.25759	mg/L
CCB	Fe 259.939	0.004019	2/2/15	11:43	2380.903	54.05899	1287.092	mg/L
CCB	Fe 234.349	-0.01669	2/2/15	11:43	44.58792	95.86107	42.74246	mg/L
CCB	Mn 259.372	-0.03247	2/2/15	11:43	258.7422	10.98887	28.43285	mg/L
CCB	Cr 267.716	-0.00073	2/2/15	11:43	32.71147	27.73173	9.071455	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	106.1683	2/2/15	12:52	2448029	0.203207	4974.57	%
CCV	Al 394.401	0.70624	2/2/15	12:52	22043.21	0.350204	77.19629	mg/L
CCV	B 249.772	0.62839	2/2/15	12:52	36703.88	0.480478	176.3542	mg/L
CCV	Ba 233.527	0.495055	2/2/15	12:52	20134.57	0.868274	174.8233	mg/L
CCV	Ba 413.065	0.555226	2/2/15	12:52	57923.6	0.28206	163.3796	mg/L
CCV	Be 234.861	0.583815	2/2/15	12:52	253052.8	0.238634	603.87	mg/L
CCV	Be 313.042	0.578077	2/2/15	12:52	2399578	0.170355	4087.809	mg/L
CCV	Fe 238.204	0.6258	2/2/15	12:52	24363.31	3.927563	956.8846	mg/L
CCV	Pb 220.353	0.469784	2/2/15	12:52	1277.356	0.361678	4.619912	mg/L
CCV	Mn 257.610	0.532957	2/2/15	12:52	235903.4	0.262103	618.3095	mg/L
CCV	Ni 231.604	0.498271	2/2/15	12:52	9312.765	0.716419	66.71838	mg/L
CCV	Se 196.026	0.551287	2/2/15	12:52	214.5686	0.659656	1.415416	mg/L
CCV	Ag 328.068	0.525497	2/2/15	12:52	97717.33	0.519483	507.6251	mg/L
CCV	Ag 338.289	0.473185	2/2/15	12:52	61527.19	0.565132	347.7101	mg/L
CCV	Tl 351.924	0.568913	2/2/15	12:52	2547.515	0.987522	25.15727	mg/L
CCV	As 193.696	0.501515	2/2/15	12:52	240.7003	0.760312	1.830074	mg/L
CCV	As 197.197	0.506648	2/2/15	12:52	125.3459	0.651348	0.816438	mg/L
CCV	Ba 230.425	0.457387	2/2/15	12:52	21665.99	0.970441	210.2557	mg/L
CCV	V 292.402	0.523829	2/2/15	12:52	45956.93	0.822552	378.0198	mg/L
CCV	Zn 213.857	0.543418	2/2/15	12:52	17002.37	1.127848	191.7608	mg/L
CCV	Zn 202.548	0.443092	2/2/15	12:52	5710.742	1.275296	72.82885	mg/L
CCV	Mo 203.845	0.381299	2/2/15	12:52	1264.892	0.592972	7.500459	mg/L
CCV	Mo 204.597	0.377855	2/2/15	12:52	1497.855	0.249772	3.741223	mg/L
CCV	Cr 205.560	0.464315	2/2/15	12:52	5702.427	0.764173	43.57643	mg/L
CCV	Mn 260.568	0.552887	2/2/15	12:52	129553.3	0.911057	1180.305	mg/L
CCV	Ni 221.648	0.492833	2/2/15	12:52	1936.06	0.231653	4.484948	mg/L
CCV	Mg 279.077	0.643077	2/2/15	12:52	7938.72	4.196168	333.122	mg/L
CCV	Sb 206.836	0.589633	2/2/15	12:52	693.0557	0.630264	4.368078	mg/L
CCV	Sb 217.582	0.526368	2/2/15	12:52	630.2585	0.681695	4.296438	mg/L
CCV	Sb 231.146	1.38408	2/2/15	12:52	3514.416	0.657374	23.10287	mg/L
CCV	Cr 284.325	0.546895	2/2/15	12:52	37211.78	0.705481	262.522	mg/L
CCV	Cd 228.802	0.511023	2/2/15	12:52	13546.54	0.566859	76.78977	mg/L
CCV	Cd 214.440	0.501972	2/2/15	12:52	22648.37	0.96494	218.5432	mg/L
CCV	Cd 226.502	0.517236	2/2/15	12:52	17614.82	0.969016	170.6904	mg/L
CCV	Cu 324.752	0.545062	2/2/15	12:52	166901.2	0.332403	554.7852	mg/L
CCV	Cu 327.393	0.557762	2/2/15	12:52	64742.79	0.522851	338.508	mg/L
CCV	Co 238.892	0.067386	2/2/15	12:52	2368.001	9.182477	217.4411	mg/L
CCV	Fe 239.562	0.601711	2/2/15	12:52	21027.86	4.056273	852.9475	mg/L
CCV	Fe 259.939	0.65331	2/2/15	12:52	76833.97	4.029443	3095.981	mg/L
CCV	Fe 234.349	0.621294	2/2/15	12:52	14436.63	4.404931	635.9235	mg/L
CCV	Mn 259.372	0.481035	2/2/15	12:52	217694.1	0.322184	701.376	mg/L
CCV	Cr 267.716	0.5631	2/2/15	12:52	24922.06	0.831379	207.1968	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	121.8948	2/2/15	12:56	2810650	1.108099	31144.79	%
CCB	Al 394.401	0.030828	2/2/15	12:56	671.6272	10.64315	71.48227	mg/L
CCB	B 249.772	0.017612	2/2/15	12:57	1702.302	3.007117	51.1902	mg/L
CCB	Ba 233.527	-0.00371	2/2/15	12:57	-4.67668	24.22169	1.132771	mg/L
CCB	Ba 413.065	-0.0056	2/2/15	12:56	-202.479	2.524017	5.110605	mg/L
CCB	Be 234.861	0.001345	2/2/15	12:57	-7.68889	64.57244	4.964906	mg/L
CCB	Be 313.042	0.001998	2/2/15	12:56	12108.12	2.747685	332.6931	mg/L
CCB	Fe 238.204	0.065071	2/2/15	12:56	3180.296	16.81544	534.7808	mg/L
CCB	Pb 220.353	-0.00843	2/2/15	12:57	-72.3591	1.908473	1.380954	mg/L
CCB	Mn 257.610	0.000455	2/2/15	12:57	807.8312	4.028492	32.54341	mg/L
CCB	Ni 231.604	0.002579	2/2/15	12:57	50.72594	9.814407	4.978451	mg/L
CCB	Se 196.026	-0.01358	2/2/15	12:57	0.438548	124.1063	0.544265	mg/L
CCB	Ag 328.068	-0.01566	2/2/15	12:56	-1358	6.38573	86.71813	mg/L
CCB	Ag 338.289	0.003242	2/2/15	12:56	-79.2194	38.17247	30.24	mg/L
CCB	Tl 351.924	9.45E-05	2/2/15	12:56	14.61017	63.47778	9.27421	mg/L
CCB	As 193.696	-0.00083	2/2/15	12:57	0.92046	85.48342	0.786841	mg/L
CCB	As 197.197	-0.03186	2/2/15	12:57	-0.61405	104.2224	0.539981	mg/L
CCB	Ba 230.425	-0.01853	2/2/15	12:57	33.53501	15.82633	5.307362	mg/L
CCB	V 292.402	0.00437	2/2/15	12:56	-0.71443	1128.435	8.061897	mg/L
CCB	Zn 213.857	-0.0569	2/2/15	12:57	-3045.84	0.386024	11.7577	mg/L
CCB	Zn 202.548	-0.04018	2/2/15	12:57	-1273.48	0.230029	2.929369	mg/L
CCB	Mo 203.845	-0.07876	2/2/15	12:57	2.269764	61.9893	1.407011	mg/L
CCB	Mo 204.597	-0.07436	2/2/15	12:57	14.35291	5.571854	0.799723	mg/L
CCB	Cr 205.560	-0.00353	2/2/15	12:57	3.438616	65.3205	2.246121	mg/L
CCB	Mn 260.568	0.002449	2/2/15	12:57	444.9618	4.341974	19.32012	mg/L
CCB	Ni 221.648	-0.0009	2/2/15	12:57	-13.7787	11.84554	1.632165	mg/L
CCB	Mg 279.077	-0.05197	2/2/15	12:57	948.4619	5.231488	49.61867	mg/L
CCB	Sb 206.836	0.07819	2/2/15	12:57	-1.96579	108.2626	2.128215	mg/L
CCB	Sb 217.582	0.012378	2/2/15	12:57	-1.39293	199.022	2.772236	mg/L
CCB	Sb 231.146	0.011992	2/2/15	12:57	8.284366	10.47661	0.867921	mg/L
CCB	Cr 284.325	0.010041	2/2/15	12:56	860.8873	3.706817	31.91152	mg/L
CCB	Cd 228.802	-0.0026	2/2/15	12:57	-26.2834	14.94521	3.92811	mg/L
CCB	Cd 214.440	0.000257	2/2/15	12:57	45.54912	7.454057	3.395258	mg/L
CCB	Cd 226.502	-0.00088	2/2/15	12:57	24.99785	8.747583	2.186708	mg/L
CCB	Cu 324.752	0.000514	2/2/15	12:56	572.418	1.968004	11.26521	mg/L
CCB	Cu 327.393	-0.0002	2/2/15	12:56	-494.176	7.287578	36.01345	mg/L
CCB	Co 238.892	0.011312	2/2/15	12:57	621.4527	3.932245	24.43704	mg/L
CCB	Fe 239.562	0.063038	2/2/15	12:56	2743.774	17.17716	471.3026	mg/L
CCB	Fe 259.939	0.069145	2/2/15	12:56	9848.723	16.9326	1667.645	mg/L
CCB	Fe 234.349	0.058472	2/2/15	12:57	1740.069	5.414883	94.22268	mg/L
CCB	Mn 259.372	-0.03116	2/2/15	12:57	811.0368	4.678229	37.94215	mg/L
CCB	Cr 267.716	-0.00054	2/2/15	12:57	41.28411	18.8181	7.768887	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	109.8295	2/2/15	14:08	2532450	0.464594	11765.6	%
CCV	Al 394.401	0.734132	2/2/15	14:08	22925.77	0.716783	164.3279	mg/L
CCV	B 249.772	0.623187	2/2/15	14:08	36405.68	0.676288	246.2071	mg/L
CCV	Ba 233.527	0.49205	2/2/15	14:08	20013.24	1.156316	231.4162	mg/L
CCV	Ba 413.065	0.557703	2/2/15	14:08	58180.28	0.266874	155.2678	mg/L
CCV	Be 234.861	0.572952	2/2/15	14:08	248332.9	0.140465	348.821	mg/L
CCV	Be 313.042	0.567733	2/2/15	14:08	2356708	0.23387	5511.625	mg/L
CCV	Fe 238.204	0.593036	2/2/15	14:08	23125.55	2.805882	648.8758	mg/L
CCV	Pb 220.353	0.469674	2/2/15	14:08	1277.044	0.326786	4.173204	mg/L
CCV	Mn 257.610	0.533046	2/2/15	14:08	235942.6	0.706302	1666.468	mg/L
CCV	Ni 231.604	0.489549	2/2/15	14:08	9149.791	0.926221	84.74733	mg/L
CCV	Se 196.026	0.551307	2/2/15	14:08	214.5761	0.436684	0.937019	mg/L
CCV	Ag 328.068	0.52891	2/2/15	14:08	98342.18	0.772776	759.9647	mg/L
CCV	Ag 338.289	0.474617	2/2/15	14:08	61714.98	0.832051	513.5002	mg/L
CCV	Tl 351.924	0.586165	2/2/15	14:08	2624.34	0.18736	4.916961	mg/L
CCV	As 193.696	0.498493	2/2/15	14:08	239.2579	0.387049	0.926044	mg/L
CCV	As 197.197	0.502836	2/2/15	14:08	124.4544	1.199899	1.493327	mg/L
CCV	Ba 230.425	0.45439	2/2/15	14:08	21529.78	1.090026	234.6803	mg/L
CCV	V 292.402	0.520005	2/2/15	14:08	45618.62	1.089173	496.8659	mg/L
CCV	Zn 213.857	0.528324	2/2/15	14:08	16498.3	1.182258	195.0524	mg/L
CCV	Zn 202.548	0.417122	2/2/15	14:08	5335.437	1.805263	96.31868	mg/L
CCV	Mo 203.845	0.38118	2/2/15	14:08	1264.566	0.281998	3.566054	mg/L
CCV	Mo 204.597	0.377015	2/2/15	14:08	1495.1	0.523208	7.822486	mg/L
CCV	Cr 205.560	0.455308	2/2/15	14:08	5592.701	1.325011	74.10389	mg/L
CCV	Mn 260.568	0.549246	2/2/15	14:08	128699.3	1.274697	1640.525	mg/L
CCV	Ni 221.648	0.481137	2/2/15	14:08	1889.872	0.433115	8.185313	mg/L
CCV	Mg 279.077	0.487618	2/2/15	14:08	6375.236	0.836364	53.3202	mg/L
CCV	Sb 206.836	0.586302	2/2/15	14:08	688.5294	0.435962	3.001727	mg/L
CCV	Sb 217.582	0.532891	2/2/15	14:08	638.275	0.603556	3.852348	mg/L
CCV	Sb 231.146	1.368573	2/2/15	14:08	3474.79	1.461618	50.78818	mg/L
CCV	Cr 284.325	0.54313	2/2/15	14:08	36956.89	0.977757	361.3488	mg/L
CCV	Cd 228.802	0.50521	2/2/15	14:08	13392.93	0.967816	129.6189	mg/L
CCV	Cd 214.440	0.48482	2/2/15	14:08	21875.63	1.156375	252.9643	mg/L
CCV	Cd 226.502	0.504555	2/2/15	14:08	17184.32	1.309868	225.0919	mg/L
CCV	Cu 324.752	0.558451	2/2/15	14:08	170991	0.338914	579.5124	mg/L
CCV	Cu 327.393	0.569186	2/2/15	14:08	66078.53	0.715178	472.5791	mg/L
CCV	Co 238.892	0.05908	2/2/15	14:08	2109.28	5.138886	108.3935	mg/L
CCV	Fe 239.562	0.574874	2/2/15	14:08	20116.94	2.794688	562.2055	mg/L
CCV	Fe 259.939	0.622564	2/2/15	14:08	73308.43	2.763888	2026.163	mg/L
CCV	Fe 234.349	0.588541	2/2/15	14:08	13697.75	2.907733	398.2941	mg/L
CCV	Mn 259.372	0.480066	2/2/15	14:08	217283.5	0.688749	1496.538	mg/L
CCV	Cr 267.716	0.551658	2/2/15	14:08	24416.97	1.172421	286.2698	mg/L

Sample ID	Analyte Name	Conc (Callb)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	129.1172	2/2/15	14:12	2977184	0.152976	4554.387	%
CCB	Al 394.401	0.047992	2/2/15	14:12	1214.763	1.419995	17.24957	mg/L
CCB	B 249.772	0.020601	2/2/15	14:12	1873.582	4.487391	84.07495	mg/L
CCB	Ba 233.527	-0.00335	2/2/15	14:13	9.819661	21.53776	2.114935	mg/L
CCB	Ba 413.065	-0.00594	2/2/15	14:12	-237.699	5.817548	13.82823	mg/L
CCB	Be 234.861	-0.00018	2/2/15	14:12	-668.723	1.872234	12.52006	mg/L
CCB	Be 313.042	0.002567	2/2/15	14:12	14465.87	1.147252	165.96	mg/L
CCB	Fe 238.204	0.581651	2/2/15	14:12	22695.47	0.640753	145.4219	mg/L
CCB	Pb 220.353	-0.00664	2/2/15	14:13	-67.3032	2.981567	2.006691	mg/L
CCB	Mn 257.610	0.005121	2/2/15	14:12	2867.78	4.175596	119.7469	mg/L
CCB	Ni 231.604	0.058132	2/2/15	14:13	1088.743	0.680833	7.412526	mg/L
CCB	Se 196.026	-0.01614	2/2/15	14:13	-0.5329	95.49537	0.50889	mg/L
CCB	Ag 328.068	-0.01582	2/2/15	14:12	-1387.32	4.012326	55.66387	mg/L
CCB	Ag 338.289	0.0051	2/2/15	14:12	164.3329	23.94426	39.3483	mg/L
CCB	Tl 351.924	-0.00363	2/2/15	14:12	-1.96361	253.0028	4.967978	mg/L
CCB	As 193.696	-0.00055	2/2/15	14:13	1.049933	298.6162	3.135269	mg/L
CCB	As 197.197	-0.03377	2/2/15	14:13	-1.06045	31.72897	0.336469	mg/L
CCB	Ba 230.425	-0.01802	2/2/15	14:13	56.70886	9.933773	5.633329	mg/L
CCB	V 292.402	0.005126	2/2/15	14:12	66.15657	18.35905	12.14572	mg/L
CCB	Zn 213.857	0.114438	2/2/15	14:12	2676.213	1.071041	28.66332	mg/L
CCB	Zn 202.548	0.092999	2/2/15	14:13	651.2492	2.718646	17.70516	mg/L
CCB	Mo 203.845	-0.07791	2/2/15	14:13	4.594231	84.93898	3.902293	mg/L
CCB	Mo 204.597	-0.0741	2/2/15	14:13	15.21611	4.93663	0.751163	mg/L
CCB	Cr 205.560	0.115818	2/2/15	14:13	1457.272	0.521546	7.600337	mg/L
CCB	Mn 260.568	0.007567	2/2/15	14:13	1645.385	2.922147	48.08056	mg/L
CCB	Ni 221.648	0.054703	2/2/15	14:13	205.7907	1.001097	2.060165	mg/L
CCB	Mg 279.077	-0.05765	2/2/15	14:13	891.3408	0.718028	6.400075	mg/L
CCB	Sb 206.836	0.082417	2/2/15	14:13	3.778935	78.01791	2.948246	mg/L
CCB	Sb 217.582	0.012298	2/2/15	14:13	-1.49178	126.7871	1.891383	mg/L
CCB	Sb 231.146	0.013634	2/2/15	14:13	12.48213	32.32925	4.035377	mg/L
CCB	Cr 284.325	0.149796	2/2/15	14:12	10323.87	0.471466	48.67351	mg/L
CCB	Cd 228.802	-0.00265	2/2/15	14:13	-27.4847	13.10659	3.602306	mg/L
CCB	Cd 214.440	0.000248	2/2/15	14:13	45.15971	5.769196	2.605352	mg/L
CCB	Cd 226.502	-0.00057	2/2/15	14:13	35.5482	8.899197	3.163504	mg/L
CCB	Cu 324.752	0.001633	2/2/15	14:12	914.3145	3.182639	29.09933	mg/L
CCB	Cu 327.393	0.000365	2/2/15	14:12	-427.726	8.745123	37.40514	mg/L
CCB	Co 238.892	0.128906	2/2/15	14:12	4284.143	0.281764	12.07117	mg/L
CCB	Fe 239.562	0.557115	2/2/15	14:12	19514.15	0.597271	116.5524	mg/L
CCB	Fe 259.939	0.60464	2/2/15	14:12	71253.11	0.664657	473.5886	mg/L
CCB	Fe 234.349	0.567966	2/2/15	14:12	13233.62	0.74287	98.30856	mg/L
CCB	Mn 259.372	-0.02606	2/2/15	14:12	2970.575	3.674562	109.1556	mg/L
CCB	Cr 267.716	0.143173	2/2/15	14:12	6385.24	0.48875	31.20789	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	109.8131	2/2/15	15:19	2532072	0.27845	7050.552	%
CCV	Al 394.401	0.761934	2/2/15	15:19	23805.5	1.450125	345.2095	mg/L
CCV	B 249.772	0.615579	2/2/15	15:19	35969.71	0.6071	218.372	mg/L
CCV	Ba 233.527	0.486829	2/2/15	15:19	19802.43	0.48712	96.46159	mg/L
CCV	Ba 413.065	0.564349	2/2/15	15:19	58869.15	0.237447	139.7829	mg/L
CCV	Be 234.861	0.568912	2/2/15	15:19	246577.7	0.148565	366.3272	mg/L
CCV	Be 313.042	0.561937	2/2/15	15:19	2332690	0.236945	5527.182	mg/L
CCV	Fe 238.204	0.673806	2/2/15	15:19	26176.87	4.562919	1194.429	mg/L
CCV	Pb 220.353	0.462846	2/2/15	15:19	1257.774	0.58566	7.36628	mg/L
CCV	Mn 257.610	0.524748	2/2/15	15:19	232279.1	0.267732	621.8854	mg/L
CCV	Ni 231.604	0.480587	2/2/15	15:19	8982.322	0.363521	32.65267	mg/L
CCV	Se 196.026	0.559648	2/2/15	15:19	217.7383	1.786632	3.890183	mg/L
CCV	Ag 328.068	0.530944	2/2/15	15:19	98714.42	0.282728	279.0934	mg/L
CCV	Ag 338.289	0.475433	2/2/15	15:19	61821.88	0.332568	205.6	mg/L
CCV	Tl 351.924	0.60589	2/2/15	15:19	2712.17	0.536033	14.53812	mg/L
CCV	As 193.696	0.503117	2/2/15	15:19	241.4652	0.375434	0.906542	mg/L
CCV	As 197.197	0.503416	2/2/15	15:19	124.5899	0.953197	1.187587	mg/L
CCV	Ba 230.425	0.448049	2/2/15	15:19	21241.52	0.471557	100.1659	mg/L
CCV	V 292.402	0.514297	2/2/15	15:19	45113.57	0.387683	174.8979	mg/L
CCV	Zn 213.857	0.528202	2/2/15	15:19	16494.22	0.441469	72.81691	mg/L
CCV	Zn 202.548	0.402128	2/2/15	15:19	5118.744	0.99375	50.86753	mg/L
CCV	Mo 203.845	0.375364	2/2/15	15:19	1248.604	0.265269	3.312155	mg/L
CCV	Mo 204.597	0.375368	2/2/15	15:19	1489.697	0.63005	9.385838	mg/L
CCV	Cr 205.560	0.445012	2/2/15	15:19	5467.287	0.439346	24.02031	mg/L
CCV	Mn 260.568	0.544637	2/2/15	15:19	127618.2	0.390438	498.2701	mg/L
CCV	Ni 221.648	0.473162	2/2/15	15:19	1858.376	0.38658	7.184106	mg/L
CCV	Mg 279.077	0.534495	2/2/15	15:19	6846.691	1.655934	113.3767	mg/L
CCV	Sb 206.836	0.591172	2/2/15	15:19	695.1474	0.034171	0.237542	mg/L
CCV	Sb 217.582	0.536061	2/2/15	15:19	642.1704	0.416532	2.674846	mg/L
CCV	Sb 231.146	1.328221	2/2/15	15:19	3371.678	0.623827	21.03343	mg/L
CCV	Cr 284.325	0.543357	2/2/15	15:19	36972.25	0.314791	116.3855	mg/L
CCV	Cd 228.802	0.507494	2/2/15	15:19	13453.29	0.41972	56.46617	mg/L
CCV	Cd 214.440	0.471795	2/2/15	15:19	21288.84	0.576698	122.7724	mg/L
CCV	Cd 226.502	0.494223	2/2/15	15:19	16833.54	0.436735	73.51805	mg/L
CCV	Cu 324.752	0.571316	2/2/15	15:19	174920.4	0.062266	108.9159	mg/L
CCV	Cu 327.393	0.575772	2/2/15	15:19	66848.51	0.468539	313.2111	mg/L
CCV	Co 238.892	0.076985	2/2/15	15:19	2666.953	8.365776	223.1113	mg/L
CCV	Fe 239.562	0.653517	2/2/15	15:19	22786.31	4.463323	1017.027	mg/L
CCV	Fe 259.939	0.706876	2/2/15	15:19	82976.36	4.709632	3907.881	mg/L
CCV	Fe 234.349	0.664144	2/2/15	15:19	15403.27	4.688811	722.2301	mg/L
CCV	Mn 259.372	0.467653	2/2/15	15:19	212027.5	0.316757	671.6122	mg/L
CCV	Cr 267.716	0.53975	2/2/15	15:19	23891.3	0.389722	93.10962	mg/L

Sample ID	Analyte Name	Conc (Callb)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	117.6177	2/2/15	15:23	2712029	0.486671	13198.66	%
CCB	Al 394.401	0.040165	2/2/15	15:23	967.088	18.22988	176.299	mg/L
CCB	B 249.772	0.008101	2/2/15	15:24	1157.237	5.330027	61.68105	mg/L
CCB	Ba 233.527	-0.00375	2/2/15	15:24	-6.26096	72.13059	4.51607	mg/L
CCB	Ba 413.065	-0.00671	2/2/15	15:23	-317.95	9.937902	31.59758	mg/L
CCB	Be 234.861	0.001197	2/2/15	15:24	-71.6943	29.09859	20.86204	mg/L
CCB	Be 313.042	0.003907	2/2/15	15:23	20019.91	0.704075	140.9552	mg/L
CCB	Fe 238.204	0.108687	2/2/15	15:23	4827.993	21.67812	1046.618	mg/L
CCB	Pb 220.353	-0.00896	2/2/15	15:24	-73.8488	0.886088	0.654366	mg/L
CCB	Mn 257.610	0.001012	2/2/15	15:24	1053.694	11.42757	120.4116	mg/L
CCB	Ni 231.604	0.002347	2/2/15	15:24	46.38764	8.058304	3.738057	mg/L
CCB	Se 196.026	-0.01755	2/2/15	15:24	-1.06709	155.7343	1.661828	mg/L
CCB	Ag 328.068	-0.00979	2/2/15	15:23	-282.006	18.32887	51.68846	mg/L
CCB	Ag 338.289	0.003013	2/2/15	15:23	-109.347	17.36192	18.98474	mg/L
CCB	Tl 351.924	-0.00207	2/2/15	15:23	4.95728	163.3232	8.096389	mg/L
CCB	As 193.696	0.000648	2/2/15	15:24	1.623581	19.11581	0.310361	mg/L
CCB	As 197.197	-0.03152	2/2/15	15:24	-0.5336	282.5024	1.507419	mg/L
CCB	Ba 230.425	-0.01839	2/2/15	15:24	39.54402	6.433858	2.544206	mg/L
CCB	V 292.402	0.004526	2/2/15	15:23	13.08317	25.56558	3.344788	mg/L
CCB	Zn 213.857	-0.05708	2/2/15	15:24	-3051.76	0.14138	4.314588	mg/L
CCB	Zn 202.548	-0.04114	2/2/15	15:24	-1287.32	0.147424	1.89782	mg/L
CCB	Mo 203.845	-0.07837	2/2/15	15:24	3.332634	71.24926	2.374477	mg/L
CCB	Mo 204.597	-0.07489	2/2/15	15:24	12.6281	5.841082	0.737618	mg/L
CCB	Cr 205.560	-0.00312	2/2/15	15:24	8.43438	42.32994	3.570268	mg/L
CCB	Mn 260.568	0.003014	2/2/15	15:24	577.3337	10.04413	57.98816	mg/L
CCB	Ni 221.648	0.000985	2/2/15	15:24	-6.35204	13.75102	0.873471	mg/L
CCB	Mg 279.077	-0.10138	2/2/15	15:24	451.597	7.812936	35.28298	mg/L
CCB	Sb 206.836	0.080303	2/2/15	15:24	0.90572	452.2158	4.095811	mg/L
CCB	Sb 217.582	0.014845	2/2/15	15:24	1.63831	25.60753	0.419531	mg/L
CCB	Sb 231.146	0.011721	2/2/15	15:24	7.591875	60.9434	4.626747	mg/L
CCB	Cr 284.325	0.018738	2/2/15	15:23	1449.8	2.983395	43.25328	mg/L
CCB	Cd 228.802	-0.0027	2/2/15	15:24	-28.8008	7.993848	2.30229	mg/L
CCB	Cd 214.440	0.000117	2/2/15	15:24	39.2568	20.0027	7.852421	mg/L
CCB	Cd 226.502	-0.0009	2/2/15	15:24	24.34692	6.921244	1.68511	mg/L
CCB	Cu 324.752	0.001058	2/2/15	15:23	738.6246	2.997679	22.1416	mg/L
CCB	Cu 327.393	-0.0013	2/2/15	15:23	-621.841	3.112155	19.35265	mg/L
CCB	Co 238.892	0.02257	2/2/15	15:24	972.1118	11.27708	109.6258	mg/L
CCB	Fe 239.562	0.104909	2/2/15	15:23	4165.01	21.78302	907.265	mg/L
CCB	Fe 259.939	0.115771	2/2/15	15:23	15195.3	21.58586	3280.036	mg/L
CCB	Fe 234.349	0.096082	2/2/15	15:23	2588.491	23.66521	612.5717	mg/L
CCB	Mn 259.372	-0.03062	2/2/15	15:24	1040.611	10.67671	111.103	mg/L
CCB	Cr 267.716	-0.00011	2/2/15	15:24	60.08503	7.005459	4.209232	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	104.9813	2/2/15	16:20	2420658	0.2663	6446.204	%
CCV	Al 394.401	0.694645	2/2/15	16:21	21676.33	0.864544	187.4014	mg/L
CCV	B 249.772	0.618263	2/2/15	16:21	36123.51	0.340168	122.8806	mg/L
CCV	Ba 233.527	0.47202	2/2/15	16:21	19204.49	0.248954	47.81028	mg/L
CCV	Ba 413.065	0.553833	2/2/15	16:21	57779.25	0.166143	95.99606	mg/L
CCV	Be 234.861	0.548984	2/2/15	16:21	237920	0.148772	353.958	mg/L
CCV	Be 313.042	0.54226	2/2/15	16:21	2251138	0.111478	2509.514	mg/L
CCV	Fe 238.204	0.475882	2/2/15	16:21	18699.74	3.264755	610.5009	mg/L
CCV	Pb 220.353	0.44573	2/2/15	16:21	1209.465	0.193866	2.344747	mg/L
CCV	Mn 257.610	0.504571	2/2/15	16:21	223370.9	0.200237	447.2721	mg/L
CCV	Ni 231.604	0.462803	2/2/15	16:21	8650.041	0.353575	30.58441	mg/L
CCV	Se 196.026	0.552923	2/2/15	16:21	215.1887	0.617326	1.328415	mg/L
CCV	Ag 328.068	0.515844	2/2/15	16:21	95949.98	0.348342	334.234	mg/L
CCV	Ag 338.289	0.461345	2/2/15	16:21	59975.07	0.433226	259.8275	mg/L
CCV	Tl 351.924	0.588084	2/2/15	16:21	2632.882	1.437199	37.83976	mg/L
CCV	As 193.696	0.495766	2/2/15	16:21	237.9559	0.304896	0.725517	mg/L
CCV	As 197.197	0.49433	2/2/15	16:21	122.4647	1.165677	1.427543	mg/L
CCV	Ba 230.425	0.432466	2/2/15	16:21	20533.22	0.479934	98.5458	mg/L
CCV	V 292.402	0.493066	2/2/15	16:21	43235.3	0.441192	190.7508	mg/L
CCV	Zn 213.857	0.508044	2/2/15	16:21	15821.03	0.180989	28.63433	mg/L
CCV	Zn 202.548	0.385404	2/2/15	16:21	4877.039	0.464196	22.63901	mg/L
CCV	Mo 203.845	0.364324	2/2/15	16:21	1218.305	0.1791	2.181981	mg/L
CCV	Mo 204.597	0.365391	2/2/15	16:21	1456.965	0.308788	4.498938	mg/L
CCV	Cr 205.560	0.425432	2/2/15	16:21	5228.778	0.359526	18.79881	mg/L
CCV	Mn 260.568	0.52386	2/2/15	16:21	122744.8	0.496001	608.8155	mg/L
CCV	Ni 221.648	0.459082	2/2/15	16:21	1802.772	0.115823	2.088027	mg/L
CCV	Mg 279.077	0.46661	2/2/15	16:21	6163.95	6.387587	393.7277	mg/L
CCV	Sb 206.836	0.580995	2/2/15	16:21	681.3168	0.229622	1.564455	mg/L
CCV	Sb 217.582	0.528791	2/2/15	16:21	633.2355	1.243838	7.876422	mg/L
CCV	Sb 231.146	1.273629	2/2/15	16:21	3232.176	0.423852	13.69963	mg/L
CCV	Cr 284.325	0.523896	2/2/15	16:21	35654.54	0.508177	181.1882	mg/L
CCV	Cd 228.802	0.489909	2/2/15	16:21	12988.59	0.336844	43.75134	mg/L
CCV	Cd 214.440	0.457454	2/2/15	16:21	20642.79	0.336888	69.54305	mg/L
CCV	Cd 226.502	0.477779	2/2/15	16:21	16275.28	0.446861	72.7279	mg/L
CCV	Cu 324.752	0.556071	2/2/15	16:21	170263.9	0.136544	232.4858	mg/L
CCV	Cu 327.393	0.551021	2/2/15	16:21	63954.64	0.684912	438.0331	mg/L
CCV	Co 238.892	0.034492	2/2/15	16:21	1343.43	9.754146	131.0401	mg/L
CCV	Fe 239.562	0.462977	2/2/15	16:21	16318.84	3.277306	534.8183	mg/L
CCV	Fe 259.939	0.501218	2/2/15	16:21	59393.87	3.186021	1892.301	mg/L
CCV	Fe 234.349	0.466169	2/2/15	16:21	10937.2	3.713805	406.1863	mg/L
CCV	Mn 259.372	0.446115	2/2/15	16:21	202907.6	0.193912	393.4618	mg/L
CCV	Cr 267.716	0.516997	2/2/15	16:21	22886.94	0.363362	83.16235	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	129.0362	2/2/15	16:25	2975316	0.39859	11859.31	%
CCB	Al 394.401	0.045035	2/2/15	16:25	1121.184	2.956928	33.15261	mg/L
CCB	B 249.772	0.040012	2/2/15	16:25	2985.929	3.093919	92.38223	mg/L
CCB	Ba 233.527	-0.00366	2/2/15	16:25	-2.4665	140.1761	3.457444	mg/L
CCB	Ba 413.065	-0.00647	2/2/15	16:25	-293.001	6.509472	19.07285	mg/L
CCB	Be 234.861	0.001601	2/2/15	16:25	103.5358	5.703141	5.904791	mg/L
CCB	Be 313.042	0.004352	2/2/15	16:25	21865.36	0.3145	68.76661	mg/L
CCB	Fe 238.204	-0.00869	2/2/15	16:25	393.814	14.01539	55.19455	mg/L
CCB	Pb 220.353	-0.00829	2/2/15	16:25	-71.9636	0.878605	0.632276	mg/L
CCB	Mn 257.610	-0.00103	2/2/15	16:25	153.6196	15.58999	23.94928	mg/L
CCB	Ni 231.604	0.002223	2/2/15	16:25	44.06794	5.346801	2.356225	mg/L
CCB	Se 196.026	-0.01162	2/2/15	16:25	1.179927	105.5223	1.245086	mg/L
CCB	Ag 328.068	-0.01309	2/2/15	16:25	-886.432	4.954262	43.91619	mg/L
CCB	Ag 338.289	0.004643	2/2/15	16:25	104.3319	34.5116	36.00661	mg/L
CCB	Tl 351.924	0.001433	2/2/15	16:25	20.56952	36.1478	7.435429	mg/L
CCB	As 193.696	-0.00085	2/2/15	16:25	0.909227	246.2427	2.238904	mg/L
CCB	As 197.197	-0.03383	2/2/15	16:25	-1.07478	181.8292	1.954267	mg/L
CCB	Ba 230.425	-0.01843	2/2/15	16:25	37.99519	20.01788	7.605831	mg/L
CCB	V 292.402	0.004463	2/2/15	16:25	7.323845	152.049	11.13583	mg/L
CCB	Zn 213.857	-0.05407	2/2/15	16:25	-2951.17	0.109508	3.231765	mg/L
CCB	Zn 202.548	-0.03817	2/2/15	16:25	-1244.33	0.06231	0.775351	mg/L
CCB	Mo 203.845	-0.07698	2/2/15	16:25	7.137771	46.00034	3.283399	mg/L
CCB	Mo 204.597	-0.07278	2/2/15	16:25	19.53012	12.82436	2.504613	mg/L
CCB	Cr 205.560	-0.00315	2/2/15	16:25	8.054309	14.32089	1.153449	mg/L
CCB	Mn 260.568	0.000953	2/2/15	16:25	94.00582	9.248152	8.693801	mg/L
CCB	Ni 221.648	-0.00599	2/2/15	16:25	-33.8885	3.275628	1.110061	mg/L
CCB	Mg 279.077	-0.13731	2/2/15	16:25	90.22849	10.97792	9.905207	mg/L
CCB	Sb 206.836	0.079042	2/2/15	16:25	-0.80872	147.6319	1.193924	mg/L
CCB	Sb 217.582	0.017271	2/2/15	16:25	4.620243	72.46876	3.348233	mg/L
CCB	Sb 231.146	0.011079	2/2/15	16:25	5.9533	24.02843	1.430484	mg/L
CCB	Cr 284.325	0.010268	2/2/15	16:25	876.2887	3.005599	26.33772	mg/L
CCB	Cd 228.802	-0.0027	2/2/15	16:25	-28.9719	10.27476	2.976794	mg/L
CCB	Cd 214.440	0.000205	2/2/15	16:25	43.22046	5.509838	2.381377	mg/L
CCB	Cd 226.502	-0.00075	2/2/15	16:25	29.38537	2.3094	0.678626	mg/L
CCB	Cu 324.752	0.002307	2/2/15	16:25	1120.068	1.559228	17.46442	mg/L
CCB	Cu 327.393	-0.00112	2/2/15	16:25	-601.271	1.931997	11.61653	mg/L
CCB	Co 238.892	-0.00645	2/2/15	16:25	68.13559	12.63987	8.612252	mg/L
CCB	Fe 239.562	-0.00674	2/2/15	16:25	375.3273	11.75096	44.10454	mg/L
CCB	Fe 259.939	-0.00601	2/2/15	16:25	1230.446	12.39137	152.4692	mg/L
CCB	Fe 234.349	-0.01891	2/2/15	16:25	-5.59083	495.532	27.70436	mg/L
CCB	Mn 259.372	-0.03267	2/2/15	16:25	173.9009	7.831235	13.61858	mg/L
CCB	Cr 267.716	-0.00068	2/2/15	16:25	35.23913	6.034663	2.126563	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	103.9307	2/2/15	17:14	2396435	0.213568	5118.008	%
CCV	Al 394.401	0.658076	2/2/15	17:15	20519.19	0.470816	96.60762	mg/L
CCV	B 249.772	0.641805	2/2/15	17:15	37472.64	0.675161	253.0007	mg/L
CCV	Ba 233.527	0.483514	2/2/15	17:15	19668.57	0.603506	118.701	mg/L
CCV	Ba 413.065	0.563267	2/2/15	17:15	58756.99	0.243679	143.1783	mg/L
CCV	Be 234.861	0.557576	2/2/15	17:15	241652.9	0.15748	380.5562	mg/L
CCV	Be 313.042	0.558559	2/2/15	17:15	2318687	0.254687	5905.387	mg/L
CCV	Fe 238.204	0.479409	2/2/15	17:15	18832.99	0.73395	138.2248	mg/L
CCV	Pb 220.353	0.455026	2/2/15	17:15	1235.702	0.244949	3.026839	mg/L
CCV	Mn 257.610	0.515544	2/2/15	17:15	228215.4	0.195175	445.4186	mg/L
CCV	Ni 231.604	0.47395	2/2/15	17:15	8858.311	0.779916	69.08736	mg/L
CCV	Se 196.026	0.546998	2/2/15	17:15	212.943	0.377392	0.803629	mg/L
CCV	Ag 328.068	0.508865	2/2/15	17:15	94672.3	0.505527	478.5942	mg/L
CCV	Ag 338.289	0.456111	2/2/15	17:15	59288.95	0.539603	319.9252	mg/L
CCV	Tl 351.924	0.578632	2/2/15	17:15	2590.792	0.557291	14.43825	mg/L
CCV	As 193.696	0.507289	2/2/15	17:15	243.4564	1.297134	3.157956	mg/L
CCV	As 197.197	0.507002	2/2/15	17:15	125.4287	1.467223	1.840318	mg/L
CCV	Ba 230.425	0.442972	2/2/15	17:15	21010.75	0.547982	115.1352	mg/L
CCV	V 292.402	0.500217	2/2/15	17:15	43867.91	0.683948	300.0335	mg/L
CCV	Zn 213.857	0.520405	2/2/15	17:15	16233.82	0.698908	113.4595	mg/L
CCV	Zn 202.548	0.413787	2/2/15	17:15	5287.239	0.684842	36.20925	mg/L
CCV	Mo 203.845	0.370293	2/2/15	17:15	1234.686	0.579791	7.158604	mg/L
CCV	Mo 204.597	0.372365	2/2/15	17:15	1479.844	0.581152	8.600148	mg/L
CCV	Cr 205.560	0.438074	2/2/15	17:15	5382.777	0.628024	33.80511	mg/L
CCV	Mn 260.568	0.535845	2/2/15	17:15	125556.1	0.637566	800.5026	mg/L
CCV	Ni 221.648	0.472554	2/2/15	17:15	1855.975	0.193462	3.590605	mg/L
CCV	Mg 279.077	0.439892	2/2/15	17:15	5895.248	0.500784	29.52248	mg/L
CCV	Sb 206.836	0.579943	2/2/15	17:15	679.8877	0.323534	2.199669	mg/L
CCV	Sb 217.582	0.523531	2/2/15	17:15	626.7714	0.959421	6.013375	mg/L
CCV	Sb 231.146	1.30185	2/2/15	17:15	3304.29	0.842226	27.82958	mg/L
CCV	Cr 284.325	0.532633	2/2/15	17:15	36246.09	0.687146	249.0637	mg/L
CCV	Cd 228.802	0.495747	2/2/15	17:15	13142.89	0.540944	71.09561	mg/L
CCV	Cd 214.440	0.47974	2/2/15	17:15	21646.79	0.56359	121.9991	mg/L
CCV	Cd 226.502	0.493461	2/2/15	17:15	16807.68	0.640456	107.6458	mg/L
CCV	Cu 324.752	0.548111	2/2/15	17:15	167832.6	0.354315	594.6564	mg/L
CCV	Cu 327.393	0.541596	2/2/15	17:15	62852.67	0.656633	412.7117	mg/L
CCV	Co 238.892	0.033313	2/2/15	17:15	1306.722	1.855566	24.24709	mg/L
CCV	Fe 239.562	0.467036	2/2/15	17:15	16456.6	0.679801	111.8722	mg/L
CCV	Fe 259.939	0.500499	2/2/15	17:15	59311.39	0.796539	472.4385	mg/L
CCV	Fe 234.349	0.467257	2/2/15	17:15	10961.75	0.850417	93.22063	mg/L
CCV	Mn 259.372	0.45436	2/2/15	17:15	206398.9	0.23745	490.0938	mg/L
CCV	Cr 267.716	0.529463	2/2/15	17:15	23437.23	0.679117	159.1662	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	120.0305	2/2/15	17:19	2767664	0.377963	10460.75	%
CCB	Al 394.401	0.024766	2/2/15	17:19	479.8343	0.7792	3.738866	mg/L
CCB	B 249.772	0.043668	2/2/15	17:19	3195.474	2.889147	92.32193	mg/L
CCB	Ba 233.527	-0.00381	2/2/15	17:19	-8.45933	22.47544	1.901272	mg/L
CCB	Ba 413.065	-0.00624	2/2/15	17:19	-269.329	13.53714	36.45951	mg/L
CCB	Be 234.861	0.00161	2/2/15	17:19	107.5411	7.390139	7.947441	mg/L
CCB	Be 313.042	0.004269	2/2/15	17:19	21518.09	1.413601	304.1798	mg/L
CCB	Fe 238.204	-0.0158	2/2/15	17:19	125.0545	5.611795	7.017801	mg/L
CCB	Pb 220.353	-0.00947	2/2/15	17:19	-75.2694	1.867464	1.405628	mg/L
CCB	Mn 257.610	-0.00113	2/2/15	17:19	108.5266	1.365447	1.481874	mg/L
CCB	Ni 231.604	0.002493	2/2/15	17:19	49.11086	2.230082	1.095213	mg/L
CCB	Se 196.026	-0.01386	2/2/15	17:19	0.330674	425.9717	1.408579	mg/L
CCB	Ag 328.068	-0.01161	2/2/15	17:19	-616.624	7.180613	44.27739	mg/L
CCB	Ag 338.289	0.003972	2/2/15	17:19	16.38622	60.35554	9.889994	mg/L
CCB	Tl 351.924	-0.00423	2/2/15	17:19	-4.63405	494.202	22.90157	mg/L
CCB	As 193.696	-0.00212	2/2/15	17:19	0.304394	632.3546	1.92485	mg/L
CCB	As 197.197	-0.03737	2/2/15	17:19	-1.90212	37.15959	0.706821	mg/L
CCB	Ba 230.425	-0.01849	2/2/15	17:19	35.16396	6.173235	2.170754	mg/L
CCB	V 292.402	0.00462	2/2/15	17:19	21.3316	49.46938	10.55261	mg/L
CCB	Zn 213.857	-0.0568	2/2/15	17:19	-3042.34	0.053958	1.64159	mg/L
CCB	Zn 202.548	-0.04055	2/2/15	17:19	-1278.77	0.039447	0.504437	mg/L
CCB	Mo 203.845	-0.07703	2/2/15	17:19	7.009587	38.46343	2.696127	mg/L
CCB	Mo 204.597	-0.07365	2/2/15	17:19	16.69274	10.38916	1.734236	mg/L
CCB	Cr 205.560	-0.00369	2/2/15	17:19	1.539959	133.5039	2.055906	mg/L
CCB	Mn 260.568	0.000826	2/2/15	17:19	64.11854	5.946731	3.812957	mg/L
CCB	Ni 221.648	-0.00244	2/2/15	17:19	-19.888	8.777753	1.745716	mg/L
CCB	Mg 279.077	-0.14211	2/2/15	17:19	41.9215	16.52483	6.927458	mg/L
CCB	Sb 206.836	0.079087	2/2/15	17:19	-0.74733	313.7391	2.344666	mg/L
CCB	Sb 217.582	0.012814	2/2/15	17:19	-0.85723	38.40492	0.329219	mg/L
CCB	Sb 231.146	0.012033	2/2/15	17:19	8.391162	34.25417	2.874323	mg/L
CCB	Cr 284.325	0.009995	2/2/15	17:19	857.8163	5.977752	51.27813	mg/L
CCB	Cd 228.802	-0.00258	2/2/15	17:19	-25.8325	10.49366	2.710779	mg/L
CCB	Cd 214.440	0.000129	2/2/15	17:19	39.80334	5.806456	2.311163	mg/L
CCB	Cd 226.502	-0.00092	2/2/15	17:19	23.59501	10.37643	2.44832	mg/L
CCB	Cu 324.752	0.002324	2/2/15	17:19	1125.252	4.040716	45.46824	mg/L
CCB	Cu 327.393	-0.00079	2/2/15	17:19	-563.212	1.528736	8.61003	mg/L
CCB	Co 238.892	-0.00809	2/2/15	17:19	17.24905	39.77614	6.861006	mg/L
CCB	Fe 239.562	-0.01365	2/2/15	17:19	140.6719	4.179685	5.879642	mg/L
CCB	Fe 259.939	-0.01364	2/2/15	17:19	356.4091	8.259967	29.43928	mg/L
CCB	Fe 234.349	-0.02649	2/2/15	17:19	-176.468	0.396191	0.699152	mg/L
CCB	Mn 259.372	-0.03278	2/2/15	17:19	125.9721	3.494174	4.401683	mg/L
CCB	Cr 267.716	-0.00074	2/2/15	17:19	32.50735	16.34151	5.312193	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	92.23403	2/2/15	18:21	2126733	0.477761	10160.7	%
CCV	Al 394.401	0.60041	2/2/15	18:21	18694.51	0.603554	112.8315	mg/L
CCV	B 249.772	0.587904	2/2/15	18:21	34383.73	0.685826	235.8125	mg/L
CCV	Ba 233.527	0.431252	2/2/15	18:21	17558.35	0.538739	94.59361	mg/L
CCV	Ba 413.065	0.504232	2/2/15	18:21	52638.32	0.559687	294.6099	mg/L
CCV	Be 234.861	0.535044	2/2/15	18:21	231863.6	0.32962	764.2687	mg/L
CCV	Be 313.042	0.5206	2/2/15	18:21	2161372	0.396673	8573.582	mg/L
CCV	Fe 238.204	0.444955	2/2/15	18:21	17531.42	0.41046	71.9595	mg/L
CCV	Pb 220.353	0.408069	2/2/15	18:22	1103.171	0.09828	1.084197	mg/L
CCV	Mn 257.610	0.471005	2/2/15	18:21	208552.1	0.372309	776.4577	mg/L
CCV	Ni 231.604	0.427176	2/2/15	18:21	7984.345	0.714677	57.06227	mg/L
CCV	Se 196.026	0.549561	2/2/15	18:22	213.9145	2.203286	4.713148	mg/L
CCV	Ag 328.068	0.47625	2/2/15	18:21	88701.12	0.456404	404.8354	mg/L
CCV	Ag 338.289	0.423393	2/2/15	18:21	54999.82	0.518628	285.2445	mg/L
CCV	Tl 351.924	0.538331	2/2/15	18:21	2411.338	1.215594	29.31209	mg/L
CCV	As 193.696	0.496827	2/2/15	18:22	238.4625	0.474069	1.130476	mg/L
CCV	As 197.197	0.479293	2/2/15	18:22	118.9474	1.621659	1.928922	mg/L
CCV	Ba 230.425	0.392553	2/2/15	18:21	18718.98	0.680666	127.4137	mg/L
CCV	V 292.402	0.453368	2/2/15	18:21	39723.05	0.508071	201.8214	mg/L
CCV	Zn 213.857	0.490362	2/2/15	18:21	15230.53	0.512733	78.09204	mg/L
CCV	Zn 202.548	0.367016	2/2/15	18:21	4611.306	0.702491	32.39402	mg/L
CCV	Mo 203.845	0.327925	2/2/15	18:22	1118.407	0.563687	6.304319	mg/L
CCV	Mo 204.597	0.332604	2/2/15	18:22	1349.409	0.684351	9.23469	mg/L
CCV	Cr 205.560	0.393739	2/2/15	18:21	4842.714	0.801709	38.82446	mg/L
CCV	Mn 260.568	0.488201	2/2/15	18:21	114380.9	0.59743	683.3459	mg/L
CCV	Ni 221.648	0.422504	2/2/15	18:22	1658.317	0.323025	5.356772	mg/L
CCV	Mg 279.077	0.410566	2/2/15	18:21	5600.311	0.507307	28.41076	mg/L
CCV	Sb 206.836	0.554269	2/2/15	18:22	644.9976	0.711288	4.587788	mg/L
CCV	Sb 217.582	0.501187	2/2/15	18:22	599.3134	0.372192	2.230596	mg/L
CCV	Sb 231.146	1.173717	2/2/15	18:22	2976.869	0.567789	16.90232	mg/L
CCV	Cr 284.325	0.486725	2/2/15	18:21	33137.6	0.615885	204.0895	mg/L
CCV	Cd 228.802	0.464405	2/2/15	18:21	12314.63	0.335906	41.3656	mg/L
CCV	Cd 214.440	0.429207	2/2/15	18:21	19370.21	0.547682	106.0872	mg/L
CCV	Cd 226.502	0.444715	2/2/15	18:21	15152.76	0.422938	64.08684	mg/L
CCV	Cu 324.752	0.516734	2/2/15	18:21	158248.7	0.496446	785.6189	mg/L
CCV	Cu 327.393	0.503771	2/2/15	18:21	58430.23	0.605325	353.6928	mg/L
CCV	Co 238.892	0.031213	2/2/15	18:21	1241.317	2.142562	26.596	mg/L
CCV	Fe 239.562	0.432076	2/2/15	18:21	15269.96	0.35711	54.53055	mg/L
CCV	Fe 259.939	0.465872	2/2/15	18:21	55340.83	0.300106	166.0814	mg/L
CCV	Fe 234.349	0.427168	2/2/15	18:21	10057.38	0.431592	43.40686	mg/L
CCV	Mn 259.372	0.40881	2/2/15	18:21	187111.1	0.405568	758.8624	mg/L
CCV	Cr 267.716	0.472312	2/2/15	18:21	20914.38	0.44506	93.08146	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	113.951	2/2/15	18:26	2627482	0.633892	16655.39	%
CCB	Al 394.401	0.042606	2/2/15	18:26	1044.313	4.735141	49.4497	mg/L
CCB	B 249.772	0.035183	2/2/15	18:26	2709.113	1.810466	49.04759	mg/L
CCB	Ba 233.527	-0.0037	2/2/15	18:26	-4.10532	20.77966	0.853071	mg/L
CCB	Ba 413.065	-0.00631	2/2/15	18:26	-276.414	5.000887	13.82313	mg/L
CCB	Be 234.861	0.001625	2/2/15	18:26	114.0746	1.285936	1.466926	mg/L
CCB	Be 313.042	0.004935	2/2/15	18:26	24280.57	0.542813	131.798	mg/L
CCB	Fe 238.204	-0.00914	2/2/15	18:26	376.9349	10.70743	40.36006	mg/L
CCB	Pb 220.353	-0.00906	2/2/15	18:26	-74.1262	2.327216	1.725078	mg/L
CCB	Mn 257.610	-0.00083	2/2/15	18:26	238.9181	16.49097	39.39992	mg/L
CCB	Ni 231.604	0.002312	2/2/15	18:26	45.74246	6.323643	2.89259	mg/L
CCB	Se 196.026	-0.01161	2/2/15	18:26	1.18545	102.9128	1.21998	mg/L
CCB	Ag 328.068	-0.00914	2/2/15	18:26	-164.118	18.71714	30.71827	mg/L
CCB	Ag 338.289	0.003739	2/2/15	18:26	-14.1482	318.9457	45.12497	mg/L
CCB	Tl 351.924	-0.00189	2/2/15	18:26	5.754585	244.2486	14.05549	mg/L
CCB	As 193.696	-0.00406	2/2/15	18:26	-0.62197	36.38671	0.226315	mg/L
CCB	As 197.197	-0.04181	2/2/15	18:26	-2.94024	15.75776	0.463316	mg/L
CCB	Ba 230.425	-0.01833	2/2/15	18:26	42.29925	4.714406	1.994158	mg/L
CCB	V 292.402	0.004571	2/2/15	18:26	17.06843	93.41735	15.94487	mg/L
CCB	Zn 213.857	-0.05091	2/2/15	18:26	-2845.84	0.172275	4.902679	mg/L
CCB	Zn 202.548	-0.03644	2/2/15	18:26	-1219.43	0.237193	2.89241	mg/L
CCB	Mo 203.845	-0.07816	2/2/15	18:26	3.902809	38.03936	1.484603	mg/L
CCB	Mo 204.597	-0.07408	2/2/15	18:26	15.27836	17.95807	2.743699	mg/L
CCB	Cr 205.560	-0.00332	2/2/15	18:26	6.006488	38.06023	2.286083	mg/L
CCB	Mn 260.568	0.001163	2/2/15	18:26	143.1999	16.95228	24.27565	mg/L
CCB	Ni 221.648	-0.00432	2/2/15	18:26	-27.3073	2.577827	0.703936	mg/L
CCB	Mg 279.077	-0.11384	2/2/15	18:26	326.2401	23.27607	75.93588	mg/L
CCB	Sb 206.836	0.080672	2/2/15	18:26	1.406976	127.0507	1.787573	mg/L
CCB	Sb 217.582	0.013116	2/2/15	18:26	-0.48636	585.3447	2.846866	mg/L
CCB	Sb 231.146	0.011979	2/2/15	18:26	8.252784	22.00616	1.816121	mg/L
CCB	Cr 284.325	0.009747	2/2/15	18:26	840.9662	4.471826	37.60654	mg/L
CCB	Cd 228.802	-0.00273	2/2/15	18:26	-29.7621	2.927247	0.871209	mg/L
CCB	Cd 214.440	0.000147	2/2/15	18:26	40.59739	15.69881	6.373309	mg/L
CCB	Cd 226.502	-0.00095	2/2/15	18:26	22.62574	26.54081	6.005053	mg/L
CCB	Cu 324.752	0.001184	2/2/15	18:26	777.1253	4.535776	35.24866	mg/L
CCB	Cu 327.393	-0.00265	2/2/15	18:26	-780.382	1.452306	11.33353	mg/L
CCB	Co 238.892	-0.00673	2/2/15	18:26	59.5502	12.12754	7.221972	mg/L
CCB	Fe 239.562	-0.00717	2/2/15	18:26	360.6727	9.200875	33.18504	mg/L
CCB	Fe 259.939	-0.00663	2/2/15	18:26	1159.284	10.89257	126.2759	mg/L
CCB	Fe 234.349	-0.02046	2/2/15	18:26	-40.5195	72.00124	29.17452	mg/L
CCB	Mn 259.372	-0.0325	2/2/15	18:26	245.7437	12.96379	31.85768	mg/L
CCB	Cr 267.716	-0.00083	2/2/15	18:26	28.57455	12.3177	3.519727	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	93.7403	2/2/15	19:28	2161464	0.393709	8509.872	%
CCV	Al 394.401	0.603272	2/2/15	19:29	18785.07	0.715738	134.4518	mg/L
CCV	B 249.772	0.62469	2/2/15	19:29	36491.81	0.386769	141.1391	mg/L
CCV	Ba 233.527	0.470883	2/2/15	19:29	19158.58	0.663693	127.1541	mg/L
CCV	Ba 413.065	0.544321	2/2/15	19:29	56793.36	0.217449	123.4968	mg/L
CCV	Be 234.861	0.594866	2/2/15	19:29	257853.8	0.254276	655.6597	mg/L
CCV	Be 313.042	0.584084	2/2/15	19:29	2424472	0.238493	5782.207	mg/L
CCV	Fe 238.204	0.550442	2/2/15	19:29	21516.47	2.133734	459.1042	mg/L
CCV	Pb 220.353	0.45008	2/2/15	19:29	1221.742	0.165527	2.022313	mg/L
CCV	Mn 257.610	0.514641	2/2/15	19:29	227816.8	0.297859	678.5718	mg/L
CCV	Ni 231.604	0.477286	2/2/15	19:29	8920.644	0.83254	74.26796	mg/L
CCV	Se 196.026	0.566532	2/2/15	19:29	220.3479	0.923238	2.034335	mg/L
CCV	Ag 328.068	0.488172	2/2/15	19:29	90883.75	0.454648	413.2011	mg/L
CCV	Ag 338.289	0.438233	2/2/15	19:29	56945.24	0.591108	336.6078	mg/L
CCV	Tl 351.924	0.554144	2/2/15	19:29	2481.75	0.134103	3.328107	mg/L
CCV	As 193.696	0.53452	2/2/15	19:29	256.4543	0.938892	2.407828	mg/L
CCV	As 197.197	0.521028	2/2/15	19:29	128.7095	1.862792	2.397589	mg/L
CCV	Ba 230.425	0.428991	2/2/15	19:29	20375.28	0.577559	117.6792	mg/L
CCV	V 292.402	0.483961	2/2/15	19:29	42429.71	0.475156	201.6074	mg/L
CCV	Zn 213.857	0.555281	2/2/15	19:29	17398.54	0.660897	114.9864	mg/L
CCV	Zn 202.548	0.478626	2/2/15	19:29	6224.277	1.043953	64.97855	mg/L
CCV	Mo 203.845	0.366325	2/2/15	19:29	1223.795	0.32839	4.018824	mg/L
CCV	Mo 204.597	0.374066	2/2/15	19:29	1485.424	0.015771	0.234266	mg/L
CCV	Cr 205.560	0.435686	2/2/15	19:29	5353.689	0.441976	23.662	mg/L
CCV	Mn 260.568	0.533913	2/2/15	19:29	125102.9	0.586593	733.8447	mg/L
CCV	Ni 221.648	0.474146	2/2/15	19:29	1862.26	0.408474	7.606849	mg/L
CCV	Mg 279.077	0.465042	2/2/15	19:29	6148.183	0.568068	34.92583	mg/L
CCV	Sb 206.836	0.58698	2/2/15	19:29	689.4499	0.213632	1.472887	mg/L
CCV	Sb 217.582	0.511936	2/2/15	19:29	612.5221	0.615751	3.771611	mg/L
CCV	Sb 231.146	1.292309	2/2/15	19:29	3279.911	0.440369	14.4437	mg/L
CCV	Cr 284.325	0.511562	2/2/15	19:29	34819.37	0.614628	214.0096	mg/L
CCV	Cd 228.802	0.511765	2/2/15	19:29	13566.17	0.680419	92.30676	mg/L
CCV	Cd 214.440	0.515383	2/2/15	19:29	23252.56	0.668272	155.3904	mg/L
CCV	Cd 226.502	0.510549	2/2/15	19:29	17387.8	0.446729	77.67636	mg/L
CCV	Cu 324.752	0.517984	2/2/15	19:29	158630.5	0.391015	620.2694	mg/L
CCV	Cu 327.393	0.504893	2/2/15	19:29	58561.39	0.427018	250.0674	mg/L
CCV	Co 238.892	0.047649	2/2/15	19:29	1753.248	4.998507	87.63622	mg/L
CCV	Fe 239.562	0.531088	2/2/15	19:29	18630.71	2.058401	383.4947	mg/L
CCV	Fe 259.939	0.561146	2/2/15	19:29	66265.73	2.095578	1388.65	mg/L
CCV	Fe 234.349	0.527523	2/2/15	19:29	12321.26	2.050605	252.6603	mg/L
CCV	Mn 259.372	0.447458	2/2/15	19:29	203476	0.246424	501.4136	mg/L
CCV	Cr 267.716	0.518351	2/2/15	19:29	22946.71	0.631604	144.9324	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	104.713	2/2/15	19:33	2414472	0.422445	10199.81	%
CCB	Al 394.401	0.033271	2/2/15	19:33	748.9343	20.05339	150.1867	mg/L
CCB	B 249.772	0.01757	2/2/15	19:33	1699.87	5.003053	85.04537	mg/L
CCB	Ba 233.527	-0.00359	2/2/15	19:33	0.442203	649.1758	2.870674	mg/L
CCB	Ba 413.065	-0.0041	2/2/15	19:33	-47.4504	109.1232	51.77935	mg/L
CCB	Be 234.861	0.001466	2/2/15	19:33	45.1296	31.10932	14.03951	mg/L
CCB	Be 313.042	0.002945	2/2/15	19:33	16031.76	2.388259	382.88	mg/L
CCB	Fe 238.204	0.061917	2/2/15	19:33	3061.139	24.22067	741.4285	mg/L
CCB	Pb 220.353	-0.00914	2/2/15	19:33	-74.3593	3.130534	2.327845	mg/L
CCB	Mn 257.610	0.000241	2/2/15	19:33	713.1185	15.49676	110.5102	mg/L
CCB	Ni 231.604	0.002151	2/2/15	19:33	42.7322	8.505216	3.634466	mg/L
CCB	Se 196.026	-0.01286	2/2/15	19:33	0.710462	430.9951	3.062057	mg/L
CCB	Ag 328.068	-0.00708	2/2/15	19:33	212.7567	1.564134	3.3278	mg/L
CCB	Ag 338.289	0.00369	2/2/15	19:33	-20.546	216.9164	44.56762	mg/L
CCB	Tl 351.924	-0.00503	2/2/15	19:33	-8.22341	372.0669	30.59657	mg/L
CCB	As 193.696	-0.00243	2/2/15	19:33	0.154488	168.915	0.260953	mg/L
CCB	As 197.197	-0.03207	2/2/15	19:33	-0.66222	140.5227	0.930567	mg/L
CCB	Ba 230.425	-0.01835	2/2/15	19:33	41.38387	3.92189	1.62303	mg/L
CCB	V 292.402	0.004609	2/2/15	19:33	20.36626	108.8487	22.16841	mg/L
CCB	Zn 213.857	-0.05743	2/2/15	19:33	-3063.62	0.139447	4.272111	mg/L
CCB	Zn 202.548	-0.04109	2/2/15	19:33	-1286.64	0.075592	0.972596	mg/L
CCB	Mo 203.845	-0.07789	2/2/15	19:33	4.651858	34.04089	1.583534	mg/L
CCB	Mo 204.597	-0.07342	2/2/15	19:33	17.43973	19.75976	3.446047	mg/L
CCB	Cr 205.560	-0.00333	2/2/15	19:33	5.915765	40.7978	2.413502	mg/L
CCB	Mn 260.568	0.00223	2/2/15	19:33	393.5229	15.41494	60.66129	mg/L
CCB	Ni 221.648	-0.00073	2/2/15	19:33	-13.1115	23.29213	3.053958	mg/L
CCB	Mg 279.077	-0.10796	2/2/15	19:33	385.3588	17.59343	67.79782	mg/L
CCB	Sb 206.836	0.081403	2/2/15	19:33	2.400779	57.67447	1.384637	mg/L
CCB	Sb 217.582	0.012696	2/2/15	19:33	-1.00188	243.6943	2.441526	mg/L
CCB	Sb 231.146	0.01282	2/2/15	19:33	10.40192	69.86396	7.267191	mg/L
CCB	Cr 284.325	-0.00989	2/2/15	19:33	-488.475	9.931286	48.51182	mg/L
CCB	Cd 228.802	-0.00229	2/2/15	19:33	-18.1569	9.205477	1.671427	mg/L
CCB	Cd 214.440	0.000274	2/2/15	19:33	46.33619	10.17097	4.712838	mg/L
CCB	Cd 226.502	-0.00086	2/2/15	19:33	25.77262	10.7299	2.765377	mg/L
CCB	Cu 324.752	-0.00127	2/2/15	19:33	27.09805	145.8164	39.5134	mg/L
CCB	Cu 327.393	-0.00026	2/2/15	19:33	-501.161	5.966204	29.90031	mg/L
CCB	Co 238.892	0.010764	2/2/15	19:33	604.3999	19.01684	114.9378	mg/L
CCB	Fe 239.562	0.060092	2/2/15	19:33	2643.785	23.85711	630.7306	mg/L
CCB	Fe 259.939	0.064286	2/2/15	19:33	9291.54	24.36794	2264.157	mg/L
CCB	Fe 234.349	0.047604	2/2/15	19:33	1494.909	28.37179	424.1324	mg/L
CCB	Mn 259.372	-0.03141	2/2/15	19:33	703.8931	14.63901	103.0429	mg/L
CCB	Cr 267.716	-0.00063	2/2/15	19:33	37.44682	18.8165	7.046181	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCV	Y 371.029	82.48919	2/2/15	20:18	1902036	0.387196	7364.616	%
CCV	Al 394.401	0.56277	2/2/15	20:18	17503.51	2.073301	362.9004	mg/L
CCV	B 249.772	0.599181	2/2/15	20:18	35030	0.238278	83.46866	mg/L
CCV	Ba 233.527	0.42545	2/2/15	20:18	17324.05	0.348386	60.35451	mg/L
CCV	Ba 413.065	0.49024	2/2/15	20:18	51188.16	0.329769	168.8025	mg/L
CCV	Be 234.861	0.582593	2/2/15	20:18	252521.6	0.182999	462.1125	mg/L
CCV	Be 313.042	0.551275	2/2/15	20:18	2288500	0.130455	2985.461	mg/L
CCV	Fe 238.204	0.593626	2/2/15	20:18	23147.87	5.154073	1193.058	mg/L
CCV	Pb 220.353	0.407645	2/2/15	20:18	1101.976	0.311638	3.434173	mg/L
CCV	Mn 257.610	0.47949	2/2/15	20:18	212297.9	0.371708	789.1283	mg/L
CCV	Ni 231.604	0.437144	2/2/15	20:18	8170.596	0.344224	28.12514	mg/L
CCV	Se 196.026	0.562914	2/2/15	20:18	218.9762	1.077117	2.358631	mg/L
CCV	Ag 328.068	0.450693	2/2/15	20:18	84022.29	0.391509	328.9549	mg/L
CCV	Ag 338.289	0.402568	2/2/15	20:18	52269.83	0.446314	233.2876	mg/L
CCV	Tl 351.924	0.500611	2/2/15	20:18	2243.372	0.440372	9.879184	mg/L
CCV	As 193.696	0.519456	2/2/15	20:18	249.2639	0.561014	1.398406	mg/L
CCV	As 197.197	0.510954	2/2/15	20:18	126.3532	1.20763	1.525879	mg/L
CCV	Ba 230.425	0.385196	2/2/15	20:18	18384.57	0.172582	31.72849	mg/L
CCV	V 292.402	0.438392	2/2/15	20:18	38398.15	0.294802	113.1985	mg/L
CCV	Zn 213.857	0.531851	2/2/15	20:18	16616.09	0.328015	54.50333	mg/L
CCV	Zn 202.548	0.444042	2/2/15	20:18	5724.468	0.316386	18.1114	mg/L
CCV	Mo 203.845	0.329976	2/2/15	20:18	1124.037	0.230775	2.593998	mg/L
CCV	Mo 204.597	0.337957	2/2/15	20:18	1366.97	0.51271	7.008585	mg/L
CCV	Cr 205.560	0.398988	2/2/15	20:18	4906.656	0.242752	11.91101	mg/L
CCV	Mn 260.568	0.497338	2/2/15	20:18	116524	0.510901	595.3223	mg/L
CCV	Ni 221.648	0.434657	2/2/15	20:18	1706.312	0.403719	6.888706	mg/L
CCV	Mg 279.077	0.453159	2/2/15	20:18	6028.678	2.410246	145.306	mg/L
CCV	Sb 206.836	0.559276	2/2/15	20:18	651.8015	0.521259	3.397576	mg/L
CCV	Sb 217.582	0.483294	2/2/15	20:18	577.3246	0.656793	3.791825	mg/L
CCV	Sb 231.146	1.175592	2/2/15	20:18	2981.66	0.510794	15.23013	mg/L
CCV	Cr 284.325	0.475142	2/2/15	20:18	32353.31	0.237758	76.92269	mg/L
CCV	Cd 228.802	0.483879	2/2/15	20:18	12829.25	0.347696	44.60684	mg/L
CCV	Cd 214.440	0.473313	2/2/15	20:18	21357.25	0.013913	2.971478	mg/L
CCV	Cd 226.502	0.465731	2/2/15	20:18	15866.25	0.198447	31.48611	mg/L
CCV	Cu 324.752	0.47553	2/2/15	20:18	145663.2	0.383051	557.965	mg/L
CCV	Cu 327.393	0.454368	2/2/15	20:18	52654.03	0.631924	332.7333	mg/L
CCV	Co 238.892	0.062141	2/2/15	20:18	2204.635	9.944128	219.2317	mg/L
CCV	Fe 239.562	0.570478	2/2/15	20:18	19967.74	5.097429	1017.841	mg/L
CCV	Fe 259.939	0.599847	2/2/15	20:18	70703.49	5.01127	3543.142	mg/L
CCV	Fe 234.349	0.561214	2/2/15	20:18	13081.29	5.157281	674.6391	mg/L
CCV	Mn 259.372	0.41061	2/2/15	20:18	187873.4	0.367739	690.8838	mg/L
CCV	Cr 267.716	0.470801	2/2/15	20:18	20847.7	0.149889	31.24839	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
CCB	Y 371.029	89.94332	2/2/15	20:22	2073913	0.194865	4041.326	%
CCB	Al 394.401	0.038909	2/2/15	20:22	927.3345	20.79686	192.8565	mg/L
CCB	B 249.772	0.018786	2/2/15	20:22	1769.536	4.003483	70.84308	mg/L
CCB	Ba 233.527	-0.00344	2/2/15	20:23	6.218947	1.720885	0.107021	mg/L
CCB	Ba 413.065	-0.00378	2/2/15	20:22	-14.7243	58.04939	8.547355	mg/L
CCB	Be 234.861	0.001373	2/2/15	20:23	4.470113	588.767	26.31855	mg/L
CCB	Be 313.042	0.002776	2/2/15	20:22	15330.3	0.3293	50.48266	mg/L
CCB	Fe 238.204	0.06259	2/2/15	20:22	3086.564	25.56658	789.1287	mg/L
CCB	Pb 220.353	-0.00743	2/2/15	20:23	-69.5249	0.182786	0.127082	mg/L
CCB	Mn 257.610	0.002312	2/2/15	20:23	1627.596	26.21778	426.7195	mg/L
CCB	Ni 231.604	0.00223	2/2/15	20:23	44.19881	17.25464	7.626346	mg/L
CCB	Se 196.026	-0.0079	2/2/15	20:23	2.592214	50.72361	1.314865	mg/L
CCB	Ag 328.068	-0.00239	2/2/15	20:22	1072.216	2.864623	30.71496	mg/L
CCB	Ag 338.289	0.002926	2/2/15	20:22	-120.737	31.05694	37.49726	mg/L
CCB	Tl 351.924	-0.00356	2/2/15	20:22	-1.68198	347.7843	5.849679	mg/L
CCB	As 193.696	-0.00413	2/2/15	20:23	-0.65666	342.5898	2.249643	mg/L
CCB	As 197.197	-0.03355	2/2/15	20:23	-1.00962	124.9506	1.261529	mg/L
CCB	Ba 230.425	-0.01825	2/2/15	20:23	45.99282	4.776143	2.196683	mg/L
CCB	V 292.402	0.004559	2/2/15	20:22	15.9855	103.6734	16.57271	mg/L
CCB	Zn 213.857	-0.05702	2/2/15	20:23	-3049.76	0.24226	7.388367	mg/L
CCB	Zn 202.548	-0.04137	2/2/15	20:23	-1290.58	0.301397	3.889757	mg/L
CCB	Mo 203.845	-0.07778	2/2/15	20:23	4.949887	100.6066	4.979913	mg/L
CCB	Mo 204.597	-0.07412	2/2/15	20:23	15.14742	14.92466	2.260701	mg/L
CCB	Cr 205.560	-0.00309	2/2/15	20:23	8.759785	39.78696	3.485252	mg/L
CCB	Mn 260.568	0.004352	2/2/15	20:23	891.3354	24.87993	221.7636	mg/L
CCB	Ni 221.648	-0.00407	2/2/15	20:23	-26.3324	8.606382	2.26627	mg/L
CCB	Mg 279.077	-0.10454	2/2/15	20:23	419.8387	27.86163	116.9739	mg/L
CCB	Sb 206.836	0.079918	2/2/15	20:23	0.382402	338.3308	1.293782	mg/L
CCB	Sb 217.582	0.014122	2/2/15	20:23	0.750419	392.6959	2.946866	mg/L
CCB	Sb 231.146	0.011632	2/2/15	20:23	7.365679	13.58534	1.000652	mg/L
CCB	Cr 284.325	-0.00606	2/2/15	20:22	-229.615	13.0706	30.01208	mg/L
CCB	Cd 228.802	-0.00258	2/2/15	20:23	-25.6608	13.787	3.537854	mg/L
CCB	Cd 214.440	0.000176	2/2/15	20:23	41.93196	1.345374	0.564142	mg/L
CCB	Cd 226.502	-0.00091	2/2/15	20:23	23.8505	12.16672	2.901824	mg/L
CCB	Cu 324.752	-0.00231	2/2/15	20:22	-289.234	20.34311	58.83915	mg/L
CCB	Cu 327.393	-0.00068	2/2/15	20:22	-549.856	1.79525	9.871291	mg/L
CCB	Co 238.892	0.01259	2/2/15	20:23	661.2652	28.4294	187.9937	mg/L
CCB	Fe 239.562	0.061376	2/2/15	20:22	2687.363	24.38811	655.3969	mg/L
CCB	Fe 259.939	0.064562	2/2/15	20:22	9323.242	25.54674	2381.785	mg/L
CCB	Fe 234.349	0.045973	2/2/15	20:22	1458.112	30.45306	444.0395	mg/L
CCB	Mn 259.372	-0.02954	2/2/15	20:23	1499.239	25.55937	383.1961	mg/L
CCB	Cr 267.716	-0.00066	2/2/15	20:23	36.14666	4.654144	1.682318	mg/L



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Metals

Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
MB	Y 371.029	1.13.9006	2/2/15	11:01	2626319	0.102751	2698.577	%
MB	Al 394.401	0.028662	2/2/15	11:01	603.0987	8.95349	53.99838	mg/L
MB	B 249.772	0.017517	2/2/15	11:02	1696.84	3.560549	60.41684	mg/L
MB	Ba 233.527	-0.00396	2/2/15	11:02	-14.5808	27.6648	4.033761	mg/L
MB	Ba 413.065	-0.00587	2/2/15	11:01	-231.212	24.05842	55.62587	mg/L
MB	Be 234.861	0.001569	2/2/15	11:02	89.79714	3.320873	2.982049	mg/L
MB	Be 313.042	0.00093	2/2/15	11:01	7681.116	7.888889	605.9547	mg/L
MB	Fe 238.204	0.004104	2/2/15	11:02	877.1088	6.866118	60.22333	mg/L
MB	Pb 220.353	-0.00711	2/2/15	11:02	-68.6133	3.938612	2.702412	mg/L
MB	Mn 257.610	-0.00059	2/2/15	11:02	346.582	8.236268	28.54542	mg/L
MB	Ni 231.604	0.002906	2/2/15	11:02	56.84001	10.59629	6.022933	mg/L
MB	Se 196.026	-0.01479	2/2/15	11:02	-0.02117	14404.33	3.048906	mg/L
MB	Ag 328.068	-0.01494	2/2/15	11:01	-1224.76	10.62756	130.1616	mg/L
MB	Ag 338.289	0.003788	2/2/15	11:01	-7.64228	265.705	20.30592	mg/L
MB	Tl 351.924	-0.00458	2/2/15	11:01	-6.19763	201.6581	12.49802	mg/L
MB	As 193.696	0.001084	2/2/15	11:02	1.831884	46.80457	0.857405	mg/L
MB	As 197.197	-0.03635	2/2/15	11:02	-1.664	17.71229	0.294732	mg/L
MB	Ba 230.425	-0.01858	2/2/15	11:02	31.06961	3.087878	0.959392	mg/L
MB	V 292.402	0.004492	2/2/15	11:01	10.05039	49.47396	4.972325	mg/L
MB	Zn 213.857	-0.05872	2/2/15	11:02	-3106.44	0.12691	3.942379	mg/L
MB	Zn 202.548	-0.04144	2/2/15	11:02	-1291.64	0.11965	1.545444	mg/L
MB	Mo 203.845	-0.0784	2/2/15	11:02	3.262868	22.21966	0.724998	mg/L
MB	Mo 204.597	-0.07367	2/2/15	11:02	16.61924	0.992893	0.165011	mg/L
MB	Cr 205.560	-0.0031	2/2/15	11:02	8.748675	35.8532	3.13668	mg/L
MB	Mn 260.568	0.001404	2/2/15	11:02	199.7757	1.09514	2.187824	mg/L
MB	Ni 221.648	0.000926	2/2/15	11:02	-6.58482	9.824429	0.646921	mg/L
MB	Mg 279.077	-0.0584	2/2/15	11:01	883.8372	9.250162	81.75637	mg/L
MB	Sb 206.836	0.078091	2/2/15	11:02	-2.10045	112.4599	2.36216	mg/L
MB	Sb 217.582	0.011965	2/2/15	11:02	-1.90053	133.7343	2.541668	mg/L
MB	Sb 231.146	0.01183	2/2/15	11:02	7.87142	40.9986	3.227172	mg/L
MB	Cr 284.325	0.002913	2/2/15	11:01	378.2604	21.20338	80.204	mg/L
MB	Cd 228.802	-0.00287	2/2/15	11:02	-33.45	6.823784	2.282557	mg/L
MB	Cd 214.440	0.000393	2/2/15	11:02	51.68299	5.580806	2.884328	mg/L
MB	Cd 226.502	-0.00086	2/2/15	11:02	25.50479	14.2354	3.630711	mg/L
MB	Cu 324.752	-0.00092	2/2/15	11:01	134.9835	16.44768	22.20165	mg/L
MB	Cu 327.393	0.000486	2/2/15	11:01	-413.606	6.604734	27.31757	mg/L
MB	Co 238.892	-0.00372	2/2/15	11:02	153.1149	7.441405	11.3939	mg/L
MB	Fe 239.562	0.00487	2/2/15	11:02	769.3965	7.286149	56.05938	mg/L
MB	Fe 259.939	0.003618	2/2/15	11:01	2334.926	10.94317	255.515	mg/L
MB	Fe 234.349	-0.00938	2/2/15	11:02	209.4805	18.74011	39.25689	mg/L
MB	Mn 259.372	-0.03224	2/2/15	11:02	354.7465	6.96016	24.69092	mg/L
MB	Cr 267.716	-0.00071	2/2/15	11:02	33.57804	18.63657	6.257794	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
LCS2	Y 371.029	104.3629	2/2/15	11:06	2406399	0.453623	10915.97	%
LCS2	Al 394.401	0.674906	2/2/15	11:06	21051.73	0.789331	166.1679	mg/L
LCS2	B 249.772	0.621742	2/2/15	11:06	36322.87	0.449896	163.415	mg/L
LCS2	Ba 233.527	0.498433	2/2/15	11:06	20270.97	0.3492	70.78623	mg/L
LCS2	Ba 413.065	0.560122	2/2/15	11:06	58431	0.210823	123.1861	mg/L
LCS2	Be 234.861	0.577816	2/2/15	11:06	250446.3	0.074863	187.4923	mg/L
LCS2	Be 313.042	0.575321	2/2/15	11:06	2388154	0.230604	5507.185	mg/L
LCS2	Fe 238.204	0.495058	2/2/15	11:06	19424.18	0.199787	38.807	mg/L
LCS2	Pb 220.353	0.472154	2/2/15	11:06	1284.043	0.610204	7.835286	mg/L
LCS2	Mn 257.610	0.530922	2/2/15	11:06	235004.8	0.208759	490.5941	mg/L
LCS2	Ni 231.604	0.503051	2/2/15	11:06	9402.075	0.392039	36.85981	mg/L
LCS2	Se 196.026	0.540794	2/2/15	11:06	210.591	1.773181	3.734161	mg/L
LCS2	Ag 328.068	0.521447	2/2/15	11:06	96975.77	0.345836	335.3772	mg/L
LCS2	Ag 338.289	0.471234	2/2/15	11:06	61271.39	0.291349	178.5138	mg/L
LCS2	Tl 351.924	0.560627	2/2/15	11:06	2510.62	0.731905	18.37536	mg/L
LCS2	As 193.696	0.492313	2/2/15	11:06	236.3078	0.555992	1.313853	mg/L
LCS2	As 197.197	0.503489	2/2/15	11:06	124.6071	1.921302	2.39408	mg/L
LCS2	Ba 230.425	0.461746	2/2/15	11:06	21864.13	0.269862	59.00305	mg/L
LCS2	V 292.402	0.527783	2/2/15	11:06	46306.77	0.142356	65.92068	mg/L
LCS2	Zn 213.857	0.537551	2/2/15	11:06	16806.45	0.220562	37.0687	mg/L
LCS2	Zn 202.548	0.445158	2/2/15	11:06	5740.601	0.989185	56.78515	mg/L
LCS2	Mo 203.845	0.384461	2/2/15	11:06	1273.571	0.265829	3.385519	mg/L
LCS2	Mo 204.597	0.377049	2/2/15	11:06	1495.209	0.275541	4.119917	mg/L
LCS2	Cr 205.560	0.467514	2/2/15	11:06	5741.39	0.333563	19.15113	mg/L
LCS2	Mn 260.568	0.551523	2/2/15	11:06	129233.4	0.222013	286.9155	mg/L
LCS2	Ni 221.648	0.502369	2/2/15	11:06	1973.72	0.180889	3.570237	mg/L
LCS2	Mg 279.077	0.488655	2/2/15	11:06	6385.667	0.302585	19.32206	mg/L
LCS2	Sb 206.836	0.587911	2/2/15	11:06	690.7153	0.057969	0.400402	mg/L
LCS2	Sb 217.582	0.523377	2/2/15	11:06	626.5831	0.414063	2.59445	mg/L
LCS2	Sb 231.146	1.408021	2/2/15	11:06	3575.592	0.717998	25.67267	mg/L
LCS2	Cr 284.325	0.546765	2/2/15	11:06	37202.98	0.092499	34.4124	mg/L
LCS2	Cd 228.802	0.508259	2/2/15	11:06	13473.52	0.170857	23.02044	mg/L
LCS2	Cd 214.440	0.50996	2/2/15	11:06	23008.21	0.497297	114.4192	mg/L
LCS2	Cd 226.502	0.524104	2/2/15	11:06	17848	0.331368	59.14257	mg/L
LCS2	Cu 324.752	0.531018	2/2/15	11:06	162611.8	0.223105	362.7949	mg/L
LCS2	Cu 327.393	0.550579	2/2/15	11:06	63902.99	0.633619	404.9015	mg/L
LCS2	Co 238.892	0.038484	2/2/15	11:06	1467.784	1.67052	24.51963	mg/L
LCS2	Fe 239.562	0.472916	2/2/15	11:06	16656.19	0.271215	45.17413	mg/L
LCS2	Fe 259.939	0.517569	2/2/15	11:06	61268.82	0.185258	113.5054	mg/L
LCS2	Fe 234.349	0.488379	2/2/15	11:06	11438.22	0.191102	21.85863	mg/L
LCS2	Mn 259.372	0.479595	2/2/15	11:06	217084.3	0.154164	334.6659	mg/L
LCS2	Cr 267.716	0.572513	2/2/15	11:06	25337.55	0.281945	71.43797	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
MB2	Y 371.029	120.1787	2/2/15	11:10	2771080	0.341803	9471.634	%
MB2	Al 394.401	0.03327	2/2/15	11:11	748.9124	5.199653	38.94085	mg/L
MB2	B 249.772	0.023397	2/2/15	11:11	2033.794	2.132116	43.36283	mg/L
MB2	Ba 233.527	-0.00378	2/2/15	11:11	-7.40022	14.14127	1.046485	mg/L
MB2	Ba 413.065	-0.00513	2/2/15	11:11	-154.379	7.534343	11.63143	mg/L
MB2	Be 234.861	0.00159	2/2/15	11:11	98.77177	2.66948	2.636693	mg/L
MB2	Be 313.042	0.000999	2/2/15	11:11	7965.802	1.054563	84.00444	mg/L
MB2	Fe 238.204	-0.00423	2/2/15	11:11	562.2387	4.938722	27.76741	mg/L
MB2	Pb 220.353	-0.00723	2/2/15	11:11	-68.9583	0.372185	0.256653	mg/L
MB2	Mn 257.610	-0.00073	2/2/15	11:11	285.1774	2.83195	8.076079	mg/L
MB2	Ni 231.604	0.002819	2/2/15	11:11	55.20666	8.750684	4.830961	mg/L
MB2	Se 196.026	-0.01838	2/2/15	11:11	-1.38282	128.4132	1.775719	mg/L
MB2	Ag 328.068	-0.0172	2/2/15	11:11	-1638.93	1.220351	20.00073	mg/L
MB2	Ag 338.289	0.003926	2/2/15	11:11	10.38993	228.0148	23.69058	mg/L
MB2	Tl 351.924	-0.00293	2/2/15	11:11	1.151215	1355.577	15.6056	mg/L
MB2	As 193.696	0.000769	2/2/15	11:11	1.681449	45.21012	0.760185	mg/L
MB2	As 197.197	-0.03158	2/2/15	11:11	-0.54727	309.1786	1.692035	mg/L
MB2	Ba 230.425	-0.0185	2/2/15	11:11	34.60651	14.91211	5.160559	mg/L
MB2	V 292.402	0.004489	2/2/15	11:11	9.747737	45.52	4.43717	mg/L
MB2	Zn 213.857	-0.05649	2/2/15	11:11	-3032.25	0.113845	3.452065	mg/L
MB2	Zn 202.548	-0.03966	2/2/15	11:11	-1265.86	0.081036	1.025805	mg/L
MB2	Mo 203.845	-0.07769	2/2/15	11:11	5.200271	44.41575	2.309739	mg/L
MB2	Mo 204.597	-0.07456	2/2/15	11:11	13.71832	17.11378	2.347724	mg/L
MB2	Cr 205.560	-0.00332	2/2/15	11:11	6.004577	58.89369	3.536317	mg/L
MB2	Mn 260.568	0.001236	2/2/15	11:11	160.4934	5.336251	8.564332	mg/L
MB2	Ni 221.648	-0.00155	2/2/15	11:11	-16.3564	5.768584	0.943534	mg/L
MB2	Mg 279.077	-0.08033	2/2/15	11:11	663.3141	5.262592	34.90751	mg/L
MB2	Sb 206.836	0.079041	2/2/15	11:11	-0.80975	579.2136	4.690168	mg/L
MB2	Sb 217.582	0.014049	2/2/15	11:11	0.660121	301.5404	1.990532	mg/L
MB2	Sb 231.146	0.01049	2/2/15	11:11	4.448288	19.87038	0.883892	mg/L
MB2	Cr 284.325	0.00663	2/2/15	11:11	629.9681	2.047249	12.89702	mg/L
MB2	Cd 228.802	-0.00267	2/2/15	11:11	-28.1898	9.858756	2.779167	mg/L
MB2	Cd 214.440	0.000247	2/2/15	11:11	45.10844	13.94453	6.290161	mg/L
MB2	Cd 226.502	-0.00071	2/2/15	11:11	30.86592	2.18803	0.675356	mg/L
MB2	Cu 324.752	-0.00017	2/2/15	11:11	364.8459	7.712119	28.13735	mg/L
MB2	Cu 327.393	0.000238	2/2/15	11:11	-442.542	3.86274	17.09425	mg/L
MB2	Co 238.892	-0.00568	2/2/15	11:11	92.33343	6.874574	6.347529	mg/L
MB2	Fe 239.562	-0.00316	2/2/15	11:11	496.6853	6.622822	32.89459	mg/L
MB2	Fe 259.939	-0.00171	2/2/15	11:11	1723.83	5.209401	89.80123	mg/L
MB2	Fe 234.349	-0.01739	2/2/15	11:11	28.73181	51.16043	14.69932	mg/L
MB2	Mn 259.372	-0.03239	2/2/15	11:11	290.4136	4.720076	13.70774	mg/L
MB2	Cr 267.716	-0.00058	2/2/15	11:11	39.34289	7.69817	3.028683	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
LCS3	Y 371.029	105.7035	2/2/15	11:15	2437312	0.434338	10586.17	%
LCS3	Al 394.401	0.686208	2/2/15	11:15	21409.37	0.414922	88.83228	mg/L
LCS3	B 249.772	0.632	2/2/15	11:15	36910.76	0.403935	149.0956	mg/L
LCS3	Ba 233.527	0.508631	2/2/15	11:15	20682.74	0.541739	112.0464	mg/L
LCS3	Ba 413.065	0.574224	2/2/15	11:15	59892.62	0.563089	337.2488	mg/L
LCS3	Be 234.861	0.585117	2/2/15	11:15	253618.2	0.45543	1155.053	mg/L
LCS3	Be 313.042	0.586217	2/2/15	11:15	2433313	0.567829	13817.05	mg/L
LCS3	Fe 238.204	0.499033	2/2/15	11:15	19574.34	0.371184	72.65675	mg/L
LCS3	Pb 220.353	0.482519	2/2/15	11:16	1313.299	0.142766	1.874948	mg/L
LCS3	Mn 257.610	0.541723	2/2/15	11:15	239773.2	0.586817	1407.029	mg/L
LCS3	Ni 231.604	0.510798	2/2/15	11:15	9546.829	0.290814	27.76355	mg/L
LCS3	Se 196.026	0.547298	2/2/15	11:16	213.0565	2.235263	4.762374	mg/L
LCS3	Ag 328.068	0.525073	2/2/15	11:15	97639.63	0.264289	258.0504	mg/L
LCS3	Ag 338.289	0.475143	2/2/15	11:15	61783.87	0.212297	131.1655	mg/L
LCS3	Tl 351.924	0.568742	2/2/15	11:15	2546.756	0.609766	15.52926	mg/L
LCS3	As 193.696	0.504661	2/2/15	11:16	242.202	0.466028	1.12873	mg/L
LCS3	As 197.197	0.518111	2/2/15	11:16	128.0272	2.646063	3.38768	mg/L
LCS3	Ba 230.425	0.470555	2/2/15	11:15	22264.55	0.347341	77.33383	mg/L
LCS3	V 292.402	0.533797	2/2/15	11:15	46838.81	0.434447	203.4899	mg/L
LCS3	Zn 213.857	0.548613	2/2/15	11:15	17175.88	0.408076	70.09062	mg/L
LCS3	Zn 202.548	0.460821	2/2/15	11:15	5966.957	0.672271	40.11411	mg/L
LCS3	Mo 203.845	0.391231	2/2/15	11:16	1292.15	0.610661	7.890658	mg/L
LCS3	Mo 204.597	0.384823	2/2/15	11:16	1520.714	0.278114	4.229312	mg/L
LCS3	Cr 205.560	0.475494	2/2/15	11:15	5838.601	0.282912	16.5181	mg/L
LCS3	Mn 260.568	0.560685	2/2/15	11:15	131382.5	0.432019	567.5979	mg/L
LCS3	Ni 221.648	0.506635	2/2/15	11:15	1990.566	0.71134	14.1597	mg/L
LCS3	Mg 279.077	0.476188	2/2/15	11:15	6260.287	0.23862	14.93827	mg/L
LCS3	Sb 206.836	0.590766	2/2/15	11:16	694.5952	0.630264	4.377783	mg/L
LCS3	Sb 217.582	0.532913	2/2/15	11:16	638.3014	0.862949	5.508218	mg/L
LCS3	Sb 231.146	1.428902	2/2/15	11:15	3628.951	0.600155	21.77931	mg/L
LCS3	Cr 284.325	0.55362	2/2/15	11:15	37667.16	0.308969	116.3798	mg/L
LCS3	Cd 228.802	0.512971	2/2/15	11:15	13598.04	0.409174	55.63964	mg/L
LCS3	Cd 214.440	0.521372	2/2/15	11:15	23522.34	0.293503	69.03868	mg/L
LCS3	Cd 226.502	0.533741	2/2/15	11:15	18175.16	0.500358	90.9408	mg/L
LCS3	Cu 324.752	0.539367	2/2/15	11:15	165161.9	0.112513	185.8286	mg/L
LCS3	Cu 327.393	0.555555	2/2/15	11:15	64484.83	0.246649	159.0509	mg/L
LCS3	Co 238.892	0.038085	2/2/15	11:15	1455.363	0.97006	14.11789	mg/L
LCS3	Fe 239.562	0.47836	2/2/15	11:15	16840.99	0.40141	67.60135	mg/L
LCS3	Fe 259.939	0.522144	2/2/15	11:15	61793.47	0.455445	281.4351	mg/L
LCS3	Fe 234.349	0.493731	2/2/15	11:15	11558.97	0.243772	28.17752	mg/L
LCS3	Mn 259.372	0.489975	2/2/15	11:15	221479.4	0.545137	1207.366	mg/L
LCS3	Cr 267.716	0.578346	2/2/15	11:15	25595.05	0.554297	141.8725	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
MB3	Y 371.029	111.8724	2/2/15	10:09	2579554	0.318163	8207.198	%
MB3	Al 394.401	0.029665	2/2/15	10:09	634.8388	3.243828	20.59308	mg/L
MB3	B 249.772	0.026742	2/2/15	10:09	2225.475	2.216277	49.3227	mg/L
MB3	Ba 233.527	-0.00408	2/2/15	10:10	-19.3279	7.627147	1.474165	mg/L
MB3	Ba 413.065	-0.00557	2/2/15	10:09	-199.867	30.33066	60.62103	mg/L
MB3	Be 234.861	0.001569	2/2/15	10:10	89.77407	4.315647	3.874332	mg/L
MB3	Be 313.042	0.000355	2/2/15	10:09	5296.768	3.542961	187.6624	mg/L
MB3	Fe 238.204	-0.01483	2/2/15	10:10	161.8857	15.03294	24.33617	mg/L
MB3	Pb 220.353	-0.00842	2/2/15	10:10	-72.3055	2.727824	1.972365	mg/L
MB3	Mn 257.610	-0.00104	2/2/15	10:10	149.543	0.470294	0.703292	mg/L
MB3	Ni 231.604	0.002963	2/2/15	10:10	57.89778	13.42541	7.773016	mg/L
MB3	Se 196.026	-0.01601	2/2/15	10:10	-0.4826	346.4106	1.671777	mg/L
MB3	Ag 328.068	-0.01607	2/2/15	10:09	-1431.62	1.53354	21.95442	mg/L
MB3	Ag 338.289	0.005172	2/2/15	10:09	173.7394	23.88989	41.50615	mg/L
MB3	Tl 351.924	-0.00404	2/2/15	10:09	-3.77972	358.6748	13.55691	mg/L
MB3	As 193.696	0.001242	2/2/15	10:10	1.907416	41.61231	0.79372	mg/L
MB3	As 197.197	-0.04028	2/2/15	10:10	-2.58361	73.65925	1.90307	mg/L
MB3	Ba 230.425	-0.01861	2/2/15	10:10	29.71409	6.203456	1.843301	mg/L
MB3	V 292.402	0.004394	2/2/15	10:09	1.354551	744.3518	10.08262	mg/L
MB3	Zn 213.857	-0.05805	2/2/15	10:10	-3084.06	0.14798	4.563802	mg/L
MB3	Zn 202.548	-0.0407	2/2/15	10:10	-1280.99	0.076622	0.98152	mg/L
MB3	Mo 203.845	-0.08052	2/2/15	10:10	-2.57499	102.3335	2.635081	mg/L
MB3	Mo 204.597	-0.07593	2/2/15	10:10	9.194553	24.14341	2.219878	mg/L
MB3	Cr 205.560	-0.00324	2/2/15	10:10	6.993592	9.870173	0.69028	mg/L
MB3	Mn 260.568	0.000932	2/2/15	10:10	89.19558	3.79657	3.386373	mg/L
MB3	Ni 221.648	-0.00137	2/2/15	10:10	-15.6466	13.5596	2.121619	mg/L
MB3	Mg 279.077	-0.14002	2/2/15	10:10	62.95387	2.290855	1.442182	mg/L
MB3	Sb 206.836	0.077925	2/2/15	10:10	-2.32599	13.64599	0.317405	mg/L
MB3	Sb 217.582	0.012295	2/2/15	10:10	-1.49466	101.4508	1.516339	mg/L
MB3	Sb 231.146	0.011714	2/2/15	10:10	7.575446	62.17128	4.709752	mg/L
MB3	Cr 284.325	0.002089	2/2/15	10:09	322.4533	7.996033	25.78347	mg/L
MB3	Cd 228.802	-0.00293	2/2/15	10:10	-34.9714	11.46553	4.009658	mg/L
MB3	Cd 214.440	0.000391	2/2/15	10:10	51.608	5.693836	2.938475	mg/L
MB3	Cd 226.502	-0.00089	2/2/15	10:10	24.65692	19.87445	4.900427	mg/L
MB3	Cu 324.752	-0.00137	2/2/15	10:09	-1.78478	683.8213	12.20473	mg/L
MB3	Cu 327.393	0.000452	2/2/15	10:09	-417.579	3.513023	14.66963	mg/L
MB3	Co 238.892	-0.00808	2/2/15	10:10	17.39933	45.24615	7.872526	mg/L
MB3	Fe 239.562	-0.01279	2/2/15	10:10	169.9987	15.40812	26.19361	mg/L
MB3	Fe 259.939	-0.01293	2/2/15	10:10	437.4791	18.40092	80.50019	mg/L
MB3	Fe 234.349	-0.0292	2/2/15	10:10	-237.61	8.990165	21.36155	mg/L
MB3	Mn 259.372	-0.0327	2/2/15	10:10	159.3313	2.232348	3.556829	mg/L
MB3	Cr 267.716	-0.0007	2/2/15	10:10	34.14635	4.677814	1.597303	mg/L



ENVision Laboratories, Inc.
1439 Sadler Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Metals

- Raw Sample Data

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1561	Y 371.029	83.46414	2/2/15	17:25	1924516	0.790588	15214.99	%
1561	Al 394.401	16.26295	2/2/15	17:25	514293.1	0.174353	896.6846	mg/L
1561	B 249.772	0.330385	2/2/15	17:25	19626.21	1.203436	236.1889	mg/L
1561	Ba 233.527	0.054822	2/2/15	17:25	2358.819	0.493943	11.65122	mg/L
1561	Ba 413.065	0.06552	2/2/15	17:25	7168.199	0.873216	62.59383	mg/L
1561	Be 234.861	-0.08634	2/2/15	17:25	-38103.9	1.01206	385.6346	mg/L
1561	Be 313.042	0.005273	2/2/15	17:25	25679.97	0.82064	210.7401	mg/L
1561	Fe 238.204	29.22109	2/2/15	17:25	1104626	0.608339	6719.866	mg/L
1561	Pb 220.353	0.003245	2/2/15	17:25	-39.3951	7.739742	3.049081	mg/L
1561	Mn 257.610	1.913665	2/2/15	17:25	845475.1	0.4521	3822.392	mg/L
1561	Ni 231.604	0.027572	2/2/15	17:25	517.7196	0.545926	2.826368	mg/L
1561	Se 196.026	-0.09865	2/2/15	17:25	-31.8109	11.1273	3.539691	mg/L
1561	Ag 328.068	0.001859	2/2/15	17:25	1850.12	4.497231	83.20414	mg/L
1561	Ag 338.289	0.023629	2/2/15	17:25	2593.343	3.815306	98.94396	mg/L
1561	Tl 351.924	0.09356	2/2/15	17:25	430.8066	0.49795	2.145202	mg/L
1561	As 193.696	0.039488	2/2/15	17:25	20.1632	29.25502	5.89875	mg/L
1561	As 197.197	0.005125	2/2/15	17:25	8.037654	26.84858	2.157996	mg/L
1561	Ba 230.425	0.034239	2/2/15	17:25	2431.991	0.500102	12.16244	mg/L
1561	V 292.402	0.042829	2/2/15	17:25	3401.824	0.910119	30.96065	mg/L
1561	Zn 213.857	0.077494	2/2/15	17:25	1442.409	0.994692	14.34753	mg/L
1561	Zn 202.548	-0.07137	2/2/15	17:25	-1724.23	0.172243	2.969876	mg/L
1561	Mo 203.845	-0.07261	2/2/15	17:25	19.13139	24.83179	4.750667	mg/L
1561	Mo 204.597	-0.06763	2/2/15	17:25	36.44593	8.303363	3.026238	mg/L
1561	Cr 205.560	0.017739	2/2/15	17:25	262.5434	2.714487	7.126706	mg/L
1561	Mn 260.568	1.991488	2/2/15	17:25	466985.4	0.423613	1978.212	mg/L
1561	Ni 221.648	-0.22797	2/2/15	17:25	-910.542	0.65035	5.921709	mg/L
1561	Mg 279.077	418.4739	2/2/15	17:25	4210143	0.204534	8611.166	mg/L
1561	Sb 206.836	0.072763	2/2/15	17:25	-9.34105	5.4564	0.509685	mg/L
1561	Sb 217.582	-0.1287	2/2/15	17:25	-174.762	3.374451	5.89727	mg/L
1561	Sb 231.146	0.037877	2/2/15	17:25	74.43038	11.7631	8.755318	mg/L
1561	Cr 284.325	0.026843	2/2/15	17:25	1998.567	2.155816	43.08542	mg/L
1561	Cd 228.802	-0.00201	2/2/15	17:25	-10.7778	37.92281	4.087251	mg/L
1561	Cd 214.440	0.002706	2/2/15	17:25	155.8834	4.224864	6.58586	mg/L
1561	Cd 226.502	0.010629	2/2/15	17:25	415.7098	2.738227	11.38308	mg/L
1561	Cu 324.752	0.078459	2/2/15	17:25	24380.1	0.810094	197.5017	mg/L
1561	Cu 327.393	0.057383	2/2/15	17:25	6238.782	0.647609	40.4029	mg/L
1561	Co 238.892	7.301168	2/2/15	17:25	227677.8	0.815071	1855.736	mg/L
1561	Fe 239.562	29.41249	2/2/15	17:25	998947.7	0.666163	6654.617	mg/L
1561	Fe 259.939	31.11939	2/2/15	17:25	3570332	0.471965	16850.7	mg/L
1561	Fe 234.349	30.54396	2/2/15	17:25	689454.2	0.552403	3808.565	mg/L
1561	Mn 259.372	1.838884	2/2/15	17:25	792657.3	0.452751	3588.765	mg/L
1561	Cr 267.716	0.037415	2/2/15	17:25	1716.759	0.756	12.97871	mg/L

Sample ID	Analyte Name	Conc (Calib)	Date	Time	Int (Corr)	RSD (Corr Int)	SD (Corr Int)	Calib Units
1567	Y 371.029	58.80658	2/2/15	18:00	1355962	0.762105	10333.86	%
1567	Al 394.401	1.171496	2/2/15	18:00	36764.98	0.243957	89.69073	mg/L
1567	B 249.772	0.142721	2/2/15	18:00	8871.822	0.457886	40.62283	mg/L
1567	Ba 233.527	0.172324	2/2/15	18:01	7103.306	0.208534	14.81282	mg/L
1567	Ba 413.065	0.208498	2/2/15	18:00	21987.07	0.277346	60.98017	mg/L
1567	Be 234.861	0.001603	2/2/15	18:01	104.6444	2.333901	2.442297	mg/L
1567	Be 313.042	0.00642	2/2/15	18:00	30435.35	1.955517	595.1684	mg/L
1567	Fe 238.204	0.026925	2/2/15	18:01	1739.221	6.108046	106.2324	mg/L
1567	Pb 220.353	-0.01278	2/2/15	18:01	-84.6116	3.556132	3.0089	mg/L
1567	Mn 257.610	3.415908	2/2/15	18:00	1508704	0.337522	5092.204	mg/L
1567	Ni 231.604	0.02581	2/2/15	18:01	484.7901	1.751847	8.492779	mg/L
1567	Se 196.026	-0.02329	2/2/15	18:01	-3.24206	39.28762	1.273729	mg/L
1567	Ag 328.068	0.012326	2/2/15	18:00	3766.342	1.443797	54.37832	mg/L
1567	Ag 338.289	0.008709	2/2/15	18:00	637.381	1.406639	8.965647	mg/L
1567	Tl 351.924	0.028839	2/2/15	18:01	142.6065	6.586184	9.392324	mg/L
1567	As 193.696	-0.00795	2/2/15	18:01	-2.48137	99.54373	2.470045	mg/L
1567	As 197.197	-0.02206	2/2/15	18:01	1.679292	67.48886	1.133335	mg/L
1567	Ba 230.425	0.145462	2/2/15	18:00	7487.602	0.077741	5.820903	mg/L
1567	V 292.402	0.004374	2/2/15	18:01	-0.43765	1654.527	7.240983	mg/L
1567	Zn 213.857	-0.01863	2/2/15	18:01	-1767.7	0.511971	9.050094	mg/L
1567	Zn 202.548	-0.03248	2/2/15	18:00	-1162.14	0.833041	9.681139	mg/L
1567	Mo 203.845	-0.07871	2/2/15	18:01	2.405981	41.02628	0.987084	mg/L
1567	Mo 204.597	-0.0735	2/2/15	18:01	17.19126	6.922448	1.190056	mg/L
1567	Cr 205.560	-0.00055	2/2/15	18:01	39.79943	10.7624	4.283373	mg/L
1567	Mn 260.568	3.559655	2/2/15	18:00	834808.2	0.325846	2720.19	mg/L
1567	Ni 221.648	-0.15531	2/2/15	18:01	-623.582	0.628829	3.921264	mg/L
1567	Mg 279.077	67.63866	2/2/15	18:00	681726.1	0.372656	2540.494	mg/L
1567	Sb 206.836	0.068111	2/2/15	18:01	-15.6631	32.38776	5.072922	mg/L
1567	Sb 217.582	-0.04718	2/2/15	18:01	-74.5799	5.798178	4.324274	mg/L
1567	Sb 231.146	0.104199	2/2/15	18:01	243.9049	1.1175	2.725637	mg/L
1567	Cr 284.325	0.014609	2/2/15	18:00	1170.212	3.792892	44.38487	mg/L
1567	Cd 228.802	-0.00105	2/2/15	18:01	14.66826	35.55564	5.215393	mg/L
1567	Cd 214.440	0.000555	2/2/15	18:01	59.00107	11.59344	6.840253	mg/L
1567	Cd 226.502	0.00217	2/2/15	18:01	128.5288	2.213524	2.845017	mg/L
1567	Cu 324.752	0.0085	2/2/15	18:00	3011.694	3.454959	104.0528	mg/L
1567	Cu 327.393	-0.00536	2/2/15	18:00	-1097.18	1.132175	12.42205	mg/L
1567	Co 238.892	-0.00357	2/2/15	18:01	157.7929	10.04183	15.8453	mg/L
1567	Fe 239.562	0.028328	2/2/15	18:01	1565.623	5.407691	84.66405	mg/L
1567	Fe 259.939	0.032896	2/2/15	18:00	5692.126	8.043328	457.8364	mg/L
1567	Fe 234.349	0.058136	2/2/15	18:01	1732.483	3.679524	63.74713	mg/L
1567	Mn 259.372	3.21173	2/2/15	18:00	1373971	0.350682	4818.27	mg/L
1567	Cr 267.716	0.010782	2/2/15	18:01	541.0899	0.992666	5.371218	mg/L

Appendix I

Disposal Documentation



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number
1-26-Ricker

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

*10000 RICKER RD
PO BOX 150
MADISON WI 53703*

*4000 RICKER RD
MADISON WI 53703*

Generator's Phone: *608-261-8000*

6. Transporter 1 Company Name

U.S. EPA ID Number

WASTE MANAGEMENT

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

*Plant - Environmental
6000 South Drive
MADISON WI 53704*

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No. Type

1. *Used Oil*

500

2.

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

X KOEL WASTRELL

K Koel Wastrell

1 26 15

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Alan L Fisher

Alan L Fisher

1 26 15

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Mark Anger

Mark Anger

01 26 15

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Corporate Office:
 19701 S. 97th Ave
 Mokena, IL 60448
 (708) 479-6900
 (866) 579-6900
 (708) 479-6890 fax



Serving Today's Petroleum Industry
24 hr EMERGENCY RESPONSE
 www.futureenvironmental.com

IN 3977
 6331 E 30th Street, Suite 304
 Indianapolis, IN 46219
 Special Waste Hauler #3922
 US EPA # INR00011669

Illinois Indiana Iowa Michigan Missouri Ohio Oklahoma Wisconsin

Generator/Customer	Job Site
Name: <u>National Environmental Inc</u>	Name:
Address: <u>7468 W-200 N</u>	Address:
City, State, Zip: <u>Greensfield, IN 46140</u>	City, State, Zip:
Contact:	Phone:

Manifest #

Customer PO #

Type of Recyclable Product/Waste	Quantity	Price Per Gal/Unit	Amount
Non-Hazardous Used Oil Halogen Level <1000 PPM <input type="checkbox"/>			
Used Anti-freeze			
Non-Hazardous Waste Water			
Non-Hazardous /Sludge			
Service/Truck Charge			
Demurrage Charges			
On-Spec Used Oil Delivered			
Used Oil Filter Pick-up	<u>136</u>	<u>NIC</u>	<u>NIC</u>
Non-Hazardous Drum Pick-up			
Parts Washer Delivery/Service			

PAID	CHECK #	Call office with VISA MC AMER X	OFFICE TO PAY
------	---------	---------------------------------	---------------

On Site Time	Start	End
Port to Port Time	Start	End

Scope of Work Performed: _____

Driver's Name: (printed) Ringer Truck/Trailer # — Date: 11/26/15

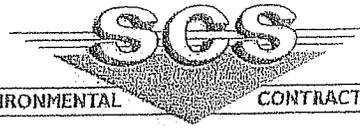
Generator Certification

I (generator) hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable national government regulations as a non hazardous/non PCB waste. I also hereby certify to pay all cost associated with disposal of any non disclosed hazardous/PCB waste found to be in this shipment. I certify that the waste minimization statement identified in 40 CFR 262.27 (a) (if I am a large quantity hazardous waste generator) or (b) (if I am a small quantity generator) is true.

Alan L. [Signature]
 Customer Signature

11/26/15
 Date

317-894-8373
 Phone



ENVIRONMENTAL CONTRACTING

Tank Closure Certification

P.O. Box 8980
 Fort Wayne, Indiana 46898
 Phone: 260-497-9006 Fax: 260-497-9008
 www.scsenvironmental.net

I. FACILITY IDENTIFICATION

BUSINESS NAME: _____
 TANK OWNER NAME: 11940 US HIGHWAY 31
 TANK OWNER ADDRESS: _____
 TANK OWNER CITY: EDINBURG STATE: IN. ZIP: 46124

The below tanks have been purged and cleaned according to recommended practice API-1604. This practice has been approved by the State Fire Marshals Office of the State of Indiana Department of Homeland Security. It is to SCS Environmental Contracting's best knowledge that all state and federal requirements for cleaning have been achieved.

II. TANK CLOSURE INFORMATION

ASSIGNED TANK NO.	TANK SIZE	TANK CONTENTS
<u>21</u>	<u>550 GAL 48" DIA X 6'</u>	<u>WASTE OIL</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

On examination of the tank, SCS Environmental Contracting certifies that the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. SCS Environmental Contracting further certifies that the information provided herein is true and accurate to the best of our knowledge.

III. CERTIFICATION

SIGNATURE OF CERTIFIED: Doug Woods
 NAME OF CERTIFIED: Doug Woods
 LICENSE NO. OF CERTIFIED UC2000606737
 DATE: 1/26/2015

IV. DISPOSAL

DISPOSAL FACILITY: Grant Line Metals (812-944-2274)
 SIGNATURE: [Signature]
 DATE: 1-27-15

The facility noted above certifies that the tanks listed are being purchased for remelting purposes only.

Appendix J

Professional Qualifications



RYAN PETERSON

Ryan Peterson is a Project Manager and the Assistant Safety Officer at Creek Run L.L.C Environmental Engineering (Creek Run). Ryan joined Creek Run in August 2012 and is responsible for overseeing the sampling group that collects groundwater samples, creates groundwater flow and contaminant plume maps, writes technical reports, and surveys monitoring wells. In addition, Ryan assists with soil borings/classification and well installation and has also overseen multiple underground storage tank (UST) closures and soil excavations. Ryan has experience preparing Corrective Action Progress Reports, Phase I and Phase II Environmental Site Assessments, UST Closure, Initial Site Characterization, Further Site Investigation, and Closure Strategy reports. He has completed 40 hour HAZWOPER training and attends yearly refresher courses.

Prior to Creek Run, Ryan earned a B.S. in Environmental Studies and a B.S. in Biology from Manchester College in 2011. During his college career, Ryan studied the effects of non-point source pollution on spawning smallmouth bass in a stream in Northern Indiana. Ryan also studied the spatial and behavioral characteristics of the white-tailed deer during mating season. He presented his research at the following professional conferences: Indiana Academy of Science (Fall 2008), The Wildlife Society (Spring 2010), Butler University's Undergraduate Research Conference (Spring 2009), and Manchester College Dean's Symposium (Spring 2009 and 2010).

In his free time, Ryan enjoys spending time with his wife and son and spending time in the outdoors hunting or fishing.

STEPHANIE BRAGG

Stephanie Bragg is a Project Manager at Creek Run and joined Creek Run in May 2010. She earned a B.S. in Geological Sciences from Ball State University in May 2010. She is certified by the State of Indiana in underground storage tank (UST) decommissioning (#UC20139718) and has completed the 40-hour HAZWOPER training course. Stephanie is a licensed Geologist-In-Training (#0027) in the State of Kentucky and plans to become a Licensed Professional Geologist in 2015.

Stephanie's duties at Creek Run include project management for numerous sites in Indiana and Ohio. She has performed subsurface investigations to define the nature and extent of impacted materials using Leaking Underground Storage Tank (LUST), Risk Integrated System of Closure (RISC), and Remediation Closure Guide (RCG) regulatory guidelines. Stephanie has experience in the development and implementation of Initial Site Characterizations (ISCs), Further Site Investigations (FSIs), UST decommissioning, Remediation Work Plans (RWPs), Closure Strategies, and quarterly monitoring projects.

While at Ball State, Stephanie's senior thesis included field work in New Caledonia, located in the South Pacific, calculating the shortage of the sedimentary units in the Nouméa Basin in relation to the emplacement of the Massif du Sud ophiolite.

Stephanie enjoys spending time with her husband and their daughter. She also enjoys collecting antique cameras and Ball Jars, hiking, and is an aspiring novelist.

CHRIS PARKS, LPG #2169

Chris Parks is a Project Geologist at Creek Run and has been employed at Creek Run since December 2012. Chris is also the Indianapolis Office Manager. Chris earned a B.S. in Geological Sciences from Indiana University in 2000. Chris is a Licensed Professional Geologist (#2169) in Indiana, a Professional Geologist (#KY-2371) in Kentucky, and a Certified Class C Wastewater Operator (#WW019802) in Indiana. Chris is also First Aid and CPR certified. He has completed 40 hour HAZWOPER training and attends yearly refresher courses.

Prior to joining Creek Run, Chris worked as a Project Manager and a Staff Geologist at two other environmental firms located in Indianapolis, Indiana over a 13 year period.

Chris' duties at Creek Run include project management for numerous sites in Indiana. He has performed subsurface investigations to define the nature and extent of impacted materials using Leaking Underground Storage Tank (LUST), Risk Integrated System of Closure (RISC), and Remediation Closure/Program Guide (RCG/RPG) regulatory guidelines. Chris has experience in the development and implementation of Phase I and II Environmental Site Assessments (ESAs), Initial Site Characterizations (ISCs), Further Site Investigations (FSIs), UST decommissioning, Corrective Action Plans (CAPs), Remediation Work Plans (RWPs), and quarterly monitoring projects. Chris has been involved with numerous corrective action plan designs and implementations, including: over-excavations, various remedial system installations and operations, enhanced bio-remediation, chemical injections, and monitored natural attenuation. He also has experience with supervising and conducting soil vapor surveys, indoor air sampling, cone penetrometer surveys, and geophysical surveys. He has been involved in the installation of remediation systems at a number of sites.

Chris has been married to his wife, Michelle, for 15 years. They have two children. Chris enjoys spending time with his family, home improvement, watching sports, and spending time in the outdoors.

RICHARD “JASON” LENZ, PhD

Jason Lenz earned his BA in History from Anderson University in 1986. He earned his MS in Environmental Science at Taylor University in 2006. He earned his PhD in Earth and Atmospheric Science from the College of Arts and Sciences at Mississippi State University in December 2014. He is a veteran of the United States Air Force, serving in New Mexico (1984 – 1988), Iceland (1989), and Indiana (1990). He is the Chief Operating Officer at Creek Run, a company he founded in 1993.

Jason has been responsible for the successful mitigation of more than 100 environmentally distressed properties. He is an Applied Geologist in Earth and Atmospheric Science and in Environmental Economics. His research relates directly to the timely and most cost effective solutions for environmental remediation and successful site closures. His research has been presented at the Association of Environmental and Engineering Geologists and the American Association of Geographers. He is a licensed Underground Storage Tank professional in Indiana and Ohio where he has witnessed/documentated the removal and installation of more than 1,000 underground storage tanks. He has been an adjunct graduate school professor at Taylor University.

Creek Run is dedicated to the mitigation of environmental distressed properties to include: investigations, writing and implementing corrective action plans, design building and installing appropriate remedial systems for the underlying subsurface sediments and groundwater, collection of data for specific site closures and assisting our clients to utilize all funding mechanisms available to achieve closure, including the Indiana Excess Liability Trust Fund (ELTF).

Jason has been married to his wife Joni for 30 years, a Registered Nurse at Ball Memorial Hospital, Muncie, Indiana. They live outside of Montpelier where they raise beef and dairy cattle. They are members of Saint John’s Catholic Church in Hartford City, Indiana. They have three children. Cole is a veteran of the United States Marines and is a senior majoring in Geology at Mississippi State University. Twins Adam and Abigail both are employed by Creek Run. Adam obtained his BS and MS in Geology from Mississippi State and runs the Creek Run LaPorte, Indiana field office. Abigail is completing her drafting degree and is one of Creek Run’s draftsmen. Jason is a member Association of Environmental and Engineering Geologists (AEG), the Association of American Geographers (AAG), the Geological Society of America (GSA), a lifetime member of the Association for Preservation Society of Artifacts and Landscapes (PSAL), and the Alaskan Miners Association (AMA).