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ENVIRONMENTAL ENGINEERING
Taking Pride In What We Do!

- 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

December 16, 2016

Indiana Department of Environmental Management
Mr. Michael R. McCann
Voluntary Remediation Program
MC 66-30V IGCN 1101
Indianapolis, Indiana 46204-2251

Re: Corrective Action Progress Report – Fourth Quarter 2016
Former Herdrich Bulk Plant
2920 Connett Avenue
Fort Wayne, Indiana
State Cleanup Site #2013-33964
VRP #6131201

Dear Mr. McCann,

On behalf of Herdrich Petroleum Corporation (Herdrich), Creek Run L.L.C. Environmental Engineering (Creek Run) is submitting this Corrective Action Progress Report (CAPR) for Fourth Quarter 2016 for the above referenced site.

We trust this submittal meets your needs and expectations. Please contact the undersigned if you have any comments or questions.

Sincerely,

Chelsea Smith
Field Scientist

Ashley Pepple
Staff Scientist

Dennis Livingston, LPG 2120
Assistant Director of Technical Services

cc: Mr. Robert Herdrich, Herdrich Petroleum Corporation

CURRENT SITE CONDITIONS

GROUNDWATER SAMPLING PROCEDURE:
On October 18, 2016, static water levels and groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3R, MW-4R, and MW-5 through MW-12. Monitoring well locations are illustrated on **Figure 1** in **Attachment A**.

Upon arrival at the site, all wells in the monitoring well network were opened and allowed to equilibrate with atmospheric conditions. Once equilibrated, depths to water below the top of casing in each well were measured to the nearest 0.01 foot using a Solinst water level indicator that was decontaminated before use and between each well. Depth to water measurements and groundwater elevations are summarized in **Table 1** in **Attachment B**.

Following collection of static water levels, a minimum of three well volumes of water was purged from each monitoring well (or until the well was dry) using new, disposable bailers to ensure that representative formation water was sampled. Purge water was placed into a labeled 55-gallon steel drum, sealed, and left on-site for future disposal.

Following a recovery period, groundwater samples were poured directly from the disposable bailers into appropriate containers provided by the laboratory, labeled, logged on a chain of custody form, placed immediately into an ice-filled cooler, and submitted to ENVision Laboratories, Inc. (ENVision) of Indianapolis, Indiana. The groundwater samples, along with a blind duplicate sample (DUP-1) collected from well MW-2, a matrix spike/matrix spike duplicate sample (MS/MSD) collected from well MW-7, and a laboratory-supplied trip blank (TB-1) that was maintained in the cooler during the sampling event, were analyzed for volatile organic compounds (VOCs) and 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene (naphthalenes) using United States Environmental Protection Agency (US EPA) Method 8260.

GROUNDWATER FLOW:
Groundwater elevations in **Table 1** were used to construct the groundwater flow map provided as **Figure 2**. Groundwater flow beneath the site is primarily toward the west/northwest. This groundwater flow direction is consistent with previous findings.

GROUNDWATER ANALYTICAL RESULTS:
Fourth Quarter 2016 groundwater analytical results are summarized in **Table 2** (Select VOCs and Naphthalenes) and illustrated on **Figure 3** [Select Chemicals of Concern (COCs)]. Historical groundwater elevations are summarized in **Table 3**, and historical groundwater analytical results are summarized in **Table 4** (Select VOCs, Naphthalenes, and Total Lead). Data collected in the field during this sampling event was recorded on a Well Sampling Data Sheet, provided as

Attachment C. The laboratory analytical report including full quality assurance/quality control (QA/QC) documentation and chain of-custody form for groundwater samples collected on October 18, 2016 is provided as **Attachment D**.

Clean-up goals established for the site correspond to the Indiana Department of Environmental Management (IDEM) *Remediation Closure Guide* (RCG) program guidelines. These goals involve reduction of COC concentrations in groundwater to below RCG Commercial/Industrial Groundwater Vapor Exposure (C/IGVE) screening levels. If necessary, institutional controls may be utilized to obtain closure and prevent future groundwater ingestion exposure.

Groundwater samples collected during the Fourth Quarter 2016 sampling event that contained COCs at concentrations exceeding RCG Residential Groundwater Tap (RGT) and C/IGVE screening levels are summarized in the following table.

Well No	Parameters Exceeding:	
	RCG RGT	RCG C/IGVE
MW-2	benzene, 1-methylnaphthalene, and naphthalene	none
MW-4R	benzene	none
MW-7	naphthalene	none
MW-10	1-methylnaphthalene, naphthalene, and 1,2,4-trimethylbenzene (1,2,4-TMB)	none

Review of historical analytical results provided in **Table 4** indicates that COC concentrations in groundwater have not exceeded RCG C/IGVE closure goals since impacted soil was excavated in Fourth Quarter 2015. Charts depicting groundwater elevations versus benzene and naphthalene concentrations over time in wells MW-3/3R and MW-4/4R are provided in **Attachment B**. Data presented in the charts suggests that COC concentrations are not influenced by groundwater elevation fluctuations at the site. Since excavation of source soil in November 2015, COC concentrations in wells MW-3R and MW-4R have significantly decreased, indicating that the remedial approach was effective. Review of analytical results for the duplicate sample (DUP-1) collected from well MW-2 reveal that COC concentrations correspond with those observed in well MW-2. All other analytical results are consistent with previous findings.

Free product has not been observed in well MW-4R since source soil was excavated in November 2015. Historical free product recovery from monitoring well MW-4 is summarized in **Table 5**. Approximately 7.79 gallons of free product was removed prior to the Fourth Quarter 2015 excavation. Free product recovery volumes were calculated based on the cumulative thickness of the free product in the bailer during free product recovery and the bailer radius.

COMPLETED AND PLANNED REMEDIAL TASKS

From February 2013 to August 2014, Creek Run advanced 24 soil borings and installed 12 monitoring wells in an effort to characterize and define on-site petroleum impacts. Herdrich entered into a Voluntary Remediation Agreement with IDEM on May 1, 2014, transferring project oversight from IDEM's State Cleanup Section to the Voluntary Remediation Program (VRP). A Remediation Work Plan (RWP) was submitted to IDEM on January 23, 2015 recommending source removal of the most heavily impacted soil, extraction and treatment of groundwater from the excavation prior to backfilling, and at least four quarters of groundwater monitoring following excavation or until contaminant concentrations are below vapor intrusion screening levels. The RWP was approved by IDEM in a July 22, 2015 letter.

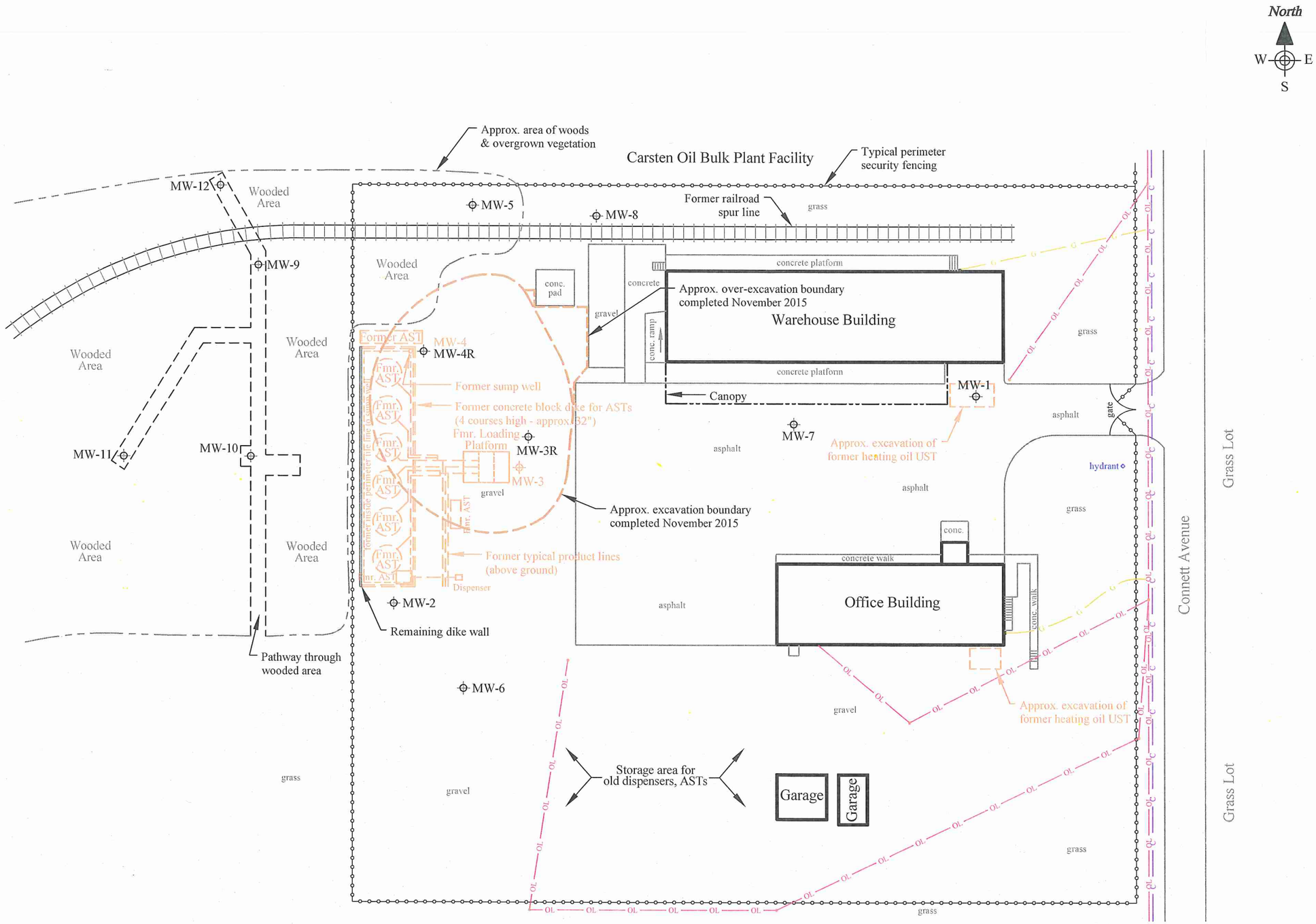
Between November 23, 2015 and December 3, 2015, 4,789.77 tons of impacted soil was removed from the site and disposed of at National Serv All Landfill in Fort Wayne, Indiana. Monitoring wells MW-3R and MW-4R were installed on December 14, 2015 to replace destroyed wells MW-3 and MW-4 within the excavation area. Procedures and results of the RWP implementation were documented in a Remediation Work Plan Implementation Report that was submitted on December 28, 2015. The area excavated during RWP Implementation and the locations of monitoring wells MW-3R and MW-4R are illustrated on **Figure 1**.

Contaminant concentrations have remained below RCG C/IGVE screening levels through four consecutive quarters of groundwater monitoring conducted since implementation of the RWP. In accordance with the closure goals outlined in the RWP, groundwater monitoring will cease and a closure strategy with a draft Environmental Restrictive Covenant (ERC) limiting land use to non-residential and restricting groundwater use will be submitted during First Quarter 2017.

A CAPR form for the Fourth Quarter 2016 sampling event, along with documentation of an on-site safety meeting and use of personal protective equipment are provided in **Attachment E**.

ATTACHMENT A

Figures



Note:
Monitoring wells MW-3 and MW-4 were destroyed during excavation activities and replaced with monitoring wells MW-3R and MW-4R.

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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

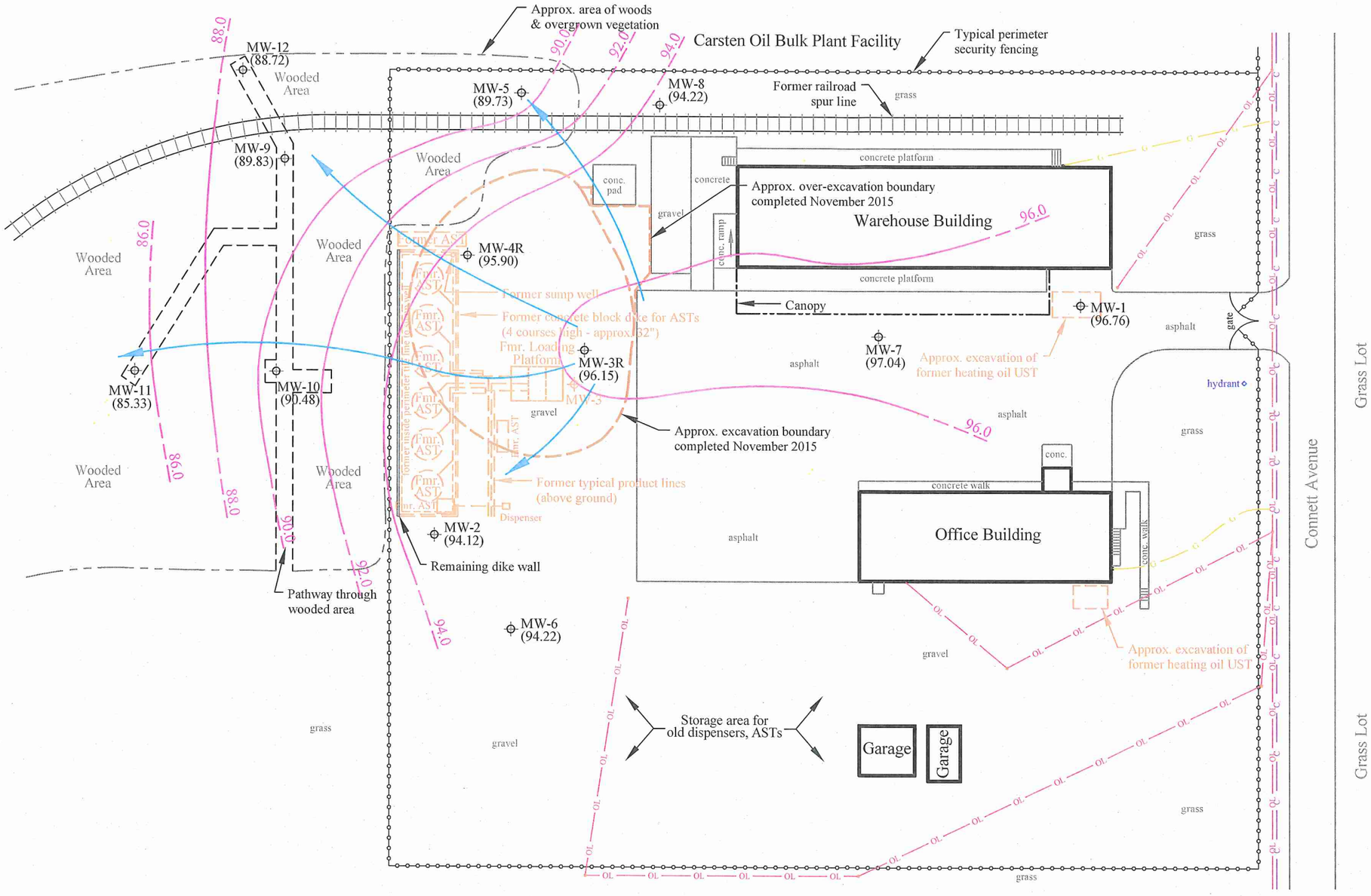
Drawn By: R.N. Date: 12-22-15	Checked By: S.B. Date: 12-23-15
File No.: H100-FTW8-103-10	Revision: 10

Title: Site Map

Location: Former Herdrich Bulk Plant 2920 Connett Avenue Fort Wayne, IN

Scale: 1" = 40' (40')

Figure: 1



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Standard Legend

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

Legend

	Groundwater Flow Direction
94.0	Potentiometric Contour (ft.)
(96.76)	Groundwater Elevation (ft.)

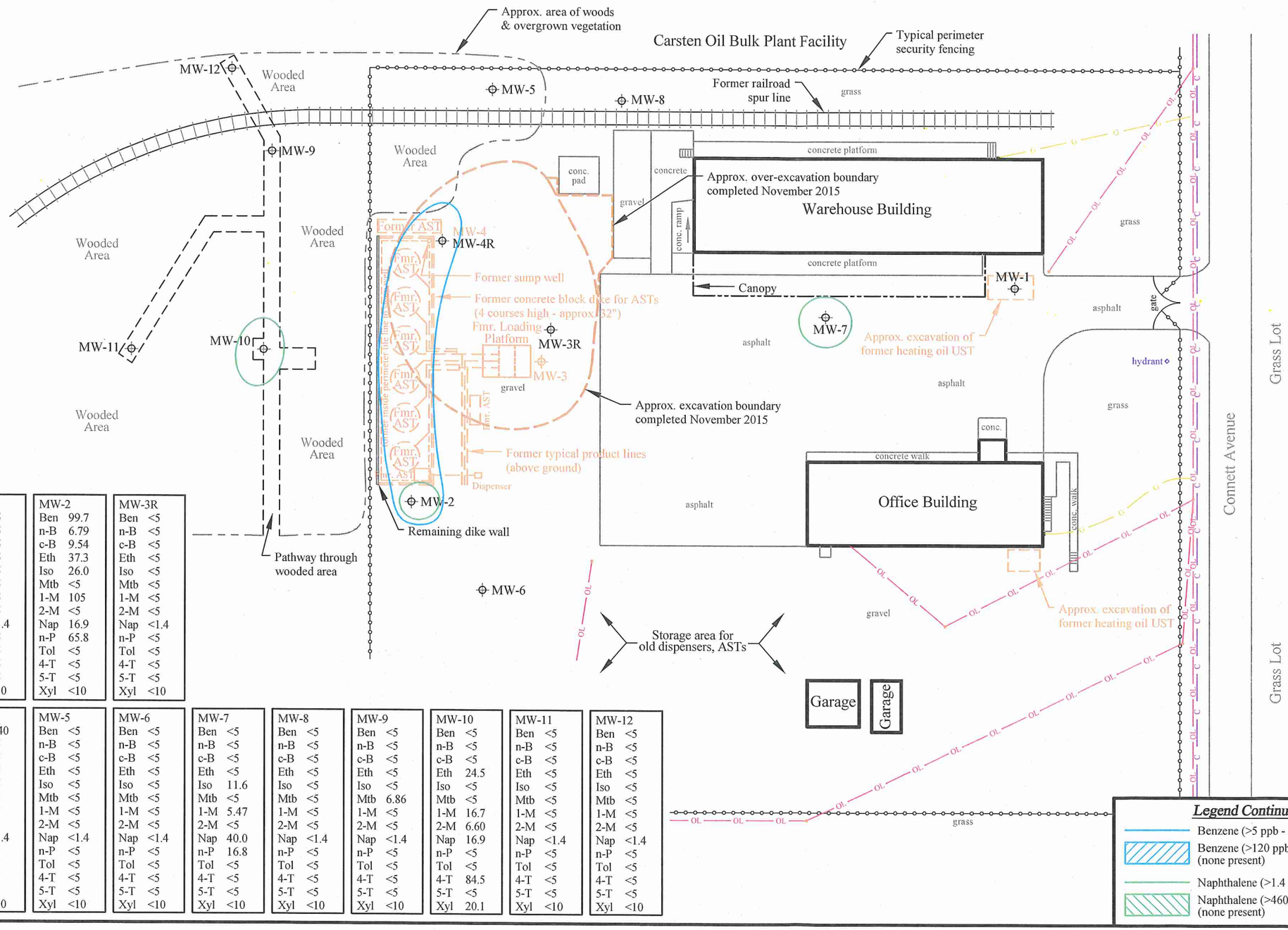
Drawn By: R.N. Date: 12-9-16	Checked By: A.P. Date: 12-12-16
File No.: H100-FTW8-108-12	Revision: 12

Title: Groundwater Flow October 18, 2016

Location: Former Herdrich Bulk Plant 2920 Connett Avenue Fort Wayne, IN

Scale: 1" = 40' (40')

Figure: 2



MW-1	MW-2	MW-3R
Ben <5	Ben 99.7	Ben <5
n-B <5	n-B 6.79	n-B <5
c-B <5	c-B 9.54	c-B <5
Eth <5	Eth 37.3	Eth <5
Iso <5	Iso 26.0	Iso <5
Mtb <5	Mtb <5	Mtb <5
1-M <5	1-M 105	1-M <5
2-M <5	2-M <5	2-M <5
Nap <1.4	Nap 16.9	Nap <1.4
n-P <5	n-P 65.8	n-P <5
Tol <5	Tol <5	Tol <5
4-T <5	4-T <5	4-T <5
5-T <5	5-T <5	5-T <5
Xyl <10	Xyl <10	Xyl <10

MW-4R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12
Ben 6.40	Ben <5	Ben <5	Ben <5	Ben <5	Ben <5	Ben <5	Ben <5	Ben <5
n-B <5	n-B <5	n-B <5	n-B <5	n-B <5	n-B <5	n-B <5	n-B <5	n-B <5
c-B <5	c-B <5	c-B <5	c-B <5	c-B <5	c-B <5	c-B <5	c-B <5	c-B <5
Eth <5	Eth <5	Eth <5	Eth <5	Eth <5	Eth <5	Eth 24.5	Eth <5	Eth <5
Iso <5	Iso <5	Iso <5	Iso 11.6	Iso <5	Iso <5	Iso <5	Iso <5	Iso <5
Mtb <5	Mtb <5	Mtb <5	Mtb <5	Mtb <5	Mtb 6.86	Mtb <5	Mtb <5	Mtb <5
1-M <5	1-M <5	1-M <5	1-M 5.47	1-M <5	1-M <5	1-M 16.7	1-M <5	1-M <5
2-M <5	2-M <5	2-M <5	2-M <5	2-M <5	2-M <5	2-M 6.60	2-M <5	2-M <5
Nap <1.4	Nap <1.4	Nap <1.4	Nap 40.0	Nap <1.4	Nap <1.4	Nap 16.9	Nap <1.4	Nap <1.4
n-P <5	n-P <5	n-P <5	n-P 16.8	n-P <5	n-P <5	n-P <5	n-P <5	n-P <5
Tol <5	Tol <5	Tol <5	Tol <5	Tol <5	Tol <5	Tol <5	Tol <5	Tol <5
4-T <5	4-T <5	4-T <5	4-T <5	4-T <5	4-T <5	4-T 84.5	4-T <5	4-T <5
5-T <5	5-T <5	5-T <5	5-T <5	5-T <5	5-T <5	5-T <5	5-T <5	5-T <5
Xyl <10	Xyl <10	Xyl <10	Xyl <10	Xyl <10	Xyl <10	Xyl 20.1	Xyl <10	Xyl <10

Legend Continued

- Benzene (>5 ppb - RCG RGT)
- Benzene (>120 ppb - C/IGVE) (none present)
- Naphthalene (>1.4 ppb - RCG RGT)
- Naphthalene (>460 ppb - C/IGVE) (none present)

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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

Monitoring Well No.
Ben Benzene
n-B n-Butylbenzene
c-B sec-Butylbenzene
Eth Ethylbenzene
Iso Isoproplybenzene (Cumene)
Mtb Methyl tertiary-butyl ether
1-M 1-Methylnaphthalene
2-M 2-Methylnaphthalene
Nap Naphthalene
n-P n-Propylbenzene
Tol Toluene
4-T 1,2,4-Trimethylbenzene
5-T 1,3,5-Trimethylbenzene
Xyl Xylenes

Results reported in parts per billion (ppb)
COCs = Chemicals of Concern
RCG = Remediation Closure Guide
Screening Levels:
RGT = Residential Groundwater Tap
RGVE = Residential Groundwater Vapor Exposure
C/IGVE = Commercial/Industrial Groundwater Vapor Exposure
Results shown in RED exceed RCG C/IGVE levels (none present)

Drawn By: R.N. Date: 12-9-16
Checked By: A.P. Date: 12-12-16
File No.: H100-FTW8-107-12
Revision: 12

Title: Groundwater Analytical Results Select COCs October 18, 2016

Location: Former Herdrich Bulk Plant 2920 Connett Avenue Fort Wayne, IN

Scale: 1" = 40' (40')
Figure: 3

ATTACHMENT B

Tables and Charts

TABLE 1
Groundwater Elevation Data - Fourth Quarter 2016
Former Herdrich Bulk Plant
2920 Connett Avenue
Fort Wayne, Indiana

October 18, 2016

Well	Top of Casing Elevation	Depth to Water	Free Product Thickness	Groundwater Elevation
MW-1	100.74	3.98	NM	96.76
MW-2	99.60	5.48	NM	94.12
MW-3R	99.89	3.74	NM	96.15
MW-4R	99.46	3.56	NM	95.90
MW-5	98.74	9.01	NM	89.73
MW-6	100.29	6.07	NM	94.22
MW-7	100.22	3.18	NM	97.04
MW-8	99.28	5.06	NM	94.22
MW-9	102.32	12.49	NM	89.83
MW-10	101.01	10.53	NM	90.48
MW-11	101.07	15.74	NM	85.33
MW-12	99.66	10.94	NM	88.72

All measurements reported in feet
All elevations referenced to an on-site benchmark (formerly well MW-3) assigned an elevation of 100.00 feet
NM = Not measured

Table 2
Groundwater Analytical Results - Select VOCs and Naphthalenes
Former Herdrich Bulk Plant
2920 Connett Avenue
Fort Wayne, Indiana

October 18, 2016

Well ID	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tertiary-butyl ether	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
MW-1	<5	<5	<5	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<5	<10
MW-2	99.7	6.79	9.54	37.3	26.0	<5	105	<5	16.9	65.8	<5	<5	<5	<10
*DUP-1	100	5.86	8.70	36.9	25.6	<5	111	<5	16.8	65.1	<5	<5	<5	<10
MW-3R	<5	<5	<5	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<5	<10
MW-4R	6.40	<5	<5	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<5	<10
MW-5	<5	<5	<5	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<5	<10
MW-6	<5	<5	<5	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<5	<10
MW-7	<5	<5	<5	<5	11.6	<5	5.47	<5	40.0	16.8	<5	<5	<5	<10
MW-8	<5	<5	<5	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<5	<10
MW-9	<5	<5	<5	<5	<5	6.86	<5	<5	<1.4	<5	<5	<5	<5	<10
MW-10	<5	<5	<5	24.5	<5	<5	16.7	6.60	16.9	<5	<5	84.5	<5	20.1
MW-11	<5	<5	<5	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<5	<10
MW-12	<5	<5	<5	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<5	<10
RCG RGT	*5*	*1,000*	*2,000*	*700*	*450*	*140*	*11*	*36*	*1.7*	*660*	*1,000*	*15*	*120*	*10,000*
RCG RGVE	*28*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*110*	*uA*	*uA*	*uA*	*uA*	*uA*
RCG C/IGVE	*120*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*460*	*uA*	*uA*	*uA*	*uA*	*uA*

Results presented in parts per billion (ppb)
VOCs = Volatile organic compounds
*DUP-1 = Indicates a duplicate sample collected from monitoring well MW-2
RCG RGT = 2016 Remediation Closure Guide Residential Groundwater Tap screening level
RCG RGVE = 2016 Remediation Closure Guide Residential Groundwater Vapor Exposure screening level
RCG C/IGVE = 2016 Remediation Closure Guide Commercial/Industrial Groundwater Vapor Exposure screening level
uA = Unavailable; screening level not established for this parameter
Results in **BOLD** exceed RCG C/IGVE screening level (none present)

TABLE 3
Historical Groundwater Elevations
Former Herdrich Bulk Plant
2920 Connett Avenue
Fort Wayne, Indiana

Well	Date	Top of Casing Elevation	Depth to Water	Free Product Thickness	Groundwater Elevation
MW-1	04/23/13	100.74	2.55	NM	98.19
	05/20/13		2.77	NM	97.97
	12/16/13		4.06	NM	96.68
	05/13/14		2.35	NM	98.39
	07/16/14		3.20	NM	97.54
	09/10/14		1.78	NM	98.96
	12/10/14		2.98	NM	97.76
	02/19/15		4.26	NM	96.48
	05/21/15		2.68	NM	98.06
	08/19/15		2.64	NM	98.10
	11/19/15		3.50	NM	97.24
	02/24/16		3.24	NM	97.50
	05/26/16		2.91	NM	97.83
	08/08/16		5.44	NM	95.30
	10/18/16		3.98	NM	96.76
MW-2	04/23/13	99.60	1.80	NM	97.80
	05/20/13		2.27	NM	97.33
	12/16/13		6.16	NM	93.44
	05/13/14		1.18	NM	98.42
	07/16/14		3.97	NM	95.63
	09/10/14		3.53	NM	96.07
	12/10/14		1.37	NM	98.23
	02/19/15		1.67	NM	97.93
	05/21/15		1.39	NM	98.21
	08/19/15		1.47	NM	98.13
	11/19/15		3.80	NM	95.80
	02/24/16		0.99	NM	98.61
	05/26/16		1.36	NM	98.24
	08/08/16		7.92	NM	91.68
	10/18/16		5.48	NM	94.12
MW-3	04/23/13	100.00	2.82	NM	97.18
	05/20/13		3.29	NM	96.71
	12/16/13		6.10	NM	93.90
	05/13/14		3.14	NM	96.86
	07/16/14		4.06	NM	95.94
	09/10/14		3.84	NM	96.16
	12/10/14		3.34	NM	96.66

TABLE 3 Continued

Well	Date	Top of Casing Elevation	Depth to Water	Free Product Thickness	Groundwater Elevation
MW-3 Cont.	02/19/15	100.00	3.42	NM	96.58
	05/21/15		2.43	NM	97.57
	08/19/15		2.22	NM	97.78
	11/19/15		4.65	NM	95.35
	Well Destroyed During Excavation				
MW-3R	02/24/16	99.89	2.85	NM	97.04
	05/26/16		2.37	NM	97.52
	08/08/16		4.74	NM	95.15
	10/18/16		3.74	NM	96.15
MW-4	04/23/13	99.27	3.30	0.02	95.99*
	05/20/13		7.38	2.68	94.03*
	12/16/13		8.00	0.88	91.97*
	05/13/14		3.30	0.00	95.97
	07/16/14		6.69	0.54	93.01*
	09/10/14		6.23	0.82	93.70*
	12/10/14		5.81	0.92	94.20*
	02/19/15		5.37	0.65	94.42*
	05/21/15		4.67	0.43	94.95*
	08/19/15		5.42	0.40	94.17*
	11/19/15		7.85	0.78	92.04*
	Well Destroyed During Excavation				
MW-4R	02/24/16	99.46	2.85	0.00	96.61
	05/26/16		2.13	0.00	97.33
	08/08/16		4.66	0.00	94.80
	10/18/16		3.56	NM	95.90
MW-5	05/20/13	98.74	7.61	NM	91.13
	12/16/13		9.67	NM	89.07
	05/13/14		2.83	NM	95.91
	07/16/14		8.24	NM	90.50
	09/10/14		3.27	NM	95.47
	12/10/14		6.86	NM	91.88
	02/19/15		6.89	NM	91.85
	05/21/15		5.94	NM	92.80
	08/19/15		5.29	NM	93.45
	11/19/15		9.72	NM	89.02
	02/24/16		4.99	NM	93.75
	05/26/16		6.14	NM	92.60
	08/08/16		9.53	NM	89.21
	10/18/16		9.01	NM	89.73
MW-6	05/20/13	100.29	1.85	NM	98.44
	12/16/13		4.47	NM	95.82

TABLE 3 Continued

Well	Date	Top of Casing Elevation	Depth to Water	Free Product Thickness	Groundwater Elevation
MW-6 Cont.	05/13/14	100.29	1.21	NM	99.08
	07/16/14		3.30	NM	96.99
	09/10/14		3.28	NM	97.01
	12/10/14		1.39	NM	98.90
	02/19/15		1.98	NM	98.31
	05/21/15		1.57	NM	98.72
	08/19/15		1.47	NM	98.82
	11/19/15		3.42	NM	96.87
	02/24/16		0.88	NM	99.41
	05/26/16		1.52	NM	98.77
	08/08/16		6.67	NM	93.62
	10/18/16		6.07	NM	94.22
MW-7	07/16/14	100.22	4.16	NM	96.06
	09/10/14		3.16	NM	97.06
	12/10/14		2.83	NM	97.39
	02/19/15		3.94	NM	96.28
	05/21/15		2.22	NM	98.00
	08/19/15		1.52	NM	98.70
	11/19/15		3.16	NM	97.06
	02/24/16		2.63	NM	97.59
	05/26/16		2.31	NM	97.91
	08/08/16		4.33	NM	95.89
	10/18/16		3.18	NM	97.04
MW-8	07/16/14	99.28	7.45	NM	91.83
	09/10/14		5.54	NM	93.74
	12/10/14		6.20	NM	93.08
	02/19/15		6.49	NM	92.79
	05/21/15		4.90	NM	94.38
	08/19/15		5.17	NM	94.11
	11/19/15		8.29	NM	90.99
	02/24/16		6.92	NM	92.36
	05/26/16		5.67	NM	93.61
	08/08/16		9.39	NM	89.89
	10/18/16		5.06	NM	94.22
MW-9	07/16/14	102.32	11.82	NM	90.50
	09/10/14		10.85	NM	91.47
	12/10/14		9.97	NM	92.35
	02/19/15		9.84	NM	92.48
	05/21/15		9.10	NM	93.22
	08/19/15		10.87	NM	91.45
	11/19/15		13.24	NM	89.08

TABLE 3 Continued

Well	Date	Top of Casing Elevation	Depth to Water	Free Product Thickness	Groundwater Elevation
MW-9 Cont.	02/24/16	102.32	11.40	NM	90.92
	05/26/16		9.61	NM	92.71
	08/08/16		13.65	NM	88.67
	10/18/16		12.49	NM	89.83
MW-10	07/16/14	101.01	8.62	NM	92.39
	09/10/14		7.96	NM	93.05
	12/10/14		4.93	NM	96.08
	02/19/15		5.16	NM	95.85
	05/21/15		4.94	NM	96.07
	08/19/15		5.31	NM	95.70
	11/19/15		7.60	NM	93.41
	02/24/16		4.86	NM	96.15
	05/26/16		4.81	NM	96.20
	08/08/16		11.45	NM	89.56
	10/18/16		10.53	NM	90.48
MW-11	09/10/14	101.07	14.73	NM	86.34
	12/10/14		4.27	NM	96.80
	02/19/15		NM-1	NM-1	NM-1
	05/21/15		5.36	NM	95.65
	08/19/15		7.21	NM	93.86
	11/19/15		11.88	NM	89.19
	02/24/16		5.33	NM	95.74
	05/26/16		5.27	NM	95.80
	08/08/16		13.67	NM	87.40
	10/18/16		15.74	NM	85.33
MW-12	09/10/14	99.66	8.03	NM	91.63
	12/10/14		7.94	NM	91.72
	02/19/15		7.93	NM	91.73
	05/21/15		7.04	NM	92.62
	08/19/15		8.57	NM	91.09
	11/19/15		11.31	NM	88.35
	02/24/16		8.98	NM	90.68
	05/26/16		7.58	NM	92.08
	08/08/16		11.56	NM	88.10
	10/18/16		10.94	NM	88.72

All measurements reported in feet
All elevations referenced to an on-site benchmark (formerly well MW-3) assigned an elevation of 100.00 feet
*Groundwater elevation corrected for the presence of free product using a specific gravity of 0.80
NM = Not measured
NM-1 = Not measured due to ice in well

TABLE 4
Historical Groundwater Analytical Results - Select VOCs, Naphthalenes, and Total Lead
Former Herdrich Bulk Plant
2920 Connett Avenue
Fort Wayne, Indiana

Well ID	Sample Date	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methyl tertiary-butyl ether	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Total Lead	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
MW-1	04/23/13	**387**	<5	<5	158	<10	9.96	<5	<5	1.15*	3.03*	<1.0*	20.2	<5	36.5	17	153	47.4	648
	12/16/13	95.2	<5	<5	11.1	<10	<5	<5	<5	<1.0*	<1.0*	<1.0*	<5	<5	<5	<10	14.8	<5	25.7
	05/13/14	11.9	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	6.42	<5	<10
	07/16/14	10.9	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	<5	<5	<10
	09/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	<5	<5	<10
	12/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/21/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	11/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/24/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/08/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
MW-2	04/23/13	58.6	8.34	<5	11.5	<10	28.1	<5	<5	30.2*	34.6*	24.7*	69.8	<5	<5	<10	<5	<5	<10
	12/16/13	87.3	<5	<5	8.98	<10	38.6	108	<5	47.8*	46.2*	50.4*	<5	<5	<5	<10	<5	<5	<10
	05/13/14	75.2	10.6	16.0	11.0	<10	35.5	<5	<5	10.6	9.81	21.7	92.3	<5	<5	NA	<5	<5	<10
	07/16/14	54.3	<5	7.51	7.12	<10	21.1	<5	<5	51.9	36.8	64.5	45.7	<5	<5	<10	<5	<5	<10
	09/10/14	76.3	5.96	7.26	15.8	<10	22.9	<5	<5	85.6	57.8	77.6	48.1	<5	<5	<10	<5	<5	<10
	12/10/14	61.8	7.29	8.39	6.81	<10	25.9	<5	<5	147	115	93.3	73.5	<5	<5	NA	<5	<5	<10
	02/19/15	67.8	10.5	10.4	6.51	<10	32.4	7.67	<5	112	95.6	92.0	85.6	<5	<5	NA	<5	<5	<10
	05/21/15	80.4	13.2	11.9	7.99	<10	36.4	<5	<5	91.4	99.3	93.2	96.4	<5	<5	NA	<5	<5	<10
	08/19/15	60.6	13.5	11.7	5.30	<10	33.4	<5	<5	52.4	74.3	93.0	89.5	<5	<5	NA	<5	<5	<10
	11/19/15	33.8	7.73	9.14	<5	<10	23.8	<5	<5	84.1	73.3	52.6	65.0	<5	<5	NA	<5	<5	<10
	02/24/16	28.2	<5	<5	<5	<10	14.4	<5	<5	84.7	29.1	48.3	36.8	<5	<5	NA	<5	<5	<10
	05/26/16	43.5	6.10	7.77	<5	<10	22.8	<5	<5	98.1	69.3	68.1	59.5	<5	<5	NA	<5	<5	<10
	08/08/16	25.9	<5	6.84	<5	<10	16.7	<5	<5	61.1	26.7	<1.4	42.8	<5	<5	NA	<5	<5	<10
	10/18/16	99.7	6.79	9.54	37.3	<10	26.0	<5	<5	105	<5	16.9	65.8	<5	<5	NA	<5	<5	<10
MW-3	04/23/13	**4,180**	<50	<50	1,150	<100	70.3	<50	96.7	8.60*	27.9*	207*	116	<50	136	<10	1,100	310	5,790
	12/16/13	**5,460**	<50	<50	1,930	<100	93.0	<50	111	13.7*	28.4*	391*	185	<50	198	45	1,560	400	5,754
RCG RGT		*5*	*1,000*	*2,000*	*700*	*1,500*	*450*	*uA*	*140*	*11*	*36*	*1.7*	*660*	*5*	*1,000*	*15*	*15*	*120*	*10,000*
RCG RGVE		*28*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*110*	*uA*	*110*	*uA*	*uA*	*uA*	*uA*	*uA*
RCG C/IGVE		*120*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*460*	*uA*	*470*	*uA*	*uA*	*uA*	*uA*	*uA*

TABLE 4 Continued

Well ID	Sample Date	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methyl tertiary-butyl ether	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Total Lead	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
MW-3 Cont.	05/13/14	**6,050**	<50	<50	2,880	<100	99.5	64.8	96.5	95.2	115	412	230	<50	217	NA	1,630	492	9,230
	07/16/14	**6,700**	<50	<50	2,890	<100	104	69.0	135	521	417	**881**	236	<50	249	<10	1,870	509	9,760
	09/10/14	**5,700**	<50	<50	1,750	<100	82.2	<50	77.7	<50	57.0	**648**	180	<50	216	<10	1,560	445	4,168
	12/10/14	**4,370**	<50	<50	1,790	121	65.2	<50	<40	108	134	**635**	162	<50	165	NA	1,600	395	8,044
	02/19/15	**5,260**	<50	<50	2,620	<100	102	55.2	<40	<50	63.1	**602**	212	<50	176	NA	1,780	501	9,455
	05/21/15	**4,350**	<50	<50	2,890	<100	113	56.2	<40	<50	<50	**607**	264	<50	199	NA	2,100	598	10,400
	08/19/15	**8,660**	<50	<50	4,530	<100	91.6	<50	<40	<50	<50	235	237	<50	170	NA	1,750	474	16,000
	11/19/15	**5,230**	<50	<50	1,640	158	85.8	<50	<40	57.3	83.0	**527**	207	<50	174	NA	1,620	474	7,560
	Well Destroyed During Excavation																		
MW-3R	02/24/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	2.33	<5	<5	<5	NA	<5	<5	<10
	08/08/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
MW-4	04/23/13	**6,860**	<50	<50	1,360	<100	87.7	<50	174	98.0*	353*	309*	193	<50	785	19	1,440	388	7,750
	12/16/13	**7,280**	<50	<50	1,460	<100	75.8	<50	107	40.8*	69.8*	232*	161	<50	980	28	1,410	376	5,150
	05/13/14	**3,820**	<50	<50	1,270	<100	73.5	<50	<40	123	110	145	151	<50	774	NA	975	305	3,590
	07/16/14	**4,890**	69.2	<50	1,610	<100	130	144	105	588	412	**1,030**	313	<50	838	<10	1,960	598	4,960
	09/10/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/10/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/19/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/21/15	**543**	74.2	<50	1,400	<100	119	84.5	<40	85.8	144	401	266	<50	287	NA	1,890	608	4,870
	08/19/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/15	**1,830**	<50	<50	1,030	234	63.3	<50	<40	74.8	105	313	126	<50	417	NA	994	284	2,920
	Well Destroyed During Excavation																		
MW-4R	02/24/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/08/16	9.05	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	6.40	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
MW-5	05/20/13	57.3	<5	<5	<5	<10	13.9	<5	<5	<1.0*	<1.0*	<1.0*	22.3	<5	<5	<10	<5	<5	<10
	12/16/13	<5	<5	<5	<5	<10	<5	<5	<5	<1.0*	<1.0*	<1.0*	<5	<5	<5	<10	<5	<5	<10
	05/13/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	07/16/14	<5	<5	<5	<5	<10	<5	<5	<5	<1.0	<1.0	<1.0	<5	<5	<5	<10	<5	<5	<10
	09/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	<5	<5	<10
	12/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
RCG RGT		*5*	*1,000*	*2,000*	*700*	*1,500*	*450*	*uA*	*140*	*11*	*36*	*1.7*	*660*	*5*	*1,000*	*15*	*15*	*120*	*10,000*
RCG RGVE		*28*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*110*	*uA*	*110*	*uA*	*uA*	*uA*	*uA*	*uA*
RCG C/IGVE		*120*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*460*	*uA*	*470*	*uA*	*uA*	*uA*	*uA*	*uA*

TABLE 4 Continued

Well ID	Sample Date	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methyl tertiary-butyl ether	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Total Lead	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
MW-5 Cont.	05/21/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	11/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/24/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/08/16	12.7	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
MW-6	12/16/13	<5	<5	<5	<5	<10	<5	<5	<5	<1.0*	<1.0*	<1.0*	<5	<5	<5	<10	<5	<5	<10
	05/13/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	07/16/14	<5	<5	<5	<5	<10	<5	<5	<5	<1.0	<1.0	<1.0	<5	<5	<5	<10	<5	<5	<10
	09/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	<5	<5	<10
	12/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/21/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	11/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/24/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/08/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
MW-7	07/16/14	<5	<5	<5	<5	<10	<5	<5	<5	<1.0	<1.0	<1.0	<5	<5	<5	<10	<5	<5	<10
	09/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	<5	<5	<10
	12/10/14	<5	<5	<5	<5	<10	18.8	<5	<5	7.33	<5	85.7	27.6	<5	<5	NA	<5	<5	<10
	02/19/15	<5	<5	<5	<5	<10	15.7	<5	<5	<5	<5	43.6	20.9	<5	<5	NA	<5	<5	<10
	05/21/15	<5	<5	<5	8.63	<10	24.7	<5	<5	<5	<5	78.0	34.3	<5	<5	NA	<5	<5	<10
	08/19/15	<5	<5	<5	<5	<10	19.1	<5	<5	61.3	85.9	110	28.9	<5	<5	NA	<5	<5	<10
	11/19/15	<5	<5	<5	<5	<10	15.1	<5	<5	5.13	<5	44.1	21.8	<5	<5	NA	<5	<5	<10
	02/24/16	<5	<5	<5	<5	<10	15.3	<5	<5	<5	<5	16.4	23.5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	13.4	<5	<5	6.53	<5	55.0	20.1	<5	<5	NA	<5	<5	<10
	08/08/16	<5	<5	<5	<5	<10	13.4	<5	<5	6.31	<5	26.2	19.0	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	11.6	<5	<5	5.47	<5	40.0	16.8	<5	<5	NA	<5	<5	<10
MW-8	07/16/14	<5	<5	<5	<5	<10	<5	<5	<5	<1.0	<1.0	<1.0	<5	<5	<5	<10	<5	<5	<10
	09/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	<5	<5	<10
	12/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
RCG RGT		*5*	*1,000*	*2,000*	*700*	*1,500*	*450*	*uA*	*140*	*11*	*36*	*1.7*	*660*	*5*	*1,000*	*15*	*15*	*120*	*10,000*
RCG RGVE		*28*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*110*	*uA*	*110*	*uA*	*uA*	*uA*	*uA*	*uA*
RCG C/IGVE		*120*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*460*	*uA*	*470*	*uA*	*uA*	*uA*	*uA*	*uA*

TABLE 4 Continued

Well ID	Sample Date	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methyl tertiary-butyl ether	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Total Lead	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
MW-8 Cont.	05/21/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	11/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/24/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/08/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
MW-9	07/16/14	<5	<5	<5	42.6	<10	<5	<5	26.6	12.6	7.86	21.5	5.25	<5	<5	<10	58.0	13.6	92.0
	09/10/14	<5	<5	<5	7.45	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	12.5	<5	<10
	12/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/19/15	<5	5.86	5.90	182	<10	21.1	6.36	<5	66.4	87.3	176	36.7	<5	<5	NA	664	44.6	267
	05/21/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	11/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/24/16	<5	<5	<5	<5	<10	<5	<5	5.78	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/08/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	<5	<5	6.86	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
MW-10	07/16/14	11.0	<5	7.86	204	<10	26.1	13.1	6.38	92.2	67.9	133	39.6	<5	7.75	<10	381	104	385
	09/10/14	8.49	<5	6.41	183	<10	24.8	6.85	<5	54.2	61.4	146	44.1	<5	<5	<10	508	87.9	265
	12/10/14	<5	5.88	5.63	252	<10	24.5	6.24	<5	118	138	211	42.7	<5	<5	NA	558	33.5	236
	02/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/21/15	<5	11.3	10.3	402	<10	41.6	8.91	<5	87.3	126	196	76.4	<5	<5	NA	816	31.4	303
	08/19/15	<5	11.1	9.95	322	<10	37.4	12.9	<5	51.4	85.8	88.1	68.0	<5	<5	NA	558	52.9	292
	11/19/15	<5	8.75	9.39	205	<10	39.0	7.56	<5	71.1	87.9	189	76.2	<5	<5	NA	700	45.3	255
	02/24/16	<5	5.23	5.78	215	<10	25.0	<5	<5	67.9	57.2	128	43.1	<5	<5	NA	543	12.5	154
	05/26/16	<5	5.13	5.02	192	<10	21.6	<5	<5	59.8	47.1	119	38.1	<5	<5	NA	478	10.9	104
	08/08/16	<5	<5	<5	131	<10	13.7	<5	<5	40.3	6.78	53.9	23.0	<5	<5	NA	336	22.9	43.0
	10/18/16	<5	<5	<5	24.5	<10	<5	7.12	<5	16.7	6.60	16.9	<5	<5	<5	NA	84.5	<5	20.1
MW-11	09/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	<5	<5	<10
	12/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	5.83	<5	NA	<5	<5	<10
	02/19/15	NS-1	NS-1	NS-1	NS-1	<10	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
	05/21/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	11/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
RCG RGT		*5*	*1,000*	*2,000*	*700*	*1,500*	*450*	*uA*	*140*	*11*	*36*	*1.7*	*660*	*5*	*1,000*	15	*15*	*120*	*10,000*
RCG RGVE		*28*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*110*	*uA*	*110*	*uA*	*uA*	*uA*	*uA*	*uA*
RCG C/IGVE		*120*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*460*	*uA*	*470*	*uA*	*uA*	*uA*	*uA*	*uA*

TABLE 4 Continued

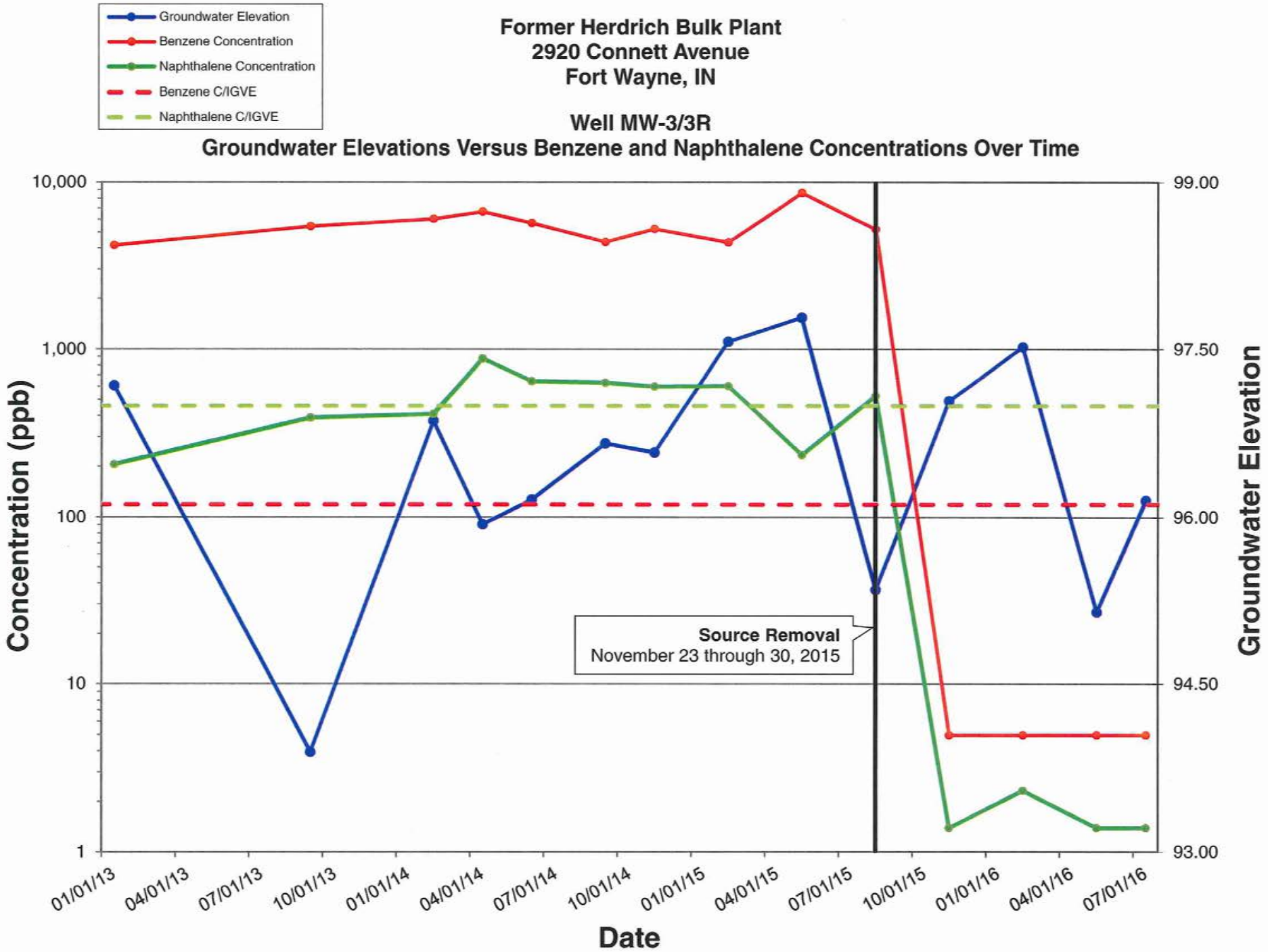
Well ID	Sample Date	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methyl tertiary-butyl ether	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Total Lead	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
MW-11 Cont.	02/24/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/08/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
MW-12	09/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	<10	<5	<5	<10
	12/10/14	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/21/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	11/19/15	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	02/24/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	05/26/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	08/08/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
	10/18/16	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<1.4	<5	<5	<5	NA	<5	<5	<10
RCG RGT		*5*	*1,000*	*2,000*	*700*	*1,500*	*450*	*uA*	*140*	*11*	*36*	*1.7*	*660*	*5*	*1,000*	*15*	*15*	*120*	*10,000*
RCG RGVE		*28*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*110*	*uA*	*110*	*uA*	*uA*	*uA*	*uA*	*uA*
RCG C/IGVE		*120*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*uA*	*460*	*uA*	*470*	*uA*	*uA*	*uA*	*uA*	*uA*

Results presented in parts per billion (ppb)
VOCs = Volatile organic compounds
*Indicates parameter analyzed via US EPA Method 8270 SIM; All other VOC parameters analyzed via Method 8260
NS = Not sampled due to the presence of free product
NS-1 = Not sampled due to ice in well
RCG RGT = 2016 Remediation Closure Guide Residential Groundwater Tap screening level
RCG RGVE = 2016 Remediation Closure Guide Residential Groundwater Vapor Exposure screening level
RCG C/IGVE = 2016 Remediation Closure Guide Commercial/Industrial Groundwater Vapor Exposure screening level
uA = Unavailable; screening level not established for this parameter
Results in **BOLD** exceed RCG C/IGVE screening level

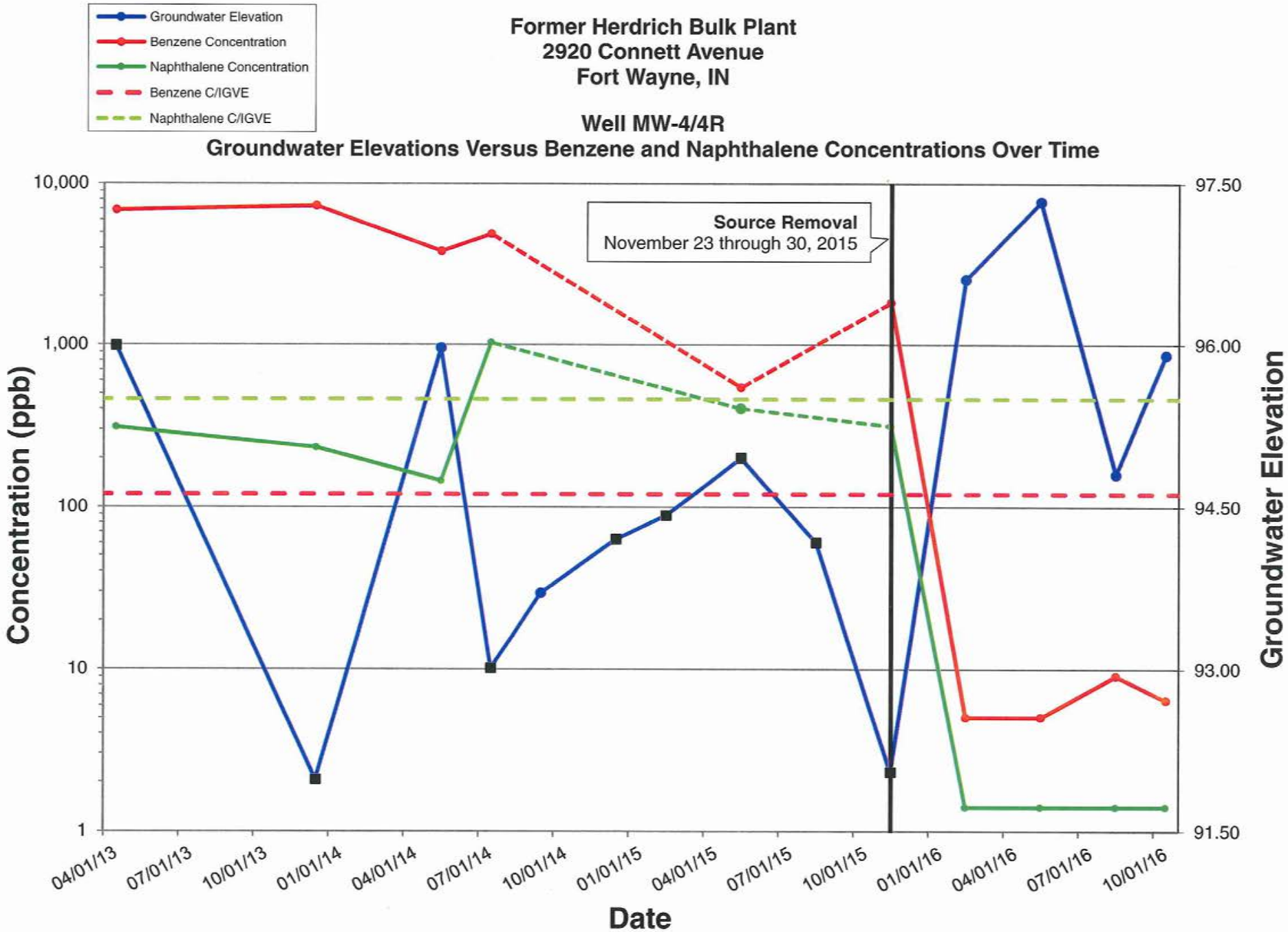
TABLE 5
Historical Free Product Recovery
Former Herdrich Bulk Plant
2920 Connett Avenue
Fort Wayne, Indiana

Well No.	Date	Depth to Product	Depth to Water	Product Thickness	Product Thickness in Bailer	Product Recovered (gallons)
MW-4	04/23/13	3.28	3.30	0.02	0.06	0.01
	05/20/13	4.70	7.38	2.68	13.72	1.26
	06/10/13	3.95	5.43	1.48	8.92	0.82
	06/24/13	4.79	6.97	2.18	12.36	1.13
	*07/08/13	4.68	5.63	0.95	NM	†0.25
	07/22/13	5.43	6.18	0.75	2.19	0.20
	*08/05/13	4.42	5.16	0.74	NM	†0.20
	*08/19/13	6.11	6.62	0.51	NM	†0.15
	*09/06/13	7.67	8.72	1.05	NM	†0.50
	*10/21/13	7.90	8.61	0.71	NM	†0.75
	11/18/13	6.76	7.08	0.32	1.39	0.13
	12/16/13	7.12	8.00	0.88	0.93	0.09
	*01/13/14	4.91	6.10	1.19	NM	†0.50
	02/03/14	4.38	4.75	0.37	1.54	0.14
	02/10/14	4.78	4.97	0.19	0.61	0.06
	*03/03/14	3.67	3.95	0.28	NM	†0.75
	*03/27/14	3.50	3.52	0.02	NM	†0.01
	04/17/14	3.01	3.06	0.05	0.06	0.01
	05/06/14	3.94	4.07	0.13	0.11	0.01
	07/16/14	6.15	6.69	0.54	1.70	0.16
	12/10/14	4.89	5.81	0.92	3.00	0.28
	*02/19/15	4.72	5.37	0.65	NM	†0.15
	05/21/15	4.24	4.67	0.43	0.99	0.09
	08/19/15	5.02	5.42	0.40	0.36	0.03
	11/19/15	7.07	7.85	0.78	1.22	0.11
	Well Destroyed During Fourth Quarter 2015 Excavation					
					Total :	**7.79**

Depths and thicknesses reported in feet
NM = Not measured
*Free product removed by peristaltic pump
†Estimated volume
NOTE: Monitoring well MW-4 was replaced by MW-4R following the Fourth Quarter 2015 excavation; Free product has not been observed in well MW-4R since installation.



NOTE: Well MW-3R was installed on December 14, 2015 to replace well MW-3, which was destroyed during source removal.



NOTES: Well MW-4R was installed on December 14, 2015 to replace well MW-4, which was destroyed during source removal.
Black, square data points indicate groundwater elevation was corrected due to the presence of free product using a specific gravity of 0.80.

ATTACHMENT C

Well Sampling Data Sheet

WELL SAMPLING DATA SHEET

SITE Fort Wayne 2920 Connett Ave. **DATE** 10/18/16

PERSONNEL C. Smith and R. Yeater

ARRIVAL 9:34 **DEPARTURE** 13:07 **CONDITIONS** 70s, cloudy, windy

WELL ID	*WELL DEPTH	WATER DEPTH	**3** VOLUMES	VOLUME PURGED	TIME SAMPLED	COMMENTS	WELL INSPECTION
MW-6	12.93	6.07	3.43	1.75/dry	1202 RY	cloudy, no odor	✓
MW-8	12.49	5.06	3.72	3.00/dry	1212 CS	clear, no odor	✓
MW-11	16.25	15.74	0.61	nonpurge	1044 CS	murky, no odor; only 1 vial (insufficient H_2O)	✓
MW-12	16.39	10.94	2.73	1.25/dry	1059 RY	cloudy, no odor	✓
MW-1	12.68	3.98	4.35	4.50	1214 RY	cloudy, no odor	✓
MW-5	13.13	9.01	2.06	1.25/dry	1218 CS	clear, no odor	✓
MW-4R	13.11	3.56	4.78	4.00/dry	1227 CS	cloudy, no odor	✓
MW-9	15.35	12.49	1.43	0.50/dry	1051 RY	cloudy, no odor	✓
MW-3R	12.99	3.74	4.63	4.75	1224 RY	cloudy, no odor	✓
MW-7	12.62	3.18	4.72	3.00/dry	1241 RY	clear, no odor	✓
MW-10	14.67	10.53	2.07	2.25	1058 CS	cloudy, slight petro odor	✓
MW-2	12.95	5.48	3.74	2.75/dry	1243 CS	clear, slight petro odor	✓

DUPLICATE/BLANKS***

MS/MSD	MW-7	1241 RY	
DUP-1	Duplicate of MW-2	1100 CS	
TB-1	Trip Blank	1000 CS	

*Obtain well depth from PM or well construction diagram – do not measure unless directed
** To find 3 well volumes, use: {well depth – depth to water} x 0.5 (for 2 inch wells only)
*** See PM for required duplicates/blanks

SYSTEM OPERATION: N/A

EQUIPMENT: WLI #5, Decon materials, Sampled 12 wells

MILEAGE: 224 (RY) 94 (CS)

I conducted a final site inspection and verify that all wells have been properly capped and secured: Chelsea Smith

ATTACHMENT D

Laboratory Analytical Report

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

Ms. Ashley Pepple
Creek Run
P.O. Box 114
Montpelier, IN 47359

October 25, 2016

ENVision Project Number: 2016-3020
Client Project Name: Fort Wayne, 2920 Connett Ave

Dear Ms. Pepple,

Please find the attached analytical report for the samples received October 19, 2016. 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.

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,

Cheryl A. Crum

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

PA DEP Lab Code: 68-04846 NELAP Cert: 006

ACCREDITED IN ACCORDANCE WITH nelap

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

Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-1
Envision Sample Number: 16-21542
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 12:14
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	108%		
1,2-Dichloroethane-d4 (surrogate)	108%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	10-20-16/16:30		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-2
Envision Sample Number: 16-21543
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 12:43
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	**99.7**	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	**6.79**	5	
sec-Butylbenzene	**9.54**	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	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	**37.3**	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)	**26.0**	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	**105**	5	N
2-Methylnaphthalene	< 5	5	N
Naphthalene	**16.9**	1.4	
n-Propylbenzene	**65.8**	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	**7.90**	5	
Xylene, Ortho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	101%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	10-20-16/16:50		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-3R
Envision Sample Number: 16-21544
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 12:24
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	106%		
1,2-Dichloroethane-d4 (surrogate)	106%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	10-20-16/17:09		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-4R
Envision Sample Number: 16-21545
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 12:27
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	**6.40**	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	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	106%		
1,2-Dichloroethane-d4 (surrogate)	100%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	10-20-16/17:28		
Analyst Initials	tjg		

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Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-5
Envision Sample Number: 16-21546
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 12:18
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	109%		
1,2-Dichloroethane-d4 (surrogate)	102%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	10-20-16/17:47		
Analyst Initials	tjg		

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Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-6
Envision Sample Number: 16-21547
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 12:02
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	110%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	10-20-16/18:06		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-7
Envision Sample Number: 16-21548
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 12:41
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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)	**11.6**	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	**5.47**	5	N
2-Methylnaphthalene	< 5	5	N
Naphthalene	**40.0**	1.4	
n-Propylbenzene	**16.8**	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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	90%		
1,2-Dichloroethane-d4 (surrogate)	96%		
Toluene-d8 (surrogate)	86%		
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	10-20-16/18:25		
Analyst Initials	tjg		

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Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-8
Envision Sample Number: 16-21549
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 12:12
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	107%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	10-20-16/19:22		
Analyst Initials	tjg		

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Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-9
Envision Sample Number: 16-21550
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 10:51
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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Analytical Report

8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	**6.86**	5	
1-Methylnaphthalene	< 5	5	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	109%		
1,2-Dichloroethane-d4 (surrogate)	102%		
Toluene-d8 (surrogate)	94%		
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	10-20-16/19:41		
Analyst Initials	tjg		

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Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(1)

Client Sample ID: MW-10
Envision Sample Number: 16-21551
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 10:58
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	**24.5**	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	**7.12**	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	**16.7**	5	N
2-Methylnaphthalene	**6.60**	5	N
Naphthalene	**16.9**	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	**84.5**	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	**20.1**	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	**20.1**	10	
Dibromofluoromethane (surrogate)	108%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	10-20-16/20:01		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(2)

Client Sample ID: MW-11
Envision Sample Number: 16-21552
Sample Matrix: water
Sample Collection Date/Time: 10/18/16 10:44
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	107%		
1,2-Dichloroethane-d4 (surrogate)	107%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	10-20-16/22:15		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(2)

Client Sample ID: MW-12
Envision Sample Number: 16-21553
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 10:59
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	109%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	10-20-16/22:34		
Analyst Initials	tjg		

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Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(2)

Client Sample ID: DUP-1
Envision Sample Number: 16-21554
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 11:00
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	**100**	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	**5.86**	5	
sec-Butylbenzene	**8.70**	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	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	**36.9**	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)	**25.6**	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	**111**	5	N
2-Methylnaphthalene	< 5	5	N
Naphthalene	**16.8**	1.4	
n-Propylbenzene	**65.1**	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	**6.46**	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	104%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	10-20-16/22:53		
Analyst Initials	tjg		

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Analytical Report

Client Name: CREEK RUN

Project ID: FORT WAYNE 2920 CONNETT AVE

Client Project Manager: ASHLEY PEPPLE

ENVision Project Number: 2016-3020

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 102016VW(2)

Client Sample ID: TB-1
Envision Sample Number: 16-21555
Sample Matrix: water

Sample Collection Date/Time: 10/18/16 10:00
Sample Received Date/Time: 10/19/16 12:50

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
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	N
2-Methylnaphthalene	< 5	5	N
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, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	108%		
1,2-Dichloroethane-d4 (surrogate)	106%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	10-20-16/23:31		
Analyst Initials	tjg		

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EPA 8260 Quality Control Data

ENVision Batch Number: 102016VW(1)

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
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	
1,1,2,2-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, 0rtho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	109%		
1,2-Dichloroethane-d4 (surrogate)	108%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	10-20-16/09:41		
Analyst Initials	tjg		

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8260 QC Continued...

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	49.7	50	51.0	99%	102%	2.6	
1,1-Dichloroethene	41.7	50	50.3	83%	101%	18.7	
trans-1,2-Dichloroethene	48.5	50	49.4	97%	99%	1.8	
Methyl-tert-butyl-ether	48.3	50	49.2	97%	98%	1.8	
1,1-Dichloroethane	47.8	50	48.9	96%	98%	2.3	
cis-1,2-Dichloroethene	47.6	50	48.9	95%	98%	2.7	
Chloroform	45.8	50	47.0	92%	94%	2.6	
1,1,1-Trichloroethane	46.9	50	48.0	94%	96%	2.3	
Benzene	48.5	50	49.9	97%	100%	2.8	
Trichloroethene	47.7	50	49.5	95%	99%	3.7	
Toluene	48.8	50	50.7	98%	101%	3.8	
1,1,1,2-Tetracholorethane	53.8	50	53.8	108%	108%	0.0	
Chlorobenzene	51.1	50	51.9	102%	104%	1.6	
Ethylbenzene	50.3	50	50.7	101%	101%	0.8	
o-Xylene	52.1	50	54.7	104%	109%	4.9	
n-Propylbenzene	51.1	50	52.2	102%	104%	2.1	
Dibromofluoromethane (surrogate)	92%		88%				
1,2-Dichloroethane-d4 (surrogate)	89%		89%				
Toluene-d8 (surrogate)	97%		96%				
4-bromofluorobenzene (surrogate)	102%		103%				
Analysis Date/Time:	10-20-16/08:45		10-20-16/09:03				
Analyst Initials	tjg		tjg				

Matrix Spike/Matrix Spike Dup:	Sample Results (ug/L)	MS Res (ug/L)	MSD Res (ug/L)	Spk Conc (ug/L)	MS Rec	MSD Rec	% D	Flag
Vinyl Chloride	0.0	43.4	41.2	50	87%	82%	5.2	
1,1-Dichloroethene	0.0	43.1	43.2	50	86%	86%	0.2	
trans-1,2-Dichloroethene	0.0	45.3	45.0	50	91%	90%	0.7	
Methyl-tert-butyl-ether	0.0	48.7	48.4	50	97%	97%	0.6	
1,1-Dichloroethane	0.0	45.0	43.9	50	90%	88%	2.5	
cis-1,2-Dichloroethene	0.0	44.7	42.1	50	89%	84%	6.0	
Chloroform	0.0	42.8	42.2	50	86%	84%	1.4	
1,1,1-Trichloroethane	0.0	42.7	45.8	50	85%	92%	7.0	
Benzene	0.0	46.2	41.0	50	92%	82%	11.9	
Trichloroethene	0.0	41.5	45.6	50	83%	91%	9.4	
Toluene	0.0	45.6	48.5	50	91%	97%	6.2	
1,1,1,2-Tetracholorethane	0.0	50.9	47.1	50	102%	94%	7.8	
Chlorobenzene	0.0	47.3	47.5	50	95%	95%	0.4	
Ethylbenzene	0.0	48.0	47.1	50	96%	94%	1.9	
o-Xylene	0.0	49.1	57.9	50	98%	116%	16.4	
n-Propylbenzene	16.8	59.7	57.9	50	86%	82%	4.3	
Dibromofluoromethane (surrogate)	90%	79%	79%					
1,2-Dichloroethane-d4 (surrogate)	96%	82%	80%					
Toluene-d8 (surrogate)	86%	88%	86%					
4-bromofluorobenzene (surrogate)	93%	97%	92%					
Analysis Date/Time:	10-20-16/18:25	10-20-16/18:44	10-20-16/19:03					
Analyst Initials	tjg	tjg	tjg					
Originial Sample Number Spiked:	16-21548							

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Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
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EPA 8260 Quality Control Data

ENVision Batch Number: 102016VW(2)

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
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	
1,1,2,2-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, 0rtho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	88%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	10-20-16/21:56		
Analyst Initials	tjg		

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8260 QC Continued...

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	42.9	50	44.3	86%	89%	3.2	
1,1-Dichloroethene	43.7	50	46.6	87%	93%	6.4	
trans-1,2-Dichloroethene	45.7	50	46.7	91%	93%	2.2	
Methyl-tert-butyl-ether	49.1	50	49.8	98%	100%	1.4	
1,1-Dichloroethane	44.5	50	46.7	89%	93%	4.8	
cis-1,2-Dichloroethene	46.6	50	46.8	93%	94%	0.4	
Chloroform	44.2	50	44.8	88%	90%	1.3	
1,1,1-Trichloroethane	43.4	50	45.0	87%	90%	3.6	
Benzene	45.9	50	47.4	92%	95%	3.2	
Trichloroethene	45.4	50	46.3	91%	93%	2.0	
Toluene	46.4	50	48.8	93%	98%	5.0	
1,1,1,2-Tetracholorethane	50.1	50	50.0	100%	100%	0.2	
Chlorobenzene	48.2	50	48.5	96%	97%	0.6	
Ethylbenzene	46.2	50	47.0	92%	94%	1.7	
o-Xylene	48.9	50	48.7	98%	97%	0.4	
n-Propylbenzene	46.2	50	47.4	92%	95%	2.6	
Dibromofluoromethane (surrogate)	80%		81%				
1,2-Dichloroethane-d4 (surrogate)	81%		79%				
Toluene-d8 (surrogate)	89%		88%				
4-bromofluorobenzene (surrogate)	93%		90%				
Analysis Date/Time:	10-20-16/20:58		10-20-16/21:17				
Analyst Initials	tjg		tjg				

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Flag Number	Comments
N	Analyte is not included in our NELAC accreditation.
1	Reported value is below the reporting limit but above the MDL.

ENVision Proj#: 2016-3020 Page 1 of 2

CHAIN OF CUSTODY RECORD

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

Client: Creek Run	Invoice Address: Accounts Payable
Report Address: PO Box 114 Montpelier, IN 47359	Project Name: Fort Wayne 2920 Connett Ave.
Report To: apepple@creekrun.com	Lab Contact: Cheryl Crum
Phone: 765-728-8851	Sampled by: C. Smith, R. Yeater
Fax: 765-728-3041	P.O. Number:
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

REQUESTED PARAMETERS

VOCs + Naph. 8260

Sample Integrity:

Cooler Temp: 2 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	VOCs + Naph. 8260							HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
MW-1	10/18/16	1214	G	WT	X							3						16-21542
MW-2		1243			X							3						16-21543
MW-3R		1224			X							3						16-21544
MW-4R		1227			X							3						16-21545
MW-5		1218			X							3						16-21546
MW-6		1202			X							3						16-21547
MW-7 MS/MSD		1241			X							9						16-21548
MW-8		1212			X							3						16-21549
MW-9		1051			X							3						16-21550
MW-10		1058			X							3						16-21551
MW-11	✓	1044	✓	✓	X							~~3~~ 1	CS 10/18/16					16-21552

Comments: Creek Run requests a 7 day TAT by 10/27/16 Level IV QA/QC MS/MSD of ~~MW-3~~ CS 10/18/16 MW-7

Relinquished by:	Date	Time	Received by:	Date	Time
Chelsea Smith	10-19-16	1000	Amy Armstrong	10-19-16	1000
Amy Armstrong	10-19-16	12:50		10/19/16	12:50

OK AP

CHAIN OF CUSTODY RECORD

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

Client: Creek Run	Invoice Address: Accounts Payable
Report Address: PO Box 114 Montpelier, IN 47359	Project Name: Fort Wayne 2920 Connett Ave.
Report To: apepple@creekrun.com	Lab Contact: Cheryl Crum
Phone: 765-728-8051	Sampled by: C. Smith, R. Yeater
Fax: 765-728-3041	P.O. Number:
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

REQUESTED PARAMETERS

VOCs + Naph. 8260

Sample Integrity:

Cooler Temp: 2 °C
(Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	VOCs + Naph. 8260							HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
MW-12	10/18/16	1059	G	WT	X							3						16-21553
DUP-1	↓	1100	↓	↓	X							3						16-21554
TB-1	↓	1000	↓	↓	X							3						16-21555

Comments: Creek Run requests a 7 day TAT by 10/27/16 level IV QA/QC MS/MSD of MW-7

Relinquished by:	Date	Time	Received by:	Date	Time
Chelsea Smith	10-19-16	1000	[illegible]	10-19-16	1000
[illegible]	10-19-16	12:50	[illegible]	10/19/16	12:50

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8260 VOC
Package Review

ENVision Project#: 2016-3020

✓ Sequence Log

✓ 8260 Soil / Water Limits

Initial Calibration Data Calibration Curve: 093016RC 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: Cheryl Crum

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8260 VOC

- Sequence Log
- 8260 Soil / Water Limits

Injection Log

Directory: C:\HPCHEM\1\DATA\102016

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
	1	0101001.D	1.	bfb/ccv 50ppb	qc	20 Oct 2016 08:26
	2	0201002.D	1.	lcs 50ppb	qc	20 Oct 2016 08:45
	3	0301003.D	1.	lcsd 50ppb	qc	20 Oct 2016 09:03
	4	0401004.D	1.	mb	qc	20 Oct 2016 09:22
	5	0501005.D	1.	mb	qc	20 Oct 2016 09:41
	6	0601006.D	1.	16-21608 rush	a	20 Oct 2016 10:00
	7	0701007.D	1.	ms16-21608 rush	b	20 Oct 2016 10:20
	8	0801008.D	1.	msd16-21608 rush	c	20 Oct 2016 10:39
	9	0901009.D	1.	16-21609 rush	a	20 Oct 2016 10:59
	10	1001010.D	1.	16-21514 rush	a	20 Oct 2016 11:19
	11	1101011.D	1.	16-21515 rush	a	20 Oct 2016 11:38
	12	1201012.D	1.	16-21516 rush	a	20 Oct 2016 11:57
	13	1301013.D	1.	16-21529 tb	a	20 Oct 2016 12:17
	14	1401014.D	1.	16-21473 tb	a	20 Oct 2016 12:37
	15	1501015.D	1.	16-21493	a	20 Oct 2016 12:57
	16	1601016.D	1.	16-21494	a	20 Oct 2016 13:16
	17	1701017.D	1.	16-21511 tb	a	20 Oct 2016 13:36
	18	1801018.D	1.	lcsd-50ppb	qc	20 Oct 2016 13:56
	19	1901019.D	1.	16-21530	a	20 Oct 2016 14:15
	20	2001020.D	1.	16-21531	a	20 Oct 2016 14:35
	21	2101021.D	1.	16-21532	a	20 Oct 2016 14:54
	22	2201022.D	1.	16-21533	a	20 Oct 2016 15:14
	23	2301023.D	1.	16-21534 tb	a	20 Oct 2016 15:34
	24	2401024.D	1.	16-21535:10	a	20 Oct 2016 15:53
	25	2501025.D	1.	16-21536 tb	a	20 Oct 2016 16:12
	26	2601026.D	1.	16-21542	a	20 Oct 2016 16:30
	27	2701027.D	1.	16-21543	a	20 Oct 2016 16:50
	28	2801028.D	1.	16-21544	a	20 Oct 2016 17:09
	29	2901029.D	1.	16-21545	a	20 Oct 2016 17:28
	30	3001030.D	1.	16-21546	a	20 Oct 2016 17:47
	31	3101031.D	1.	16-21547	a	20 Oct 2016 18:06
	32	3201032.D	1.	16-21548	a	20 Oct 2016 18:25
	33	3301033.D	1.	16-21548ms	b	20 Oct 2016 18:44
	34	3401034.D	1.	16-21548msd	c	20 Oct 2016 19:03
	35	3501035.D	1.	16-21549	a	20 Oct 2016 19:22
	36	3601036.D	1.	16-21550	a	20 Oct 2016 19:41
	37	3701037.D	1.	16-21551	a	20 Oct 2016 20:01
	38	3801038.D	1.	16-21551:10	a	20 Oct 2016 20:20
	39	3901039.D	1.	bfb/ccv 50ppb	qc	20 Oct 2016 20:39
	40	4001040.D	1.	lcs 50ppb	qc	20 Oct 2016 20:58
	41	4101041.D	1.	lcsd 50ppb	qc	20 Oct 2016 21:17
	42	4201042.D	1.	mb	qc	20 Oct 2016 21:37
	43	4301043.D	1.	mb	qc	20 Oct 2016 21:56
	44	4401044.D	1.	16-21552	a	20 Oct 2016 22:15
	45	4501045.D	1.	16-21553	a	20 Oct 2016 22:34
	46	4601046.D	1.	16-21554 dup	a	20 Oct 2016 22:53
	47	4701047.D	1.	16-21554:10 dup	a	20 Oct 2016 23:13
	48	4801048.D	1.	16-21555 tb	a	20 Oct 2016 23:31
	49	4901049.D	1.	16-21556	a	20 Oct 2016 23:50
	50	5001050.D	1.	16-21557	a	21 Oct 2016 00:10
	51	5101051.D	1.	16-21557:10	a	21 Oct 2016 00:29
	52	5201052.D	1.	16-21558	a	21 Oct 2016 00:48
	53	5301053.D	1.	16-21558:10	a	21 Oct 2016 01:07
	54	5401054.D	1.	16-21559	a	21 Oct 2016 01:27
	55	5501055.D	1.	16-21560	a	21 Oct 2016 01:46

Injection Log

Directory: C:\HPCHEM\1\DATA\102016

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
56	56	5601056.D	1.	16-21561:20	a	21 Oct 2016 02:05
57	57	5701057.D	1.	16-21562	a	21 Oct 2016 02:24
58	58	5801058.D	1.	16-21563	a	21 Oct 2016 02:43
59	59	5901059.D	1.	16-21564:10	a	21 Oct 2016 03:03
60	60	6001060.D	1.	16-21565 tb	a	21 Oct 2016 03:22
61	61	6101061.D	1.	16-21633	a	21 Oct 2016 03:41
62	62	6201062.D	1.	16-21634	a	21 Oct 2016 04:00
63	63	6301063.D	1.	16-21635	a	21 Oct 2016 04:19
64	64	6401064.D	1.	16-21636	a	21 Oct 2016 04:39
65	65	6501065.D	1.	16-21638	a	21 Oct 2016 04:58
66	66	6601066.D	1.	16-21639	a	21 Oct 2016 05:17
67	67	6701067.D	1.	16-21640	a	21 Oct 2016 05:36
68	68	6801068.D	1.	16-21641	a	21 Oct 2016 05:55
69	69	6901069.D	1.	16-21642	a	21 Oct 2016 06:15

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8260 Volatiles Statistical Control Limits - Effective 04-22-15

Surrogate	Water Limits % Rec	Soil Limits % Rec.
Dibromofluoromethane (surrogate)	77-125	78-124
1,2-Dichloroethane-d4 (surrogate)	78-130	79-121
Toluene-d8 (surrogate)	68-121	79-126
4-bromofluorobenzene (surrogate)	66-121	79-125

LCS	Water Limits % Rec	Soil Limits % Rec.
Vinyl Chloride	76-121	70-121
1,1-Dichloroethene	79-127	78-122
trans-1,2-Dichloroethene	78-123	79-120
Methyl-tert-butyl-ether	80-122	74-121
1,1-Dichloroethane	79-128	79-128
cis-1,2-Dichloroethene	78-128	78-129
Chloroform	80-123	76-132
1,1,1-Trichloroethane	79-131	78-134
Benzene	78-121	77-130
Trichloroethene	78-126	76-133
Toluene	78-120	75-133
1,1,1,2-Tetracholorethane	79-124	78-129
Chlorobenzene	79-122	77-127
Ethylbenzene	80-121	77-121
o-Xylene	79-121	76-126
N-propylbenzene	79-122	78-130

MS/MSD	Water Limits % Rec.	Soil Limits % Rec.
Vinyl Chloride	72-120	71-133
1,1-Dichloroethene	75-128	75-132
trans-1,2-Dichloroethene	73-131	78-128
Methyl-tert-butyl-ether	76-124	78-128
1,1-Dichloroethane	76-125	76-128
cis-1,2-Dichloroethene	79-124	74-127
Chloroform	75-124	76-128
1,1,1-Trichloroethane	76-130	78-130
Benzene	73-122	74-130
Trichloroethene	74-121	72-130
Toluene	77-122	72-124
1,1,1,2-Tetracholorethane	75-122	79-129
Chlorobenzene	74-121	79-121
Ethylbenzene	70-126	74-123
o-Xylene	71-132	75-129
N-propylbenzene	73-122	76-127

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8260 VOC
Initial Calibration Data

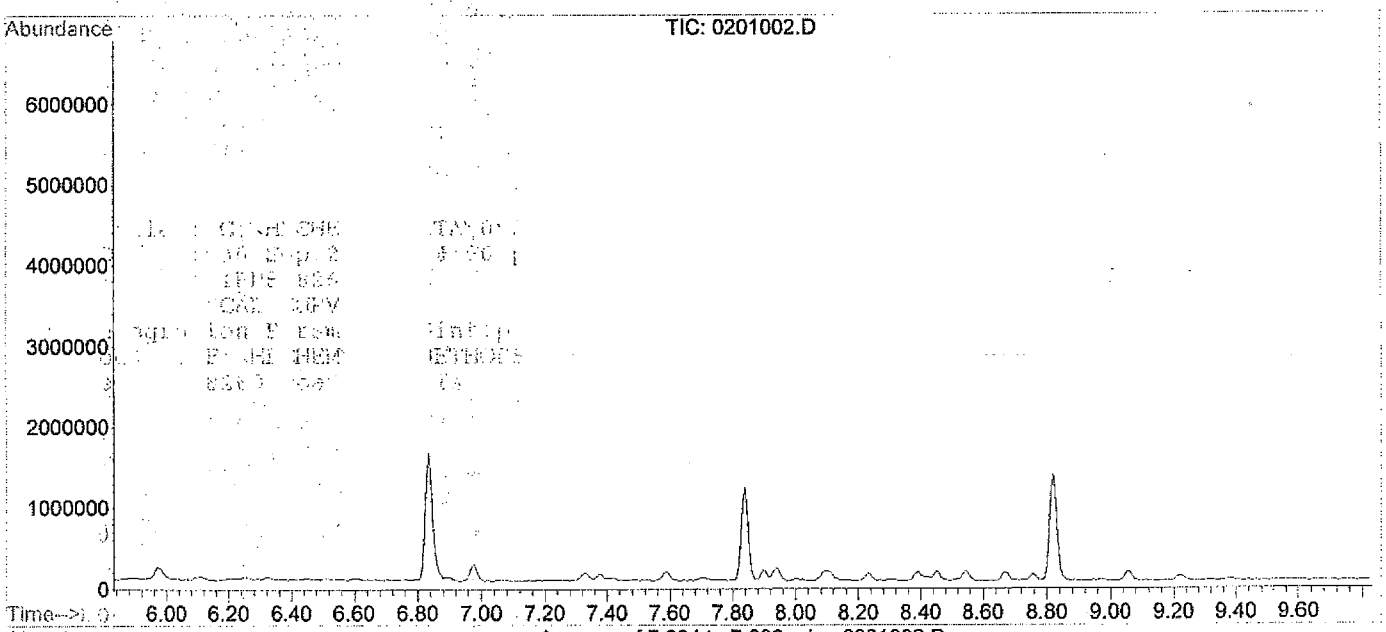
- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

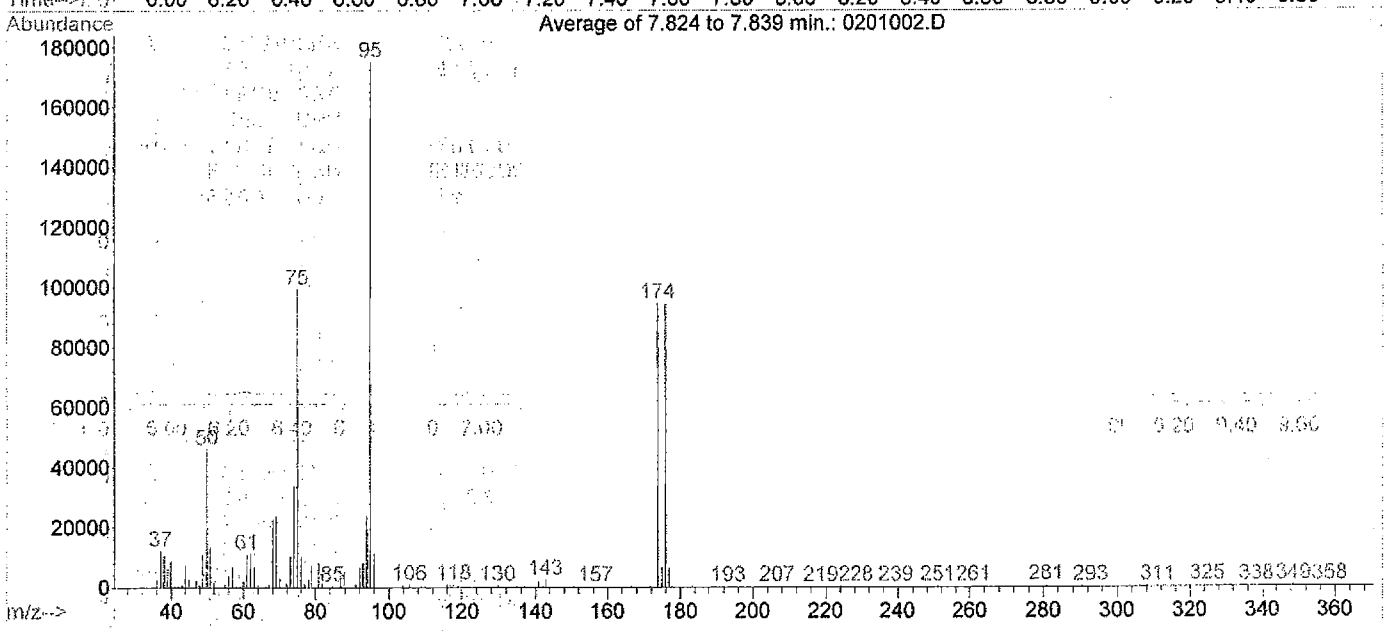
Injection Log

Directory: C:\HPCHEM\1\DATA\093016C

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
	1	0101001.D	1.	BLANK	CAL CURVE	30 Sep 2016 16:38
2	2	0201002.D	1.	1PPB 8260 ICAL	CAL CURVE	30 Sep 2016 16:56
3	3	0301003.D	1.	5PPB 8260 ICAL	CAL CURVE	30 Sep 2016 17:15
4	4	0401004.D	1.	10PPB 8260 ICAL	CAL CURVE	30 Sep 2016 17:33
5	5	0501005.D	1.	20PPB 8260 ICAL	CAL CURVE	30 Sep 2016 17:52
6	6	0601006.D	1.	50PPB 8260 ICAL	CAL CURVE	30 Sep 2016 18:10
7	7	0701007.D	1.	100PPB 8260 ICAL	CAL CURVE	30 Sep 2016 18:29
8	8	0801008.D	1.	B	CAL CURVE	30 Sep 2016 18:47
9	9	0901009.D	1.	200PPB 8260 ICAL	CAL CURVE	30 Sep 2016 19:06
10	10	1001010.D	1.	B	CAL CURVE	30 Sep 2016 19:24
11	11	1101011.D	1.	50PPB 8260 ICAL VER	CAL CURVE	30 Sep 2016 19:43
12	12	1201012.D	1.	MB	CAL CURVE	30 Sep 2016 20:02
13	13	1301013.D	1.	MB	CAL CURVE	30 Sep 2016 20:20
14	14	1401014.D	1.	16-19989:50	A	30 Sep 2016 20:39
15	15	1501015.D	1.	16-19990 TB	A	30 Sep 2016 20:58
16	16	1601016.D	1.	16-20007 TB	A	30 Sep 2016 21:16
17	17	1701017.D	1.	16-20008	A	30 Sep 2016 21:35
18	18	1801018.D	1.	16-20009	A	30 Sep 2016 21:53
19	19	1901019.D	1.	16-20010	A	30 Sep 2016 22:12
20	20	2001020.D	1.	16-20011 TB	A	30 Sep 2016 22:30
21	21	2101021.D	1.	16-20012:200	A	30 Sep 2016 22:49
22	22	2201022.D	1.	16-20013:200	A	30 Sep 2016 23:08
23	23	2301023.D	1.	16-20028 TB	A	30 Sep 2016 23:26
24	24	2401024.D	1.	16-20030	A	30 Sep 2016 23:45
25	25	2501025.D	1.	16-20031	A	1 Oct 2016 00:04
26	26	2601026.D	1.	16-20032:50	A	1 Oct 2016 00:23
27	27	2701027.D	1.	16-20033:50	A	1 Oct 2016 00:42
28	28	2801028.D	1.	16-20034	A	1 Oct 2016 01:00
29	29	2901029.D	1.	16-20035	A	1 Oct 2016 01:19
30	30	3001030.D	1.	16-20036	A	1 Oct 2016 01:37
31	31	3101031.D	1.	16-20037	A	1 Oct 2016 01:56
32	32	3201032.D	1.	16-20037MS	B	1 Oct 2016 02:15
33	33	3301033.D	1.	16-20037MSD	C	1 Oct 2016 02:34
34	34	3401034.D	1.	16-20038	A	1 Oct 2016 02:53
35	35	3501035.D	1.	16-20039:50	A	1 Oct 2016 03:12
36	36	3601036.D	1.	16-20040	A	1 Oct 2016 03:30
37	37	3701037.D	1.	16-20041	A	1 Oct 2016 03:49
38	38	3801038.D	1.	16-19862	A	1 Oct 2016 04:08
39	39	3901039.D	1.	16-19862:20	A	1 Oct 2016 04:26
40	40	4001040.D	1.	16-19863	A	1 Oct 2016 04:45
41	41	4101041.D	1.	16-19864	A	1 Oct 2016 05:04
42	42	4201042.D	1.	16-19865	A	1 Oct 2016 05:23
43	43	4301043.D	1.	16-19866	A	1 Oct 2016 05:41
44	44	4401044.D	1.	BFB/CCV 50PPB	QC	1 Oct 2016 06:00
45	45	4501045.D	1.	LCS 50PPB	QC	1 Oct 2016 06:19
46	46	4601046.D	1.	LCSD 50PPB	QC	1 Oct 2016 06:38
47	47	4701047.D	1.	MB	QC	1 Oct 2016 06:57
48	48	4801048.D	1.	MB	QC	1 Oct 2016 07:15
49	49	4901049.D	1.	16-19867	A	1 Oct 2016 07:34
50	50	5001050.D	1.	16-19868	A	1 Oct 2016 07:53
51	51	5101051.D	1.	16-19869	A	1 Oct 2016 08:11
52	52	5201052.D	1.	16-19870	A	1 Oct 2016 08:30
53	53	5301001.D	1.	16-20012 RR ST	A	1 Oct 2016 09:04
54	54	5401002.D	1.	16-20013 RR ST	A	1 Oct 2016 09:23
		5501003.D	1.			

Data File : C:\HPCHEM\1\DATA\093016C\0201002.D Vial: 2
Acq On : 30 Sep 2016 4:56 pm Operator: GJD
Sample : 1PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis





Spectrum Information: Average of 7.824 to 7.839 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.3	46107	PASS
75	95	30	60	56.7	99405	PASS
95	95	100	100	100.0	175205	PASS
96	95	5	9	6.4	11284	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	54.0	94563	PASS
175	174	5	9	7.2	6801	PASS
176	174	95	101	99.7	94325	PASS
177	176	5	9	6.7	6365	PASS

Response Factor Report GC/MS #2

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration

Calibration Files
5 =0301003.D 20 =0501005.D 100 =0701007.D
1 =0201002.D 200 =0901009.D 10 =0401004.D

		Compound	5	20	100	1	200	10	Avg	%RSD
1)	I	Fluorobenzene (IS)	----------	----------	ISTD	----------	----------	----------		
2)	T	Dichlorodifluoromet	1.411	1.522	1.425		1.464	1.505	1.452	3.75
3)	T	Chloromethane	0.978	1.079	0.942		0.984	1.119	1.013	6.89
4)	T	Vinyl Chloride	0.917	0.966	0.865	0.856	0.918	0.976	0.907	5.63
5)	T	Bromomethane	0.949	0.842	0.756		0.802	0.844	0.828	8.30
6)	T	Chloroethane	0.581	0.579	0.529		0.532	0.610	0.556	7.13
7)	T	Acrolein	0.815	0.793	0.675		0.733	0.850	0.763	8.76
8)	T	Trichlorofluorometh	1.716	1.850	1.625		1.695	1.849	1.706	7.82
9)	T	Acetone	0.099	0.092	0.084		0.079	0.095	0.089	8.63
10)	T	1,1-Dichloroethene	1.404	1.566	1.304		1.342	1.463	1.408	6.72
11)	T	Acrylonitrile	1.482	1.576	1.328		1.510	1.654	1.491	7.90
12)	T	Iodomethane	1.167	1.205	1.133		1.216	1.218	1.181	3.15
13)	T	Methylene Chloride	0.814	0.765	0.702		0.742	0.822	0.753	7.95
14)	T	Carbon Disulfide	2.767	2.708	2.286		2.364	2.721	2.534	8.64
15)	T	trans-1,2-Dichloroe	0.714	0.731	0.647		0.670	0.740	0.698	5.22
16)	T	Methyl-tert-butyl-e	1.145	1.106	0.986		1.039	1.121	1.076	5.50
17)	T	1,1-Dichloroethane	1.554	1.546	1.319		1.335	1.614	1.462	8.56
18)	T	Vinyl Acetate	1.159	1.002	0.904		0.965	1.079	1.016	8.83
19)	T	N-Hexane	1.438	1.476	1.262		1.317	1.546	1.395	7.80
20)		n-Butanol	0.502	0.491	0.446		0.461	0.507	0.482	5.00
21)	T	2-Butanone (MEK)	0.127	0.132	0.118		0.122	0.125	0.126	4.10
22)	T	cis-1,2-Dichloroeth	1.338	1.321	1.138		1.143	1.349	1.256	7.67
23)	T	Bromochloromethane	0.285	0.239	0.216		0.213	0.265	0.244	11.42
24)	T	Chloroform	1.645	1.535	1.358		1.534	1.642	1.524	7.49
25)	T	2,2-Dichloropropane	1.611	1.651	1.418		1.467	1.706	1.556	7.42
26)	S	Dibromofluoromethan	0.311	0.295	0.267		0.280	0.287	0.286	5.42
27)	S	1,2-Dichloroethane-	0.347	0.334	0.305		0.322	0.321	0.323	4.88
28)	T	1,2-Dichloroethane	0.990	0.978	0.875		0.915	1.021	0.952	5.67
29)	T	1,1,1-Trichloroetha	1.471	1.451	1.304		1.331	1.503	1.399	6.07
30)	T	1,1-Dichloropropene	1.249	1.288	1.137		1.141	1.330	1.218	6.72
31)	T	Carbon Tetrachlorid	1.475	1.354	1.186		1.190	1.399	1.305	9.27
32)	T	Benzene	3.004	2.903	2.580		2.644	3.102	2.829	7.32
33)	T	Dibromomethane	0.390	0.412	0.369		0.372	0.421	0.391	5.54
34)	T	1,2-Dichloropropane	0.799	0.765	0.666		0.673	0.866	0.746	10.47
35)	T	Trichloroethene	0.825	0.851	0.729		0.734	0.863	0.795	7.45
36)	T	Bromodichloromethan	1.187	1.086	0.941		0.979	1.108	1.053	8.61
37)	T	2-Chloroethyl-vinyl	0.200	0.191	0.166		0.168	0.216	0.187	10.47
38)	T	cis-1,3-Dichloropro	1.153	1.156	1.051		1.081	1.233	1.133	5.63
39)	T	4-Methyl-2-Pentanon	0.330	0.334	0.295		0.292	0.339	0.318	6.32
40)	T	trans-1,3-Dichlorop	0.945	0.934	0.772		0.776	0.937	0.865	9.63
41)	T	1,1,2-Trichloroetha	0.412	0.367	0.315		0.310	0.368	0.351	11.09
42)	S	Toluene-d8 (SURR)	0.942	0.948	0.962		1.084	0.902	0.966	6.39
43)	T	Toluene	2.694	2.731	2.373		2.399	2.768	2.580	6.73
44)	T	Ethyl Methacrylate	0.261	0.220	0.231		0.247	0.223	0.235	6.68
45)	T	1,3-Dichloropropane	0.880	0.862	0.765		0.783	0.874	0.829	5.98
46)	T	2-Hexanone	0.237	0.238	0.225		0.234	0.233	0.234	2.00
47)	I	Chlorobenzene-d5 (IS)	----------	----------	ISTD	----------	----------	----------		
48)	T	Dibromochloromethan	0.898	0.866	0.815		0.793	0.839	0.841	4.43
49)	T	1,2-Dibromoethane (	0.643	0.635	0.589		0.578	0.608	0.610	4.13
50)	T	Tetrachloroethene	1.301	1.162	1.002		1.012	1.201	1.118	10.92
51)	T	1,1,1,2-Tetrachloro	0.689	0.827	0.740	0.805	0.731	0.776	0.760	6.17
52)	T	Chlorobenzene	2.420	2.343	2.107		2.115	2.338	2.254	5.85
53)	T	Ethylbenzene	5.126	4.893	4.064		4.211	4.849	4.581	9.39
54)	T	m,p-Xylene	4.043	3.760	3.020		3.152	3.821	3.520	11.68
55)	T	Bromoform	0.412	0.374	0.331		0.341	0.342	0.358	8.43
56)	T	Styrene	2.747	2.626	2.185		2.265	2.430	2.436	8.81
57)	T	1,1,2,2-Tetrachloro	0.745	0.661	0.614	0.742	0.587	0.616	0.656	9.68
58)	T	o-Xylene	1.750	1.684	1.513		1.491	1.720	1.623	6.77
59)	T	trans-1,4-Dichloro-	0.218	0.215	0.197		0.203	0.222	0.213	4.86
60)	T	1,2,3-Trichloroprop	0.597	0.777	0.647		0.645	0.729	0.680	9.54
61)	T	Isopropylbenzene	5.107	5.105	4.395		4.423	5.132	4.801	7.37
62)	S	4-Bromofluorobenzen	0.630	0.587	0.607		0.663	0.552	0.607	6.23
63)	T	Bromobenzene	0.898	0.780	0.728		0.743	0.867	0.788	9.75
64)	T	N-propylbenzene	5.826	5.970	4.998		5.567	6.147	5.617	8.01
65)	T	2-Chlorotoluene	4.124	4.088	3.376		3.606	4.133	3.832	8.47

66)	T	4-Chlorotoluene	0.976	0.977	0.846		0.851	0.926	0.911	6.41
67)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
68)	T	1,3,5-Trimethylbenz	8.949	9.017	7.932		7.664	8.173	8.352	6.52
69)	T	tert-Butylbenzene	8.777	9.606	8.560		8.332	8.372	8.800	5.65
70)	T	1,2,4-Trimethylbenz	9.301	8.911	8.017		7.659	8.124	8.405	6.69
72)	T	1,3-Dichlorobenzene	4.145	4.341	3.849		3.732	3.709	3.966	6.27
73)	T	1,4-Dichlorobenzene	2.743	2.473	2.353		2.345	2.229	2.428	7.22
74)	T	p-Isopropyltoluene	1.001	1.049	0.946		0.921	0.910	0.973	5.70
75)	T	1,2-Dichlorobenzene	3.472	3.696	3.358		3.290	3.143	3.430	6.06
76)	T	N-Butylbenzene	1.147	1.244	1.041		0.939	1.058	1.096	9.69
77)	T	1,2-Dibromo-3-chlor	0.180	0.167	0.177		0.178	0.184	0.176	3.59
78)	T	1,2,4-Trichlorobenz	2.252	2.324	2.144		1.926	1.984	2.128	7.15
79)	T	Naphthalene	3.413	3.820	3.741	3.898	3.474	3.312	3.623	6.14
80)	T	Hexachloro-1,3-buta	1.623	1.704	1.581		1.411	1.516	1.574	6.39
81)	T	1,2,3-Trichlorobenz	1.977	2.101	1.900		1.719	1.900	1.911	6.60
82)		1-methylnaphthalene	1.886	1.649	1.652		1.551	1.515	1.649	7.85
83)		2-methylnaphthalene	2.099	2.111	2.333		2.315	1.570	2.115	13.49

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

093016RC.M Mon Oct 24 18:34:50 2016 VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0201002.D Vial: 2
Acq On : 30 Sep 2016 4:56 pm Operator: GJD
Sample : 1PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 19 14:40 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	914859	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	622906	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	268640	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	296301	56.62 ug/L	0.00
Spiked Amount 50.000	Range	69 - 137	Recovery	= 113.24%	
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	320576	54.20 ug/L	0.00
Spiked Amount 50.000	Range	67 - 144	Recovery	= 108.40%	
42) Toluene-d8 (SURR)	5.65	98	864661	48.92 ug/L	0.00
Spiked Amount 50.000	Range	60 - 128	Recovery	= 97.84%	
62) 4-Bromofluorobenzene (SURR	7.84	95	362807	47.98 ug/L	0.00
Spiked Amount 50.000	Range	62 - 145	Recovery	= 95.96%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.34	85	12075	0.45 ug/L #	89
4) Vinyl Chloride	1.56	62	15519m	0.93 ug/L	
5) Bromomethane	1.83	94	9825	0.65 ug/L #	63
7) Acrolein	2.98	56	18107	1.30 ug/L #	79
8) Trichlorofluoromethane	2.05	101	28608	0.92 ug/L #	90
9) Acetone	2.88	43	32832	20.21 ug/L #	94
10) 1,1-Dichloroethene	2.42	61	30541	1.19 ug/L #	88
11) Acrylonitrile	3.34	53	25814	0.95 ug/L #	95
12) Iodomethane	2.52	142	13971	0.65 ug/L #	95
13) Methylene Chloride	2.83	84	38387	2.79 ug/L #	71
14) Carbon Disulfide	2.44	76	46370	1.00 ug/L #	83
15) trans-1,2-Dichloroethene	2.94	96	14072	1.10 ug/L	89
16) Methyl tert-butyl ether	3.01	73	23828	1.21 ug/L #	82
17) 1,1-Dichloroethane	3.36	63	32534	1.22 ug/L #	82
18) Vinyl Acetate	3.27	43	30191	1.62 ug/L #	100
19) N-Hexane	3.00	57	36014	1.41 ug/L	96
20) n-Butanol	3.52	57	9879	1.12 ug/L #	5
21) 2-Butanone (MEK)	4.10	43	10749	4.67 ug/L #	64
22) cis-1,2-Dichloroethene	3.71	61	25042	1.09 ug/L	92
23) Bromochloromethane	3.85	128	5242	1.17 ug/L #	99
24) Chloroform	3.89	83	30498	1.09 ug/L #	93
25) 2,2-Dichloropropane	3.78	77	32567	1.14 ug/L #	87
28) 1,2-Dichloroethane	4.41	62	18118	1.04 ug/L #	86
29) 1,1,1-Trichloroethane	4.03	97	26595	1.04 ug/L #	85
30) 1,1-Dichloropropene	4.10	75	24833	1.11 ug/L #	86
31) Carbon Tetrachloride	3.99	117	30084	1.26 ug/L	97
32) Benzene	4.28	78	64129	1.24 ug/L #	90
33) Dibromomethane	4.96	93	10007	1.40 ug/L #	84
34) 1,2-Dichloropropane	5.03	63	15143	1.11 ug/L #	91
35) Trichloroethene	4.67	95	16675	1.15 ug/L	94
36) Bromodichloromethane	5.07	83	21957	1.14 ug/L #	87
37) 2-Chloroethyl-vinyl-ether	5.03	63	15143	4.44 ug/L #	81
38) cis-1,3-Dichloropropene	5.52	75	24052	1.16 ug/L #	87
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	13576	2.34 ug/L #	80
40) trans-1,3-Dichloropropene	5.99	75	18964	1.20 ug/L #	93
41) 1,1,2-Trichloroethane	6.11	83	9074	1.41 ug/L	96
43) Toluene	5.68	91	69061	1.46 ug/L #	94
44) Ethyl Methacrylate	5.17	69	7332	1.71 ug/L #	47
45) 1,3-Dichloropropane	6.32	76	17875	1.18 ug/L #	95
46) 2-Hexanone	6.61	43	11749	2.75 ug/L #	73
48) Dibromochloromethane	6.26	129	14808	1.41 ug/L #	80
49) 1,2-Dibromoethane (EDB)	6.45	107	8618	1.13 ug/L #	93
50) Tetrachloroethene	5.97	166	34811	2.50 ug/L	97
51) 1,1,1,2-Tetrachloroethane	6.90	131	11721m	1.24 ug/L	

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0201002.D
Acq On : 30 Sep 2016 4:56 pm
Sample : 1PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 19 14:40 2016

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

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
52)	Chlorobenzene	6.85	112	28006	1.00 ug/L	#	64
53)	Ethylbenzene	6.86	91	67057	1.17 ug/L	#	87
54)	m,p-Xylene	6.98	91	103640	2.36 ug/L		95
55)	Bromoform	7.40	173	6222	1.40 ug/L	#	66
56)	Styrene	7.37	104	33165	1.09 ug/L	#	88
57)	1,1,2,2-Tetrachloroethane	8.01	83	9709	1.19 ug/L	#	89
58)	o-Xylene	7.33	106	22658	1.12 ug/L	#	86
59)	trans-1,4-Dichloro-2-buten	8.04	53	1211	0.46 ug/L		93
60)	1,2,3-Trichloropropane	8.12	75	13673	1.61 ug/L	#	20
61)	Isopropylbenzene	7.58	105	61508	1.03 ug/L	#	90
63)	Bromobenzene	7.94	156	12285	1.25 ug/L		93
64)	N-propylbenzene	7.94	91	82504	1.18 ug/L		97
65)	2-Chlorotoluene	8.09	91	51485	1.08 ug/L	#	91
66)	4-Chlorotoluene	8.23	126	14453	1.27 ug/L		89
68)	1,3,5-Trimethylbenzene	8.11	105	49907	1.11 ug/L		96
69)	tert-Butylbenzene	8.38	119	49112	1.04 ug/L		98
70)	1,2,4-Trimethylbenzene	8.45	105	52576	1.16 ug/L	#	94
71)	sec-Butylbenzene	8.54	105	73752	1.12 ug/L	#	89
72)	1,3-Dichlorobenzene	8.76	146	22500	1.06 ug/L		95
73)	1,4-Dichlorobenzene	8.76	148	14613	1.12 ug/L		95
74)	p-Isopropyltoluene	8.67	119	54282	1.04 ug/L		94
75)	1,2-Dichlorobenzene	9.22	146	20032	1.09 ug/L		97
76)	N-Butylbenzene	9.05	91	62055	1.05 ug/L		97
77)	1,2-Dibromo-3-chloropropan	9.85	155	471	0.50 ug/L		86
78)	1,2,4-Trichlorobenzene	10.61	180	12089	1.06 ug/L	#	90
79)	Naphthalene	10.93	128	21024m	1.08 ug/L		
80)	Hexachloro-1,3-butadiene	10.58	225	10906	1.29 ug/L	#	94
81)	1,2,3-Trichlorobenzene	11.11	180	10841	1.06 ug/L		96
83)	2-methylnaphthalene	11.98	142	7457	0.66 ug/L		98

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

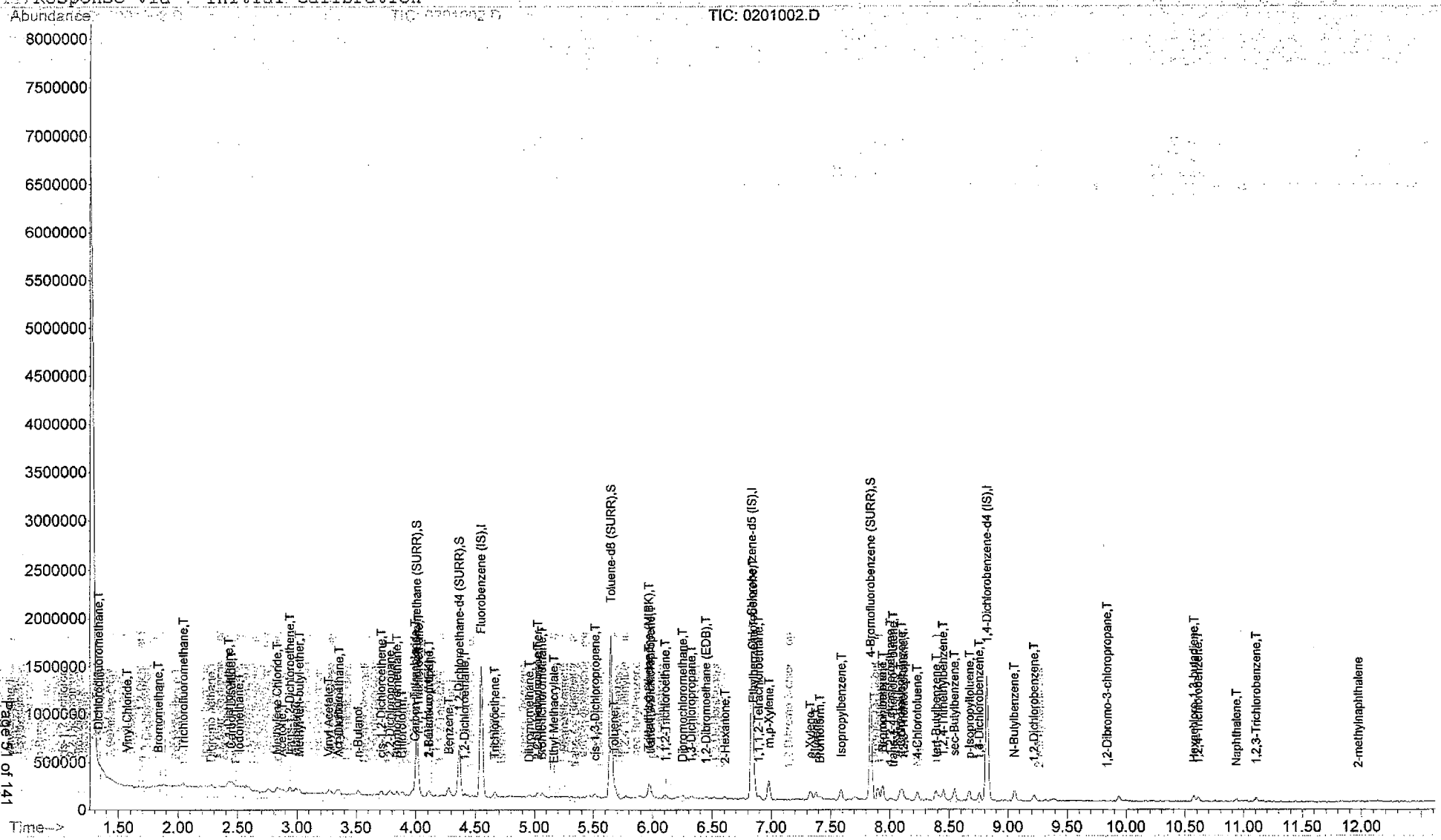
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093016C\0201002.D
Acq On : 30 Sep 2016 4:56 pm
Sample : 1PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 19 14:40 2016

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

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0301003.D
Acq On : 30 Sep 2016 5:15 pm
Sample : 5PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:36 2016

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

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Tue Sep 06 14:26:41 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	904812	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	592923	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	258646	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	281624	50.97	ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 101.94%						
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	314337	50.09	ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 100.18%						
42) Toluene-d8 (SURR)	5.65	98	852641	51.55	ug/L	0.00
Spiked Amount 50.000 Range 60 - 128 Recovery = 103.10%						
62) 4-Bromofluorobenzene (SURR	7.84	95	373757	52.72	ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 105.44%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.34	85	127703m	3.89	ug/L		
3) Chloromethane	1.51	50	88522m	4.63	ug/L		
4) Vinyl Chloride	1.57	62	82972m	5.00	ug/L		
5) Bromomethane	1.84	94	85900m	5.04	ug/L		
6) Chloroethane	1.93	64	52601m	5.18	ug/L		
7) Acrolein	2.99	56	73739	5.37	ug/L	#	88
8) Trichlorofluoromethane	2.04	101	155294m	4.15	ug/L		
9) Acetone	2.87	43	22304m	14.31	ug/L		
10) 1,1-Dichloroethene	2.42	61	127066	4.42	ug/L		99
11) Acrylonitrile	3.33	53	134117	4.77	ug/L		98
12) Iodomethane	2.53	142	105618m	4.44	ug/L		
13) Methylene Chloride	2.83	84	73666m	5.45	ug/L		
14) Carbon Disulfide	2.43	76	250329m	4.66	ug/L		
15) trans-1,2-Dichloroethene	2.94	96	64620	4.67	ug/L		92
16) Methyl-tert-butyl ether	3.01	73	103646	4.71	ug/L		91
17) 1,1-Dichloroethane	3.36	63	140608	5.05	ug/L		96
18) Vinyl Acetate	3.27	43	104841	5.49	ug/L	#	99
19) N-Hexane	2.99	57	130148	5.14	ug/L		95
20) n-Butanol	3.52	57	45446	5.06	ug/L	#	88
21) 2-Butanone (MEK)	4.10	43	28837m	11.92	ug/L		
22) cis-1,2-Dichloroethene	3.71	61	121109	5.15	ug/L		93
23) Bromochloromethane	3.84	128	25754	5.21	ug/L	#	91
24) Chloroform	3.89	83	148832	4.99	ug/L		98
25) 2,2-Dichloropropane	3.78	77	145794	4.69	ug/L		96
28) 1,2-Dichloroethane	4.41	62	89621	4.67	ug/L	#	92
29) 1,1,1-Trichloroethane	4.03	97	133077	4.55	ug/L		94
30) 1,1-Dichloropropene	4.11	75	113007	4.80	ug/L		97
31) Carbon Tetrachloride	3.98	117	133419	4.80	ug/L		99
32) Benzene	4.27	78	271786	5.24	ug/L		99
33) Dibromomethane	4.96	93	35325	4.63	ug/L		96
34) 1,2-Dichloropropane	5.03	63	72267	5.43	ug/L	#	88
35) Trichloroethene	4.67	95	74690	4.87	ug/L		96
36) Bromodichloromethane	5.07	83	107390	5.13	ug/L	#	96
37) 2-Chloroethyl-vinyl-ether	5.03	63	72267	21.73	ug/L	#	99
38) cis-1,3-Dichloropropene	5.51	75	104282	4.85	ug/L		93
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	74647	12.99	ug/L	#	91
40) trans-1,3-Dichloropropene	5.99	75	85539	5.14	ug/L		96
41) 1,1,2-Trichloroethane	6.11	83	37311	5.82	ug/L		95
43) Toluene	5.68	91	243723	4.57	ug/L		98
44) Ethyl Methacrylate	5.17	69	23578	5.15	ug/L	#	97
45) 1,3-Dichloropropane	6.33	76	79661	5.19	ug/L		98
46) 2-Hexanone	6.60	43	53575	12.72	ug/L		98
48) Dibromochloromethane	6.25	129	53239	4.57	ug/L		97
49) 1,2-Dibromoethane (EDB)	6.44	107	38101	4.70	ug/L	#	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0301003.D Vial: 3
Acq On : 30 Sep 2016 5:15 pm Operator: GJD
Sample : 5PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:36 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Tue Sep 06 14:26:41 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.98	166	77132	4.95 ug/L		95
51) 1,1,1,2-Tetrachloroethane	6.90	131	53836	4.83 ug/L		98
52) Chlorobenzene	6.85	112	143496	4.97 ug/L		90
53) Ethylbenzene	6.86	91	303903	5.29 ug/L		95
54) m,p-Xylene	6.97	91	479451	10.13 ug/L		98
55) Bromoform	7.41	173	24414	4.80 ug/L	#	94
56) Styrene	7.37	104	162897	5.47 ug/L		96
57) 1,1,2,2-Tetrachloroethane	8.01	83	44153	5.65 ug/L		98
58) o-Xylene	7.33	106	103754	5.05 ug/L		97
59) trans-1,4-Dichloro-2-buten	8.15	53	12927	4.67 ug/L		97
60) 1,2,3-Trichloropropane	8.13	75	35390m	3.93 ug/L		
61) Isopropylbenzene	7.58	105	302809	4.98 ug/L		99
63) Bromobenzene	7.93	156	53232	4.92 ug/L		82
64) N-propylbenzene	7.94	91	392432	5.39 ug/L		98
65) 2-Chlorotoluene	8.09	91	244492	4.97 ug/L		100
66) 4-Chlorotoluene	8.23	126	57851	4.70 ug/L		86
68) 1,3,5-Trimethylbenzene	8.10	105	231471	5.04 ug/L	#	95
69) tert-Butylbenzene	8.39	119	227005	4.69 ug/L		94
70) 1,2,4-Trimethylbenzene	8.45	105	240574	5.13 ug/L	#	97
71) sec-Butylbenzene	8.55	105	336851	5.11 ug/L	#	100
72) 1,3-Dichlorobenzene	8.76	146	107205	4.86 ug/L		97
73) 1,4-Dichlorobenzene	8.76	148	70952	5.22 ug/L		97
74) p-Isopropyltoluene	8.67	119	258841	4.84 ug/L		98
75) 1,2-Dichlorobenzene	9.22	146	89795	4.64 ug/L		94
76) N-Butylbenzene	9.05	91	296657	4.83 ug/L		97
77) 1,2-Dibromo-3-chloropropan	9.97	155	4653	4.30 ug/L	#	71
78) 1,2,4-Trichlorobenzene	10.61	180	58236	4.55 ug/L	#	92
79) Naphthalene	10.93	128	88279	4.17 ug/L	#	95
80) Hexachloro-1,3-butadiene	10.58	225	41988	4.38 ug/L		98
81) 1,2,3-Trichlorobenzene	11.11	180	51147	4.55 ug/L		96
82) 1-methylnaphthalene	12.14	142	39334m	4.21 ug/L		
83) 2-methylnaphthalene	11.97	142	54277m	4.19 ug/L		

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

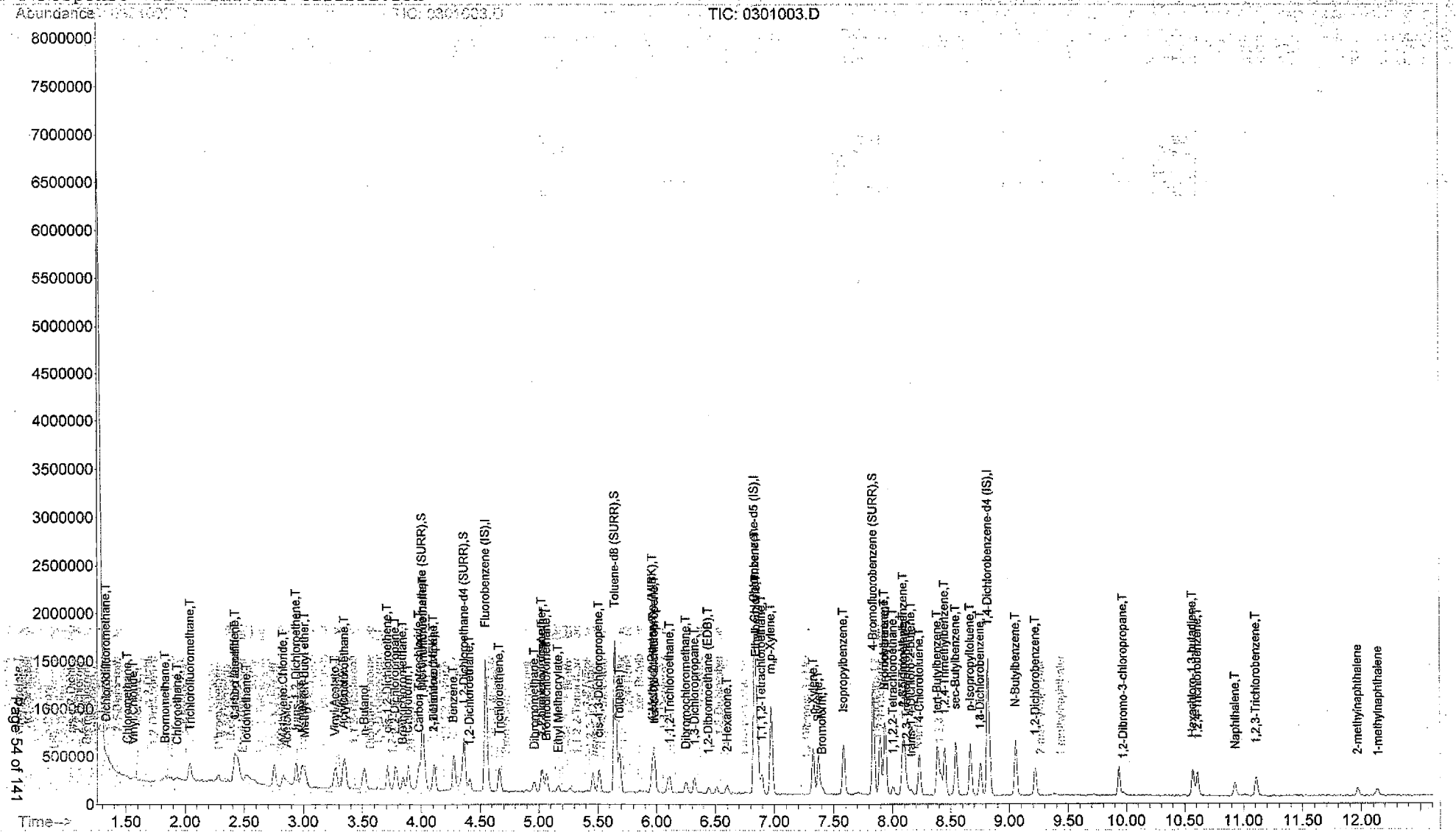
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093016C\0301003.D
Acq On : 30 Sep 2016 5:15 pm
Sample : 5PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:36 2016

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

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0401004.D Vial: 4
Acq On : 30 Sep 2016 5:33 pm Operator: GJD
Sample : 10PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:44 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:24:48 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	971027m	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	686210m	50.00 ug/L	0.01
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	322692m	50.00 ug/L	0.01
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	278235	47.01 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 94.02%		
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	312132	46.56 ug/L	0.01
Spiked Amount 50.000	Range 67 - 144		Recovery = 93.12%		
42) Toluene-d8 (SURR)	5.65	98	875618	49.19 ug/L	0.01
Spiked Amount 50.000	Range 60 - 128		Recovery = 98.38%		
62) 4-Bromofluorobenzene (SURR	7.83	95	378618	45.23 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 90.46%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.33	85	292348m	8.57 ug/L	
3) Chloromethane	1.50	50	217377m	11.08 ug/L	
4) Vinyl Chloride	1.57	62	189639m	10.76 ug/L	
5) Bromomethane	1.83	94	163911m	9.04 ug/L	
6) Chloroethane	1.93	64	118375m	10.72 ug/L	
7) Acrolein	2.99	56	165017	11.38 ug/L	99
8) Trichlorofluoromethane	2.04	101	359000m	9.34 ug/L	
9) Acetone	2.88	43	46212m	26.56 ug/L	
10) 1,1-Dichloroethene	2.42	61	284205	9.47 ug/L	95
11) Acrylonitrile	3.34	53	321277	10.83 ug/L	96
12) Iodomethane	2.52	142	236507m	9.59 ug/L	
13) Methylene Chloride	2.83	84	159628m	11.08 ug/L	
14) Carbon Disulfide	2.43	76	528343m	9.56 ug/L	
15) trans-1,2-Dichloroethene	2.94	96	143777	9.94 ug/L	95
16) Methyl-tert-butyl ether	3.02	73	217704	9.46 ug/L #	81
17) 1,1-Dichloroethane	3.36	63	313365	10.74 ug/L	99
18) Vinyl Acetate	3.27	43	209468	10.36 ug/L #	98
19) N-Hexane	2.99	57	300329	11.14 ug/L	97
20) n-Butanol	3.51	57	98439	10.41 ug/L	95
21) 2-Butanone (MEK)	4.10	43	60726m	22.69 ug/L	
22) cis-1,2-Dichloroethene	3.71	61	261938	10.54 ug/L	95
23) Bromochloromethane	3.85	128	51454	9.85 ug/L #	90
24) Chloroform	3.89	83	318919	10.15 ug/L	97
25) 2,2-Dichloropropane	3.78	77	331342	10.15 ug/L #	95
28) 1,2-Dichloroethane	4.41	62	198251	9.90 ug/L	99
29) 1,1,1-Trichloroethane	4.03	97	291797	9.53 ug/L	97
30) 1,1-Dichloropropene	4.11	75	258213	10.48 ug/L	99
31) Carbon Tetrachloride	3.98	117	271706	9.25 ug/L #	91
32) Benzene	4.27	78	602466	10.93 ug/L	98
33) Dibromomethane	4.96	93	81812	10.33 ug/L	89
34) 1,2-Dichloropropane	5.02	63	168106	11.93 ug/L	88
35) Trichloroethene	4.67	95	167561	10.28 ug/L	96
36) Bromodichloromethane	5.07	83	215096	9.76 ug/L	95
37) 2-Chloroethyl-vinyl-ether	5.02	63	168106	47.72 ug/L #	99
38) cis-1,3-Dichloropropene	5.51	75	239439	10.53 ug/L	99
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	164368	27.13 ug/L #	92
40) trans-1,3-Dichloropropene	5.99	75	182066	10.44 ug/L	99
41) 1,1,2-Trichloroethane	6.11	83	71427	10.39 ug/L	96
43) Toluene	5.69	91	537467	9.96 ug/L	99
44) Ethyl Methacrylate	5.16	69	43284	9.11 ug/L	90
45) 1,3-Dichloropropane	6.32	76	169778	10.48 ug/L #	95
46) 2-Hexanone	6.60	43	112993	24.82 ug/L	96
48) Dibromochloromethane	6.25	129	115078	8.67 ug/L	100
49) 1,2-Dibromoethane (EDB)	6.44	107	83432	9.11 ug/L #	97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0401004.D
Acq On : 30 Sep 2016 5:33 pm
Sample : 10PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:44 2016

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

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:24:48 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	Tetrachloroethene	5.97	166	164845	9.41 ug/L		98
51)	1,1,1,2-Tetrachloroethane	6.90	131	106566	8.32 ug/L		93
52)	Chlorobenzene	6.85	112	320926	9.76 ug/L		92
53)	Ethylbenzene	6.86	91	665452	10.16 ug/L		96
54)	m,p-Xylene	6.98	91	1048709	19.67 ug/L		98
55)	Bromoform	7.40	173	46924	8.17 ug/L	#	94
56)	Styrene	7.38	104	333458	9.65 ug/L		99
57)	1,1,2,2-Tetrachloroethane	8.00	83	84482	9.28 ug/L		96
58)	o-Xylene	7.33	106	236123	10.01 ug/L		99
59)	trans-1,4-Dichloro-2-buten	8.15	53	30434	9.66 ug/L		91
60)	1,2,3-Trichloropropane	8.13	75	122066	11.30 ug/L	#	92
61)	Isopropylbenzene	7.59	105	704293	10.16 ug/L		98
63)	Bromobenzene	7.94	156	118971	9.74 ug/L		95
64)	N-propylbenzene	7.94	91	843596	10.11 ug/L		97
65)	2-Chlorotoluene	8.08	91	567158	10.21 ug/L		98
66)	4-Chlorotoluene	8.23	126	127026	9.17 ug/L		88
68)	1,3,5-Trimethylbenzene	8.10	105	527477	9.41 ug/L		99
69)	tert-Butylbenzene	8.39	119	540344	9.06 ug/L		99
70)	1,2,4-Trimethylbenzene	8.45	105	524318	9.12 ug/L	#	100
71)	sec-Butylbenzene	8.55	105	769663	9.39 ug/L	#	99
72)	1,3-Dichlorobenzene	8.76	146	239381	8.86 ug/L		98
73)	1,4-Dichlorobenzene	8.83	148	143844m	8.54 ug/L		
74)	p-Isopropyltoluene	8.67	119	587487	8.92 ug/L		97
75)	1,2-Dichlorobenzene	9.22	146	202858	8.56 ug/L		99
76)	N-Butylbenzene	9.05	91	682785	9.01 ug/L		99
77)	1,2-Dibromo-3-chloropropan	9.97	155	11881m	9.32 ug/L		
78)	1,2,4-Trichlorobenzene	10.61	180	128033	8.37 ug/L		99
79)	Naphthalene	10.93	128	213776m	8.36 ug/L		
80)	Hexachloro-1,3-butadiene	10.58	225	97836	8.42 ug/L		99
81)	1,2,3-Trichlorobenzene	11.11	180	122625m	9.07 ug/L		
82)	1-methylnaphthalene	12.13	142	75246	6.84 ug/L		100
83)	2-methylnaphthalene	11.97	142	101320	6.85 ug/L		94

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

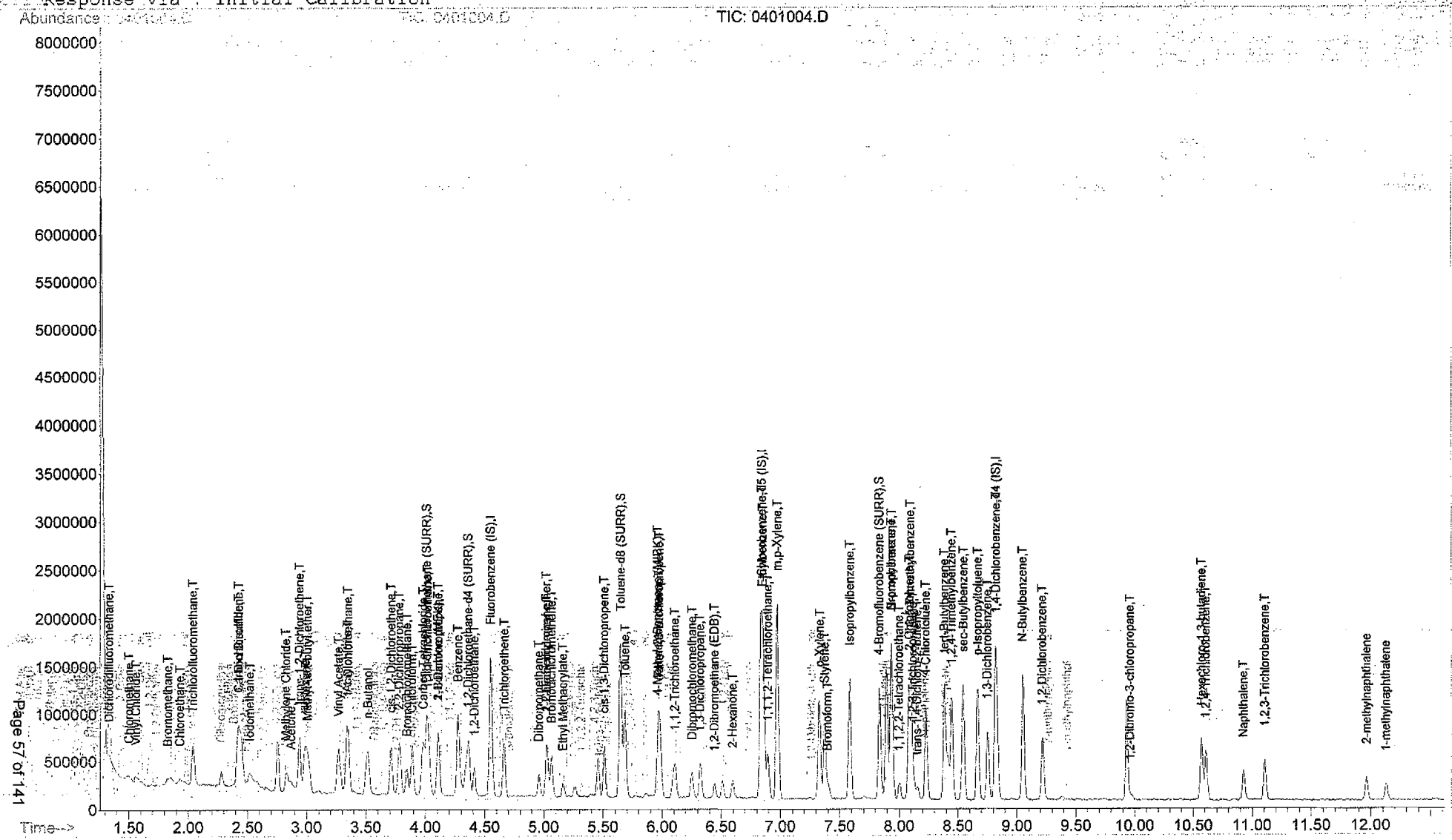
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093016C\0401004.D
Acq On : 30 Sep 2016 5:33 pm
Sample : 10PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:44 2016

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

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0501005.D
Acq On : 30 Sep 2016 5:52 pm
Sample : 20PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:45 2016

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

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:25:57 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.56	96	920897	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	633635	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	259126	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	271760	49.21 ug/L	0.00
Spiked Amount 50.000	Range	69 - 137		Recovery =	98.42%
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	307902	49.19 ug/L	0.00
Spiked Amount 50.000	Range	67 - 144		Recovery =	98.38%
42) Toluene-d8 (SURR)	5.65	98	873006	51.04 ug/L	0.00
Spiked Amount 50.000	Range	60 - 128		Recovery =	102.08%
62) 4-Bromofluorobenzene (SURR	7.84	95	371819	47.62 ug/L	0.00
Spiked Amount 50.000	Range	62 - 145		Recovery =	95.24%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.33	85	560688m	17.74 ug/L		
3) Chloromethane	1.51	50	397539m	20.92 ug/L		
4) Vinyl Chloride	1.56	62	355751m	21.21 ug/L		
5) Bromomethane	1.83	94	310207m	18.20 ug/L		
6) Chloroethane	1.94	64	213205m	20.01 ug/L		
7) Acrolein	2.99	56	292280	20.86 ug/L	#	98
8) Trichlorofluoromethane	2.04	101	681453m	19.03 ug/L		
9) Acetone	2.87	43	84676m	50.09 ug/L		
10) 1,1-Dichloroethene	2.42	61	576789m	20.49 ug/L		
11) Acrylonitrile	3.34	53	580550	20.31 ug/L		98
12) Iodomethane	2.52	142	443959m	19.09 ug/L		
13) Methylene Chloride	2.83	84	281893m	20.18 ug/L		
14) Carbon Disulfide	2.43	76	997537m	19.37 ug/L		
15) trans-1,2-Dichloroethene	2.94	96	269405	19.60 ug/L		92
16) Methyl-tert-butyl ether	3.02	73	407283	18.78 ug/L		86
17) 1,1-Dichloroethane	3.35	63	569422	20.37 ug/L		100
18) Vinyl Acetate	3.27	43	369182	18.95 ug/L	#	98
19) N-Hexane	2.99	57	543550	20.85 ug/L		98
20) n-Butanol	3.51	57	180982	19.73 ug/L		96
21) 2-Butanone (MEK)	4.10	43	121984	48.08 ug/L		94
22) cis-1,2-Dichloroethene	3.71	61	486459	20.34 ug/L		96
23) Bromochloromethane	3.84	128	88020	17.63 ug/L	#	93
24) Chloroform	3.89	83	565525	18.82 ug/L		97
25) 2,2-Dichloropropane	3.78	77	608184	19.52 ug/L		97
28) 1,2-Dichloroethane	4.41	62	360106	18.87 ug/L		95
29) 1,1,1-Trichloroethane	4.03	97	534541	18.59 ug/L		97
30) 1,1-Dichloropropene	4.11	75	474329	20.11 ug/L		97
31) Carbon Tetrachloride	3.98	117	498733	18.09 ug/L	#	97
32) Benzene	4.28	78	1069516	19.98 ug/L		98
33) Dibromomethane	4.96	93	151832	19.91 ug/L		89
34) 1,2-Dichloropropane	5.03	63	281909	20.31 ug/L		91
35) Trichloroethene	4.66	95	313378	20.21 ug/L		96
36) Bromodichloromethane	5.07	83	400120	19.20 ug/L		99
37) 2-Chloroethyl-vinyl-ether	5.03	63	281909	81.25 ug/L	#	100
38) cis-1,3-Dichloropropene	5.52	75	425730	19.46 ug/L		96
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	307348	52.72 ug/L		98
40) trans-1,3-Dichloropropene	5.99	75	344158	20.61 ug/L		96
41) 1,1,2-Trichloroethane	6.11	83	135089	20.47 ug/L		95
43) Toluene	5.68	91	1006061	19.90 ug/L		98
44) Ethyl Methacrylate	5.17	69	81021	17.90 ug/L		96
45) 1,3-Dichloropropane	6.32	76	317383	20.35 ug/L		95
46) 2-Hexanone	6.59	43	219364	50.75 ug/L		99
48) Dibromochloromethane	6.25	129	219535	18.16 ug/L		98
49) 1,2-Dibromoethane (EDB)	6.44	107	161069	19.14 ug/L	#	97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0501005.D Vial: 5
Acq On : 30 Sep 2016 5:52 pm Operator: GJD
Sample : 20PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:45 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:25:57 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

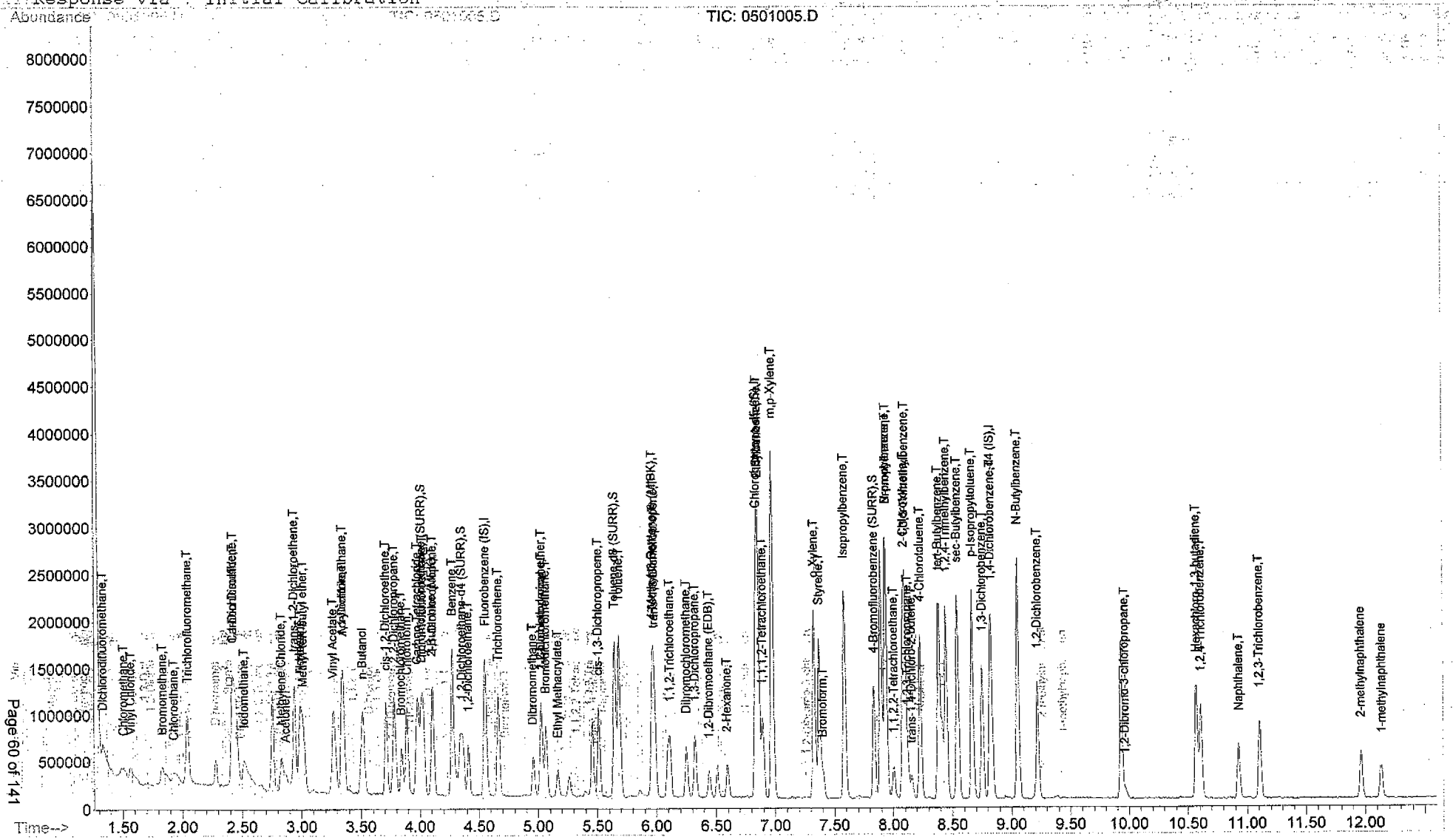
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.97	166	294527	18.35 ug/L		99
51) 1,1,1,2-Tetrachloroethane	6.89	131	209539	17.96 ug/L		99
52) Chlorobenzene	6.85	112	593917	19.25 ug/L		95
53) Ethylbenzene	6.86	91	1240110	20.28 ug/L		98
54) m,p-Xylene	6.97	91	1905810	38.71 ug/L		98
55) Bromoform	7.41	173	94843	18.14 ug/L		96
56) Styrene	7.37	104	665493	20.65 ug/L		95
57) 1,1,2,2-Tetrachloroethane	8.01	83	167577	19.77 ug/L		97
58) o-Xylene	7.33	106	426741	19.34 ug/L		97
59) trans-1,4-Dichloro-2-buten	8.16	53	54582	18.58 ug/L		88
60) 1,2,3-Trichloropropane	8.13	75	196851m	18.89 ug/L		
61) Isopropylbenzene	7.58	105	1293836	20.00 ug/L		99
63) Bromobenzene	7.93	156	197617	17.43 ug/L		85
64) N-propylbenzene	7.94	91	1513092	19.56 ug/L		99
65) 2-Chlorotoluene	8.09	91	1036106	19.94 ug/L		98
66) 4-Chlorotoluene	8.23	126	247714	19.45 ug/L		98
68) 1,3,5-Trimethylbenzene	8.11	105	934661	20.37 ug/L		99
69) tert-Butylbenzene	8.39	119	995625	20.44 ug/L		99
70) 1,2,4-Trimethylbenzene	8.45	105	923628	19.72 ug/L	#	99
71) sec-Butylbenzene	8.54	105	1362660	20.28 ug/L	#	100
72) 1,3-Dichlorobenzene	8.76	146	449914	20.44 ug/L		99
73) 1,4-Dichlorobenzene	8.84	148	256367	19.06 ug/L		97
74) p-Isopropyltoluene	8.67	119	1087385	20.30 ug/L		98
75) 1,2-Dichlorobenzene	9.22	146	383129	20.00 ug/L		96
76) N-Butylbenzene	9.05	91	1289664	20.91 ug/L		98
77) 1,2-Dibromo-3-chloropropan	9.97	155	17267	16.83 ug/L		94
78) 1,2,4-Trichlorobenzene	10.61	180	240915	19.68 ug/L		98
79) Naphthalene	10.93	128	395976	19.42 ug/L		99
80) Hexachloro-1,3-butadiene	10.58	225	176636	19.04 ug/L		98
81) 1,2,3-Trichlorobenzene	11.11	180	217780	20.28 ug/L		96
82) 1-methylnaphthalene	12.14	142	170903	19.96 ug/L		90
83) 2-methylnaphthalene	11.97	142	218809	18.86 ug/L		97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093016C\0501005.D Vial: 5
Acq On : 30 Sep 2016 5:52 pm Operator: GJD
Sample : 20PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:45 2016 Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0601006.D Vial: 6
Acq On : 30 Sep 2016 6:10 pm Operator: GJD
Sample : 50PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 23:12 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:26:46 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	896096	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	608838	50.00 ug/L	0.01
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	241926	50.00 ug/L	0.01
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	247333	46.41 ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 92.82%					
27) 1,2-Dichloroethane-d4 (SUR	4.36	65	277674	45.72 ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 91.44%					
42) Toluene-d8 (SURR)	5.65	98	858266	51.10 ug/L	0.01
Spiked Amount 50.000 Range 60 - 128 Recovery = 102.20%					
62) 4-Bromofluorobenzene (SURR	7.83	95	367409	48.89 ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 97.78%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.33	85	1240884m	42.04 ug/L	
3) Chloromethane	1.50	50	872701m	47.18 ug/L	
4) Vinyl Chloride	1.57	62	764940m	46.95 ug/L	
5) Bromomethane	1.83	94	696626m	44.77 ug/L	
6) Chloroethane	1.93	64	453412m	43.41 ug/L	
7) Acrolein	2.99	56	637957	46.74 ug/L	98
8) Trichlorofluoromethane	2.04	101	1497935m	43.39 ug/L	
9) Acetone	2.87	43	187880	115.61 ug/L	95
10) 1,1-Dichloroethene	2.42	61	1225521m	45.25 ug/L	
11) Acrylonitrile	3.34	53	1253044	45.65 ug/L	97
12) Iodomethane	2.52	142	1026504m	46.72 ug/L	
13) Methylene Chloride	2.83	84	602425m	44.37 ug/L	
14) Carbon Disulfide	2.43	76	2115587m	43.14 ug/L	
15) trans-1,2-Dichloroethene	2.94	96	614888	46.74 ug/L	97
16) Methyl-tert-butyl ether	3.02	73	948721	46.04 ug/L	94
17) 1,1-Dichloroethane	3.36	63	1258225	46.61 ug/L	98
18) Vinyl Acetate	3.27	43	885760	47.62 ug/L #	98
19) N-Hexane	2.99	57	1192440	47.15 ug/L	99
20) n-Butanol	3.51	57	432902	49.10 ug/L	97
21) 2-Butanone (MEK)	4.09	43	290892	117.44 ug/L	91
22) cis-1,2-Dichloroethene	3.71	61	1117424	48.26 ug/L	97
23) Bromochloromethane	3.85	128	223194	47.66 ug/L #	96
24) Chloroform	3.89	83	1281625	44.57 ug/L	99
25) 2,2-Dichloropropane	3.78	77	1329860	44.75 ug/L	100
28) 1,2-Dichloroethane	4.41	62	836408	45.81 ug/L	98
29) 1,1,1-Trichloroethane	4.03	97	1197777	44.16 ug/L	98
30) 1,1-Dichloropropene	4.11	75	1045231	45.91 ug/L	99
31) Carbon Tetrachloride	3.98	117	1101751	42.26 ug/L	99
32) Benzene	4.28	78	2456283	47.47 ug/L	98
33) Dibromomethane	4.96	93	339591	46.18 ug/L	97
34) 1,2-Dichloropropane	5.02	63	636578	47.28 ug/L	93
35) Trichloroethene	4.66	95	686564	45.96 ug/L	98
36) Bromodichloromethane	5.07	83	912514	45.85 ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.02	63	636578	189.12 ug/L #	98
38) cis-1,3-Dichloropropene	5.51	75	1008193	47.94 ug/L	96
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	708509	124.77 ug/L	98
40) trans-1,3-Dichloropropene	5.99	75	739535	45.87 ug/L	96
41) 1,1,2-Trichloroethane	6.11	83	299831	46.49 ug/L	98
43) Toluene	5.69	91	2253105	46.62 ug/L	99
44) Ethyl Methacrylate	5.16	69	203999	47.00 ug/L	92
45) 1,3-Dichloropropane	6.32	76	728393	48.08 ug/L	98
46) 2-Hexanone	6.60	43	529474	125.16 ug/L	99
48) Dibromochloromethane	6.25	129	507765	44.69 ug/L	100
49) 1,2-Dibromoethane (EDB)	6.44	107	369554	46.20 ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0601006.D
Acq On : 30 Sep 2016 6:10 pm
Sample : 50PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 3 23:12 2016

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

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:26:46 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.97	166	627489	41.49 ug/L		98
51) 1,1,1,2-Tetrachloroethane	6.90	131	457288	41.31 ug/L		98
52) Chlorobenzene	6.85	112	1337753	45.60 ug/L		99
53) Ethylbenzene	6.86	91	2646351	45.40 ug/L		99
54) m,p-Xylene	6.98	91	4047727	86.88 ug/L		100
55) Bromoform	7.40	173	211885	43.03 ug/L		99
56) Styrene	7.38	104	1438782	46.21 ug/L		97
57) 1,1,2,2-Tetrachloroethane	8.00	83	383423	47.12 ug/L		98
58) o-Xylene	7.33	106	963011	45.72 ug/L		96
59) trans-1,4-Dichloro-2-buten	8.15	53	134844	48.54 ug/L		89
60) 1,2,3-Trichloropropane	8.13	75	418025	42.26 ug/L	#	95
61) Isopropylbenzene	7.59	105	2829018	46.08 ug/L		99
63) Bromobenzene	7.94	156	434469	40.84 ug/L		90
64) N-propylbenzene	7.94	91	3163906	43.05 ug/L		99
65) 2-Chlorotoluene	8.08	91	2232784	45.32 ug/L		99
66) 4-Chlorotoluene	8.23	126	541656	44.95 ug/L		96
68) 1,3,5-Trimethylbenzene	8.10	105	2026569	47.41 ug/L		99
69) tert-Butylbenzene	8.39	119	2214895	48.89 ug/L		99
70) 1,2,4-Trimethylbenzene	8.45	105	2036253	46.90 ug/L	#	99
71) sec-Butylbenzene	8.55	105	3035109	48.44 ug/L	#	99
72) 1,3-Dichlorobenzene	8.76	146	972102	47.21 ug/L		99
73) 1,4-Dichlorobenzene	8.83	148	586121	46.88 ug/L		99
74) p-Isopropyltoluene	8.67	119	2446784	49.33 ug/L		99
75) 1,2-Dichlorobenzene	9.22	146	875947	49.35 ug/L		99
76) N-Butylbenzene	9.05	91	2775599	48.24 ug/L		99
77) 1,2-Dibromo-3-chloropropan	9.97	155	41390	45.04 ug/L		94
78) 1,2,4-Trichlorobenzene	10.61	180	517808	45.71 ug/L		100
79) Naphthalene	10.93	128	895610	47.27 ug/L		98
80) Hexachloro-1,3-butadiene	10.57	225	389155	45.61 ug/L		99
81) 1,2,3-Trichlorobenzene	11.11	180	451649	45.30 ug/L		99
82) 1-methylnaphthalene	12.14	142	397853	50.49 ug/L		99
83) 2-methylnaphthalene	11.97	142	547691	51.13 ug/L		99

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

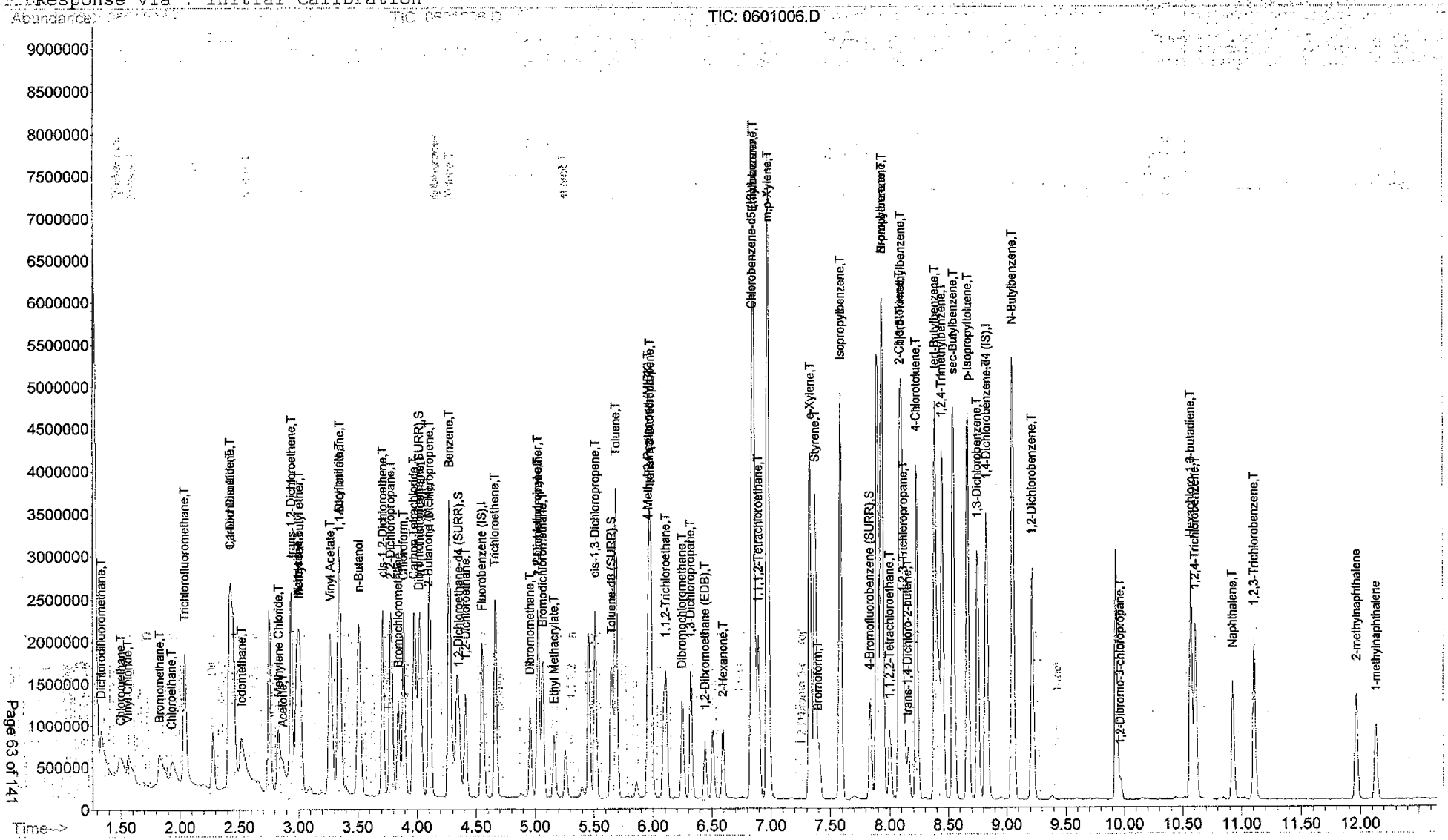
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093016C\0601006.D
Acq On : 30 Sep 2016 6:10 pm
Sample : 50PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 3 23:12 2016

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

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0701007.D
Acq On : 30 Sep 2016 6:29 pm
Sample : 100PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:40 2016

Vial: 7
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:28:37 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	927893	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	633806	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	250740	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	248205	45.83 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 91.66%		
27) 1,2-Dichloroethane-d4 (SUR	4.36	65	282551	45.94 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 91.88%		
42) Toluene-d8 (SURR)	5.65	98	892336	50.92 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 101.84%		
62) 4-Bromofluorobenzene (SURR	7.84	95	384420	48.83 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 97.66%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.34	85	2644936m	90.82 ug/L	
3) Chloromethane	1.50	50	1747478m	91.92 ug/L	
4) Vinyl Chloride	1.56	62	1605301m	96.80 ug/L	
5) Bromomethane	1.83	94	1402391m	90.18 ug/L	
6) Chloroethane	1.93	64	980963m	92.58 ug/L	
7) Acrolein	3.00	56	1253124	89.00 ug/L	100
8) Trichlorofluoromethane	2.04	101	3014918m	88.73 ug/L	
9) Acetone	2.87	43	391832m	235.02 ug/L	
10) 1,1-Dichloroethene	2.42	61	2419508m	88.57 ug/L	
11) Acrylonitrile	3.34	53	2464621	88.29 ug/L	99
12) Iodomethane	2.52	142	2102795m	95.18 ug/L	
13) Methylene Chloride	2.84	84	1302331m	93.21 ug/L	
14) Carbon Disulfide	2.44	76	4242107m	86.15 ug/L	
15) trans-1,2-Dichloroethene	2.94	96	1201078	89.58 ug/L	100
16) Methyl-tert-butyl ether	3.02	73	1829361	87.26 ug/L	98
17) 1,1-Dichloroethane	3.36	63	2448241	88.18 ug/L	100
18) Vinyl Acetate	3.27	43	1678365	87.90 ug/L #	100
19) N-Hexane	3.00	57	2342056	89.93 ug/L	100
20) n-Butanol	3.51	57	826812	91.15 ug/L	99
21) 2-Butanone (MEK)	4.09	43	549225	213.66 ug/L	95
22) cis-1,2-Dichloroethene	3.71	61	2111680	88.76 ug/L	96
23) Bromochloromethane	3.85	128	401508	82.82 ug/L #	91
24) Chloroform	3.89	83	2520121	86.23 ug/L	99
25) 2,2-Dichloropropane	3.78	77	2631912	87.42 ug/L	98
28) 1,2-Dichloroethane	4.42	62	1623212	87.48 ug/L	98
29) 1,1,1-Trichloroethane	4.03	97	2419939	88.60 ug/L	99
30) 1,1-Dichloropropene	4.11	75	2109156	91.08 ug/L	99
31) Carbon Tetrachloride	3.99	117	2200298	85.68 ug/L	98
32) Benzene	4.28	78	4788379	89.74 ug/L	100
33) Dibromomethane	4.96	93	684823	91.23 ug/L	98
34) 1,2-Dichloropropane	5.03	63	1235749	88.66 ug/L	99
35) Trichloroethene	4.66	95	1352543	89.04 ug/L	100
36) Bromodichloromethane	5.07	83	1747173	85.97 ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.03	63	1235749	354.62 ug/L #	99
38) cis-1,3-Dichloropropene	5.51	75	1950867	90.72 ug/L	99
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	1367146	231.17 ug/L	97
40) trans-1,3-Dichloropropene	5.99	75	1432142	86.64 ug/L	99
41) 1,1,2-Trichloroethane	6.11	83	584002	88.19 ug/L	97
43) Toluene	5.69	91	4404201	89.46 ug/L	98
44) Ethyl Methacrylate	5.16	69	428926	96.61 ug/L	91
45) 1,3-Dichloropropane	6.32	76	1418827	90.86 ug/L	99
46) 2-Hexanone	6.59	43	1045083	239.62 ug/L	98
48) Dibromochloromethane	6.25	129	1032510	89.50 ug/L	100
49) 1,2-Dibromoethane (EDB)	6.45	107	746157	90.96 ug/L	97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0701007.D Vial: 7
Acq On : 30 Sep 2016 6:29 pm Operator: GJD
Sample : 100PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:40 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:28:37 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	Tetrachloroethene	5.97	166	1270187	82.70 ug/L		98
51)	1,1,1,2-Tetrachloroethane	6.90	131	938214	83.08 ug/L		98
52)	Chlorobenzene	6.85	112	2671430	88.42 ug/L		97
53)	Ethylbenzene	6.86	91	5151041	85.91 ug/L		98
54)	m,p-Xylene	6.98	91	7657376	160.35 ug/L		97
55)	Bromoform	7.41	173	419259	84.25 ug/L	#	99
56)	Styrene	7.37	104	2769970	85.74 ug/L		100
57)	1,1,2,2-Tetrachloroethane	8.00	83	778287	92.16 ug/L		100
58)	o-Xylene	7.33	106	1918400	88.45 ug/L		99
59)	trans-1,4-Dichloro-2-buten	8.16	53	249420	86.62 ug/L		87
60)	1,2,3-Trichloropropane	8.13	75	819823	80.31 ug/L		98
61)	Isopropylbenzene	7.59	105	5571657	88.40 ug/L		99
63)	Bromobenzene	7.93	156	922585	85.56 ug/L		85
64)	N-propylbenzene	7.94	91	6334944	84.17 ug/L		99
65)	2-Chlorotoluene	8.08	91	4279402	84.75 ug/L		99
66)	4-Chlorotoluene	8.23	126	1072978	87.11 ug/L		97
68)	1,3,5-Trimethylbenzene	8.11	105	3977619	90.28 ug/L		99
69)	tert-Butylbenzene	8.39	119	4292727	91.83 ug/L		99
70)	1,2,4-Trimethylbenzene	8.45	105	4020456	89.87 ug/L	#	99
71)	sec-Butylbenzene	8.54	105	5872123	90.49 ug/L	#	98
72)	1,3-Dichlorobenzene	8.75	146	1930072	91.35 ug/L		99
73)	1,4-Dichlorobenzene	8.83	148	1180085	92.13 ug/L		100
74)	p-Isopropyltoluene	8.67	119	4743268	92.71 ug/L		99
75)	1,2-Dichlorobenzene	9.22	146	1683938	92.39 ug/L		98
76)	N-Butylbenzene	9.05	91	5221166	87.65 ug/L		97
77)	1,2-Dibromo-3-chloropropan	9.97	155	88985	95.70 ug/L		94
78)	1,2,4-Trichlorobenzene	10.61	180	1075346	93.14 ug/L		98
79)	Naphthalene	10.93	128	1876189	97.08 ug/L		99
80)	Hexachloro-1,3-butadiene	10.57	225	792840	92.22 ug/L		100
81)	1,2,3-Trichlorobenzene	11.11	180	952879	94.15 ug/L		99
82)	1-methylnaphthalene	12.13	142	828223	103.47 ug/L		98
83)	2-methylnaphthalene	11.96	142	1169994	108.35 ug/L		98

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

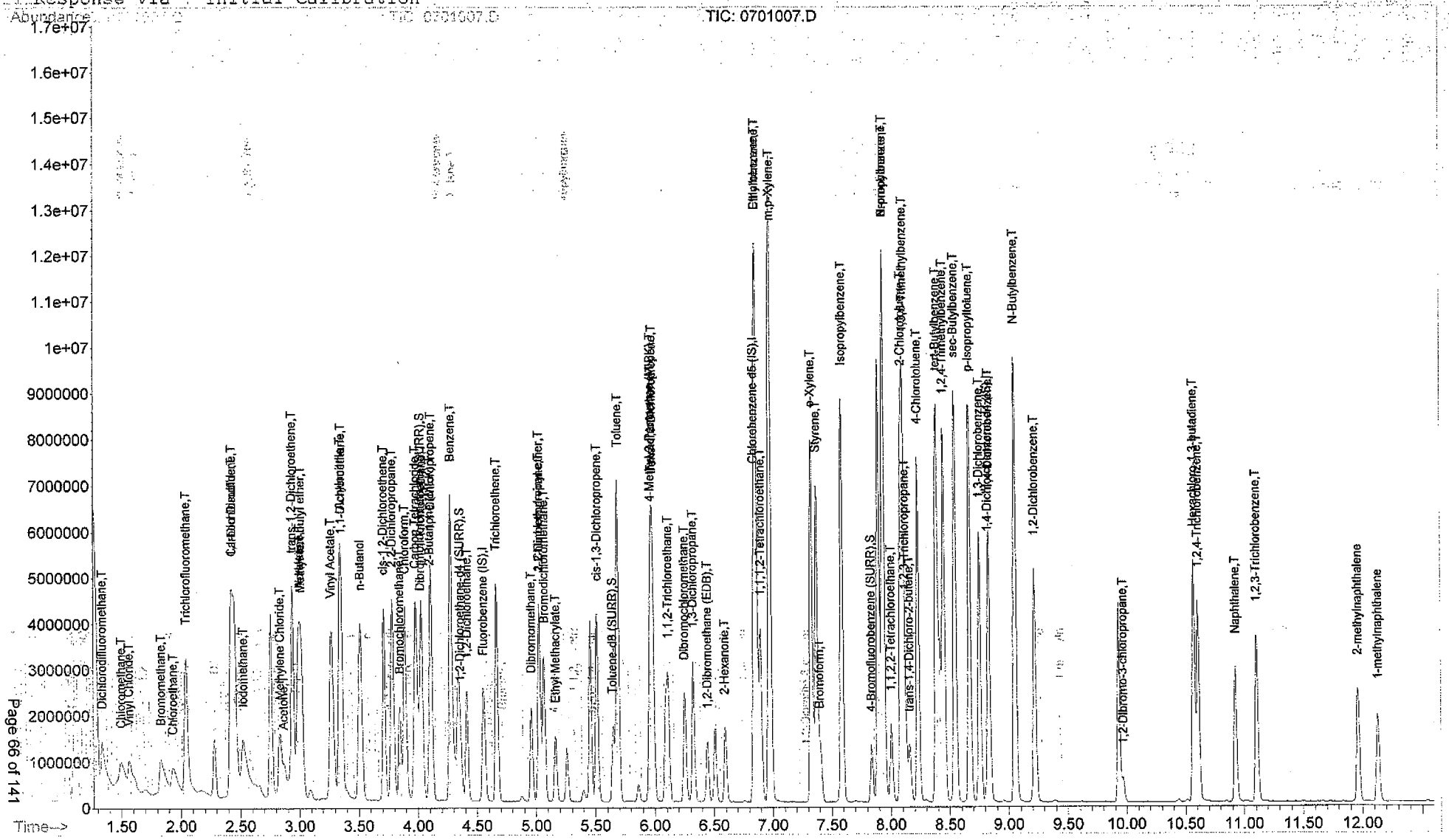
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093016C\0701007.D
Acq On : 30 Sep 2016 6:29 pm
Sample : 100PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:40 2016

Vial: 7
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0901009.D Vial: 9
Acq On : 30 Sep 2016 7:06 pm Operator: GJD
Sample : 200PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:45 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:29:33 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	856951m	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	618686	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	241767	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	239727	49.18	ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 98.36%						
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	275798	50.10	ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 100.20%						
42) Toluene-d8 (SURR)	5.65	98	929104	57.18	ug/L	0.00
Spiked Amount 50.000 Range 60 - 128 Recovery = 114.36%						
62) 4-Bromofluorobenzene (SURR	7.84	95	410104	53.82	ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 107.64%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.34	85	5019888m	193.87	ug/L		
3) Chloromethane	1.50	50	3374207m	193.79	ug/L		
4) Vinyl Chloride	1.56	62	3147199m	207.69	ug/L		
5) Bromomethane	1.83	94	2748265m	198.27	ug/L		
6) Chloroethane	1.93	64	1823103m	188.23	ug/L		
7) Acrolein	3.00	56	2512382m	194.01	ug/L		
8) Trichlorofluoromethane	2.04	101	5810862m	192.17	ug/L		
9) Acetone	2.87	43	673871m	451.72	ug/L		
10) 1,1-Dichloroethene	2.41	61	4601324m	187.52	ug/L		
11) Acrylonitrile	3.34	53	5174766m	204.14	ug/L		
12) Iodomethane	2.52	142	4167649m	200.57	ug/L		
13) Methylene Chloride	2.83	84	2542239m	200.12	ug/L		
14) Carbon Disulfide	2.43	76	8102278m	182.90	ug/L		
15) trans-1,2-Dichloroethene	2.94	96	2297802	189.61	ug/L		96
16) Methyl-tert-butyl ether	3.02	73	3562805	189.41	ug/L		99
17) 1,1-Dichloroethane	3.35	63	4576206	181.19	ug/L		99
18) Vinyl Acetate	3.27	43	3307778m	190.41	ug/L		
19) N-Hexane	3.00	57	4515252	189.03	ug/L		98
20) n-Butanol	3.51	57	1579570	190.67	ug/L		99
21) 2-Butanone (MEK)	4.10	43	1045830	446.50	ug/L		97
22) cis-1,2-Dichloroethene	3.71	61	3917789	181.01	ug/L		95
23) Bromochloromethane	3.85	128	728615	166.37	ug/L	#	84
24) Chloroform	3.89	83	4732753	178.77	ug/L		98
25) 2,2-Dichloropropane	3.78	77	5028574	185.37	ug/L		99
28) 1,2-Dichloroethane	4.41	62	3135665	188.59	ug/L		99
29) 1,1,1-Trichloroethane	4.03	97	4562310	185.91	ug/L		97
30) 1,1-Dichloropropene	4.11	75	3909558	185.58	ug/L		99
31) Carbon Tetrachloride	3.99	117	4078071	177.43	ug/L		96
32) Benzene	4.28	78	9062240	186.06	ug/L		99
33) Dibromomethane	4.96	93	1276353	188.29	ug/L		100
34) 1,2-Dichloropropane	5.03	63	2305582	180.45	ug/L		100
35) Trichloroethene	4.66	95	2516575	183.09	ug/L		97
36) Bromodichloromethane	5.06	83	3355821	183.37	ug/L		98
37) 2-Chloroethyl-vinyl-ether	5.03	63	2305582	721.82	ug/L	#	100
38) cis-1,3-Dichloropropene	5.52	75	3706010	189.62	ug/L		98
39) 4-Methyl-2-Pentanone (MIBK	5.95	43	2505495	462.31	ug/L		96
40) trans-1,3-Dichloropropene	5.99	75	2660559	177.78	ug/L		98
41) 1,1,2-Trichloroethane	6.11	83	1061861	175.52	ug/L		99
43) Toluene	5.69	91	8223955	184.08	ug/L		95
44) Ethyl Methacrylate	5.17	69	844973	209.14	ug/L		91
45) 1,3-Dichloropropane	6.32	76	2683405	188.26	ug/L		99
46) 2-Hexanone	6.59	43	2003642	501.51	ug/L		97
48) Dibromochloromethane	6.25	129	1962252	179.79	ug/L		99
49) 1,2-Dibromoethane (EDB)	6.44	107	1431593	182.91	ug/L		98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\0901009.D Vial: 9
Acq On : 30 Sep 2016 7:06 pm Operator: GJD
Sample : 200PPB 8260 ICAL Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:45 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:29:33 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.97	166	2504605	171.87 ug/L		95
51) 1,1,1,2-Tetrachloroethane	6.90	131	1807947	168.32 ug/L		99
52) Chlorobenzene	6.85	112	5233387	180.74 ug/L		91
53) Ethylbenzene	6.86	91	10419921m	181.24 ug/L		
54) m,p-Xylene	6.98	91	15598981m	342.42 ug/L		
55) Bromoform	7.41	173	843050	180.65 ug/L		97
56) Styrene	7.37	104	5605124m	180.80 ug/L		
57) 1,1,2,2-Tetrachloroethane	8.00	83	1452222	177.40 ug/L		99
58) o-Xylene	7.33	106	3690618	177.11 ug/L		93
59) trans-1,4-Dichloro-2-buten	8.16	53	503250	184.74 ug/L		92
60) 1,2,3-Trichloropropane	8.13	75	1596126	163.08 ug/L		93
61) Isopropylbenzene	7.59	105	10946699m	181.26 ug/L		
63) Bromobenzene	7.93	156	1838999	179.19 ug/L		78
64) N-propylbenzene	7.94	91	13776261m	190.92 ug/L		
65) 2-Chlorotoluene	8.08	91	8924447m	184.82 ug/L		
66) 4-Chlorotoluene	8.23	126	2105193	179.56 ug/L		86
68) 1,3,5-Trimethylbenzene	8.11	105	7412063	175.87 ug/L		96
69) tert-Butylbenzene	8.39	119	8057137	180.52 ug/L		96
70) 1,2,4-Trimethylbenzene	8.46	105	7406855	172.68 ug/L	#	99
71) sec-Butylbenzene	8.55	105	10677346	171.71 ug/L	#	98
72) 1,3-Dichlorobenzene	8.75	146	3609379	179.57 ug/L		98
73) 1,4-Dichlorobenzene	8.83	148	2267631	186.24 ug/L		97
74) p-Isopropyltoluene	8.67	119	8910757	182.59 ug/L		97
75) 1,2-Dichlorobenzene	9.22	146	3181779	183.79 ug/L		98
76) N-Butylbenzene	9.05	91	9076771	158.82 ug/L		95
77) 1,2-Dibromo-3-chloropropan	9.97	155	172357	195.14 ug/L		94
78) 1,2,4-Trichlorobenzene	10.61	180	1862887	169.70 ug/L		99
79) Naphthalene	10.93	128	3359775	182.38 ug/L		98
80) Hexachloro-1,3-butadiene	10.57	225	1364472	168.05 ug/L		99
81) 1,2,3-Trichlorobenzene	11.11	180	1662413	173.72 ug/L		99
82) 1-methylnaphthalene	12.13	142	1499531	197.82 ug/L		99
83) 2-methylnaphthalene	11.96	142	2239180	220.68 ug/L		97

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

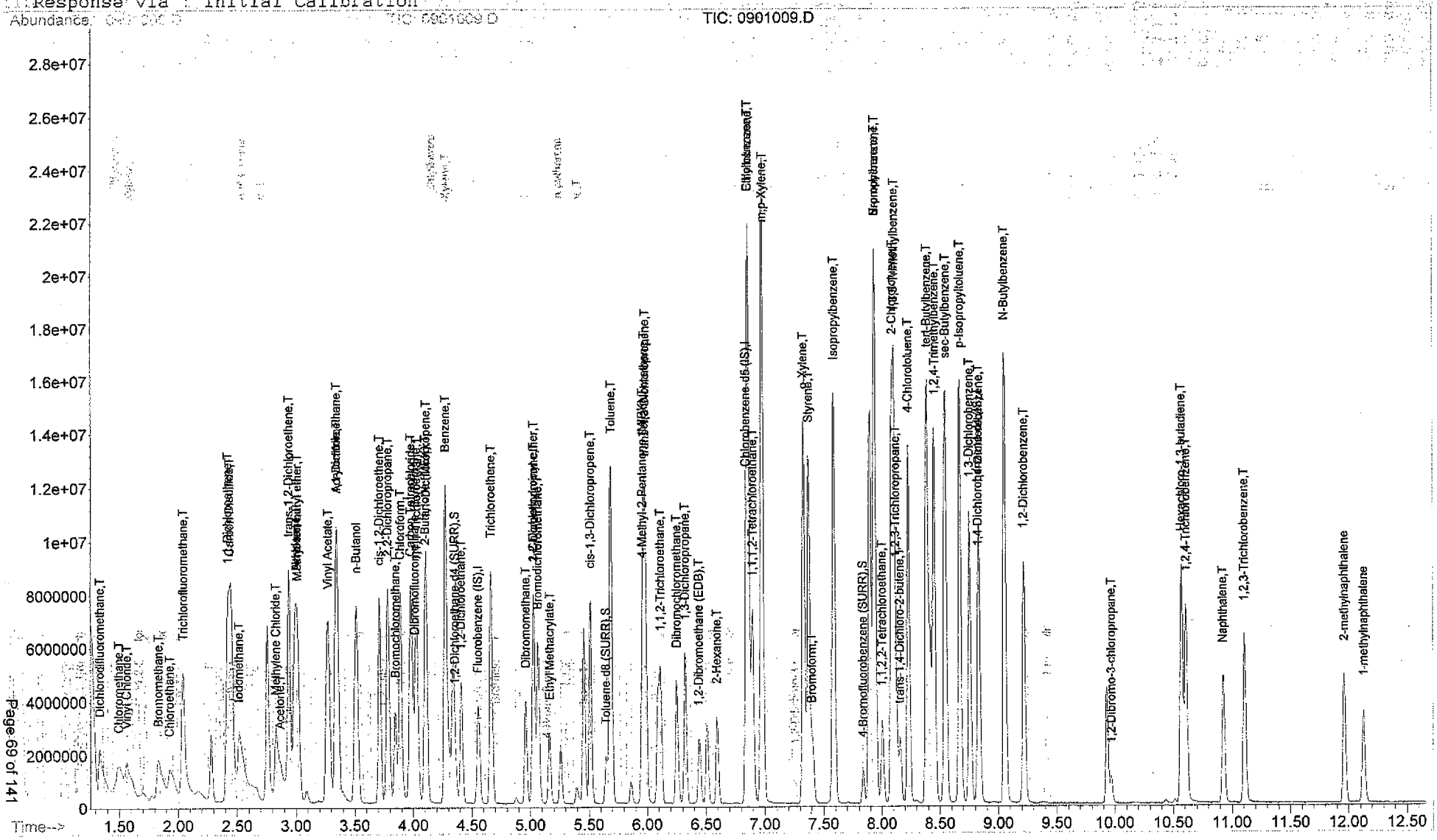
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093016C\0901009.D
Acq On : 30 Sep 2016 7:06 pm
Sample : 200PPB 8260 ICAL
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:45 2016

Vial: 9
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093016C\1101011.D
Acq On : 30 Sep 2016 7:43 pm
Sample : 50PPB 8260 ICAL VER
Misc : CAL CURVE
MS Integration Params: rteint.p

Vial: 11
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
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	109	0.00
2	T	Dichlorodifluoromethane	1.452	1.466	-1.0	116	0.00
3	T	Chloromethane	1.013	1.010	0.3	113	0.01
4	T	Vinyl Chloride	0.907	0.922	-1.7	118	0.00
5	T	Bromomethane	0.828	0.848	-2.4	119	0.00
6	T	Chloroethane	0.556	0.543	2.3	117	0.00
7	T	Acrolein	0.763	0.739	3.1	114	0.00
8	T	Trichlorofluoromethane	1.706	1.749	-2.5	127	0.00
9	T	Acetone	0.089	0.093	-4.5	121	0.00
10	T	1,1-Dichloroethene	1.408	1.444	-2.6	115	0.00
11	T	Acrylonitrile	1.491	1.472	1.3	115	0.00
12	T	Iodomethane	1.181	1.181	0.0	113	0.00
13	T	Methylene Chloride	0.753	0.715	5.0	116	0.00
14	T	Carbon Disulfide	2.534	2.465	2.7	114	0.00
15	T	trans-1,2-Dichloroethene	0.698	0.698	0.0	111	0.00
16	T	Methyl-tert-butyl ether	1.076	1.064	1.1	110	0.00
17	T	1,1-Dichloroethane	1.462	1.433	2.0	112	0.00
18	T	Vinyl Acetate	1.016	0.994	2.2	110	0.00
19	T	N-Hexane	1.395	1.396	-0.1	115	0.00
20		n-Butanol	0.482	0.486	-0.8	110	0.00
21	T	2-Butanone (MEK)	0.126	0.126	0.0	106	0.00
22	T	cis-1,2-Dichloroethene	1.256	1.265	-0.7	111	0.00
23	T	Bromochloromethane	0.244	0.254	-4.1	112	0.00
24	T	Chloroform	1.524	1.459	4.3	112	0.00
25	T	2,2-Dichloropropane	1.556	1.517	2.5	112	0.00
26	S	Dibromofluoromethane (SURR)	0.286	0.262	8.4	104	0.00
27	S	1,2-Dichloroethane-d4 (SURR	0.323	0.301	6.8	106	0.00
28	T	1,2-Dichloroethane	0.952	0.938	1.5	110	0.00
29	T	1,1,1-Trichloroethane	1.399	1.391	0.6	114	0.00
30	T	1,1-Dichloropropene	1.218	1.204	1.1	113	0.00
31	T	Carbon Tetrachloride	1.305	1.273	2.5	113	0.00
32	T	Benzene	2.829	2.770	2.1	111	0.00
33	T	Dibromomethane	0.391	0.384	1.8	111	0.00
34	T	1,2-Dichloropropane	0.746	0.744	0.3	115	0.00
35	T	Trichloroethene	0.795	0.787	1.0	112	0.00
36	T	Bromodichloromethane	1.053	1.020	3.1	110	0.00
37	T	2-Chloroethyl-vinyl-ether	0.187	0.186	0.5	115	0.00
38	T	cis-1,3-Dichloropropene	1.133	1.138	-0.4	111	0.00
39	T	4-Methyl-2-Pentanone (MIBK)	0.318	0.332	-4.4	115	0.00
40	T	trans-1,3-Dichloropropene	0.865	0.833	3.7	110	0.00
41	T	1,1,2-Trichloroethane	0.351	0.348	0.9	114	0.00
42	S	Toluene-d8 (SURR)	0.966	0.964	0.2	110	0.00
43	T	Toluene	2.580	2.577	0.1	112	0.00
44	T	Ethyl Methacrylate	0.235	0.247	-5.1	119	0.00
45	T	1,3-Dichloropropane	0.829	0.830	-0.1	112	0.00
46	T	2-Hexanone	0.234	0.244	-4.3	113	0.00
47	I	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	106	0.00
48	T	Dibromochloromethane	0.841	0.882	-4.9	112	0.00
49	T	1,2-Dibromoethane (EDB)	0.610	0.660	-8.2	116	0.00
50	T	Tetrachloroethene	1.118	1.183	-5.8	122	0.00
51	T	1,1,1,2-Tetrachloroethane	0.760	0.801	-5.4	113	0.00
52	T	Chlorobenzene	2.254	2.354	-4.4	114	0.00
53	T	Ethylbenzene	4.581	4.609	-0.6	113	0.00
54	T	m,p-Xylene	3.520	3.531	-0.3	113	0.00
55	T	Bromoform	0.358	0.373	-4.2	114	0.00
56	T	Styrene	2.436	2.520	-3.4	113	0.00
57	T	1,1,2,2-Tetrachloroethane	0.656	0.674	-2.7	114	0.00
58	T	o-Xylene	1.623	1.694	-4.4	114	0.00
59	T	trans-1,4-Dichloro-2-butene	0.213	0.228	-7.0	109	0.00
60	T	1,2,3-Trichloropropane	0.680	0.729	-7.2	113	0.00
61	T	Isopropylbenzene	4.801	4.972	-3.6	114	0.00

62	S	4-Bromofluorobenzene (SURR)	0.607	0.634	-4.4	112	0.00
63	T	Bromobenzene	0.788	0.773	1.9	115	0.00
64	T	N-propylbenzene	5.617	5.730	-2.0	117	0.00
65	T	2-Chlorotoluene	3.832	3.853	-0.5	112	0.00
66	T	4-Chlorotoluene	0.911	0.964	-5.8	115	0.00
67	I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	107	0.00
68	T	1,3,5-Trimethylbenzene	8.352	8.881	-6.3	114	0.00
69	T	tert-Butylbenzene	8.800	9.450	-7.4	111	0.00
70	T	1,2,4-Trimethylbenzene	8.405	8.980	-6.8	114	0.00
71	T	sec-Butylbenzene	12.232	13.425	-9.8	115	0.00
72	T	1,3-Dichlorobenzene	3.966	4.278	-7.9	114	0.00
73	T	1,4-Dichlorobenzene	2.428	2.515	-3.6	111	0.00
74	T	p-Isopropyltoluene	9.731	10.647	-9.4	113	0.00
75	T	1,2-Dichlorobenzene	3.430	3.732	-8.8	110	0.00
76	T	N-Butylbenzene	10.960	12.035	-9.8	112	0.00
77	T	1,2-Dibromo-3-chloropropane	0.176	0.186	-5.7	116	0.00
78	T	1,2,4-Trichlorobenzene	2.128	2.336	-9.8	117	0.00
79	T	Naphthalene	3.623	4.186	-15.5	121	0.00
80	T	Hexachloro-1,3-butadiene	1.574	1.780	-13.1	119	0.00
81	T	1,2,3-Trichlorobenzene	1.911	2.134	-11.7	123	0.00
82		1-methylnaphthalene	1.649	1.670	-1.3	109	0.00
83		2-methylnaphthalene	2.115	2.252	-6.5	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0601006.D 090016RC.M Mon Oct 24 18:36:15 2016 VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\1101011.D
Acq On : 30 Sep 2016 7:43 pm
Sample : 50PPB 8260 ICAL VER
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:47 2016

Vial: 11
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:46:32 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	980072	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	647223	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	259286	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	256893	45.82 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 91.64%		
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	295269	46.60 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 93.20%		
42) Toluene-d8 (SURR)	5.65	98	944547	49.89 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 99.78%		
62) 4-Bromofluorobenzene (SURR	7.84	95	410213	52.21 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 104.42%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.33	85	1436304m	50.46 ug/L	
3) Chloromethane	1.52	50	989598m	49.85 ug/L	
4) Vinyl Chloride	1.57	62	903254m	50.78 ug/L	
5) Bromomethane	1.83	94	830909m	51.17 ug/L	
6) Chloroethane	1.93	64	532103m	48.82 ug/L	
7) Acrolein	2.99	56	724351	48.43 ug/L	98
8) Trichlorofluoromethane	2.04	101	1714039m	51.25 ug/L	
9) Acetone	2.87	43	228172	131.11 ug/L #	96
10) 1,1-Dichloroethene	2.42	61	1415313m	51.29 ug/L	
11) Acrylonitrile	3.34	53	1442876	49.36 ug/L	99
12) Iodomethane	2.52	142	1157369m	50.00 ug/L	
13) Methylene Chloride	2.83	84	700982m	47.50 ug/L	
14) Carbon Disulfide	2.43	76	2415882m	48.63 ug/L	
15) trans-1,2-Dichloroethene	2.94	96	683970	49.97 ug/L	95
16) Methyl-tert-butyl ether	3.02	73	1042549	49.43 ug/L	95
17) 1,1-Dichloroethane	3.36	63	1404735	49.02 ug/L	100
18) Vinyl Acetate	3.27	43	973812	48.89 ug/L #	100
19) N-Hexane	2.99	57	1367869	50.02 ug/L	99
20) n-Butanol	3.51	57	476034	50.42 ug/L	97
21) 2-Butanone (MEK)	4.09	43	308087	124.86 ug/L	98
22) cis-1,2-Dichloroethene	3.71	61	1239880	50.36 ug/L	99
23) Bromochloromethane	3.84	128	249272	52.03 ug/L #	97
24) Chloroform	3.89	83	1429593	47.85 ug/L	99
25) 2,2-Dichloropropane	3.79	77	1486349	48.72 ug/L	98
28) 1,2-Dichloroethane	4.41	62	919380	49.27 ug/L	98
29) 1,1,1-Trichloroethane	4.03	97	1362818	49.69 ug/L	99
30) 1,1-Dichloropropene	4.11	75	1179794	49.40 ug/L	99
31) Carbon Tetrachloride	3.98	117	1247263	48.74 ug/L	99
32) Benzene	4.27	78	2714759	48.95 ug/L	99
33) Dibromomethane	4.96	93	375913	49.09 ug/L	99
34) 1,2-Dichloropropane	5.03	63	729184	49.84 ug/L	97
35) Trichloroethene	4.67	95	771783	49.55 ug/L	100
36) Bromodichloromethane	5.07	83	999726	48.42 ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.03	63	729184	199.35 ug/L #	99
38) cis-1,3-Dichloropropene	5.51	75	1114905	50.20 ug/L	98
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	813442	130.66 ug/L	99
40) trans-1,3-Dichloropropene	5.99	75	816353	48.14 ug/L	99
41) 1,1,2-Trichloroethane	6.11	83	341453	49.63 ug/L	98
43) Toluene	5.69	91	2525239	49.94 ug/L	99
44) Ethyl Methacrylate	5.16	69	242323	52.65 ug/L	91
45) 1,3-Dichloropropane	6.33	76	813067	50.01 ug/L	98
46) 2-Hexanone	6.60	43	599025	130.67 ug/L	96
48) Dibromochloromethane	6.25	129	570725	52.45 ug/L	99
49) 1,2-Dibromoethane (EDB)	6.44	107	427110	54.09 ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\093016C\1101011.D Vial: 11
Acq On : 30 Sep 2016 7:43 pm Operator: GJD
Sample : 50PPB 8260 ICAL VER Inst : GC/MS #2
Misc : CAL CURVE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:47 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:46:32 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.97	166	765495	52.89 ug/L		97
51) 1,1,1,2-Tetrachloroethane	6.89	131	518643	52.73 ug/L		99
52) Chlorobenzene	6.85	112	1523519	52.23 ug/L		98
53) Ethylbenzene	6.86	91	2982961	50.30 ug/L		99
54) m,p-Xylene	6.97	91	4570273	100.31 ug/L		99
55) Bromoform	7.40	173	241311	52.09 ug/L		99
56) Styrene	7.37	104	1631091	51.73 ug/L		100
57) 1,1,2,2-Tetrachloroethane	8.00	83	436265	51.35 ug/L		97
58) o-Xylene	7.33	106	1096508	52.18 ug/L		98
59) trans-1,4-Dichloro-2-buten	8.16	53	147591	53.58 ug/L		99
60) 1,2,3-Trichloropropane	8.13	75	472013	53.61 ug/L	#	11
61) Isopropylbenzene	7.59	105	3217739	51.77 ug/L		99
63) Bromobenzene	7.94	156	500169	49.03 ug/L		96
64) N-propylbenzene	7.94	91	3708550	51.00 ug/L		99
65) 2-Chlorotoluene	8.09	91	2493592	50.27 ug/L		100
66) 4-Chlorotoluene	8.23	126	623989	52.92 ug/L		94
68) 1,3,5-Trimethylbenzene	8.10	105	2302826	53.17 ug/L		98
69) tert-Butylbenzene	8.39	119	2450254	53.69 ug/L		99
70) 1,2,4-Trimethylbenzene	8.45	105	2328421	53.42 ug/L	#	100
71) sec-Butylbenzene	8.55	105	3481037	54.88 ug/L	#	98
72) 1,3-Dichlorobenzene	8.76	146	1109294	53.94 ug/L		99
73) 1,4-Dichlorobenzene	8.84	148	652217	51.81 ug/L		98
74) p-Isopropyltoluene	8.67	119	2760649	54.71 ug/L		99
75) 1,2-Dichlorobenzene	9.22	146	967661	54.40 ug/L		99
76) N-Butylbenzene	9.06	91	3120424	54.90 ug/L		99
77) 1,2-Dibromo-3-chloropropan	9.97	155	48146	52.69 ug/L		95
78) 1,2,4-Trichlorobenzene	10.61	180	605796	54.88 ug/L		98
79) Naphthalene	10.93	128	1085435	57.77 ug/L		98
80) Hexachloro-1,3-butadiene	10.57	225	461590	56.55 ug/L		100
81) 1,2,3-Trichlorobenzene	11.11	180	553292	55.84 ug/L		98
82) 1-methylnaphthalene	12.13	142	432993m	54.56 ug/L		
83) 2-methylnaphthalene	11.97	142	583984m	53.24 ug/L		

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

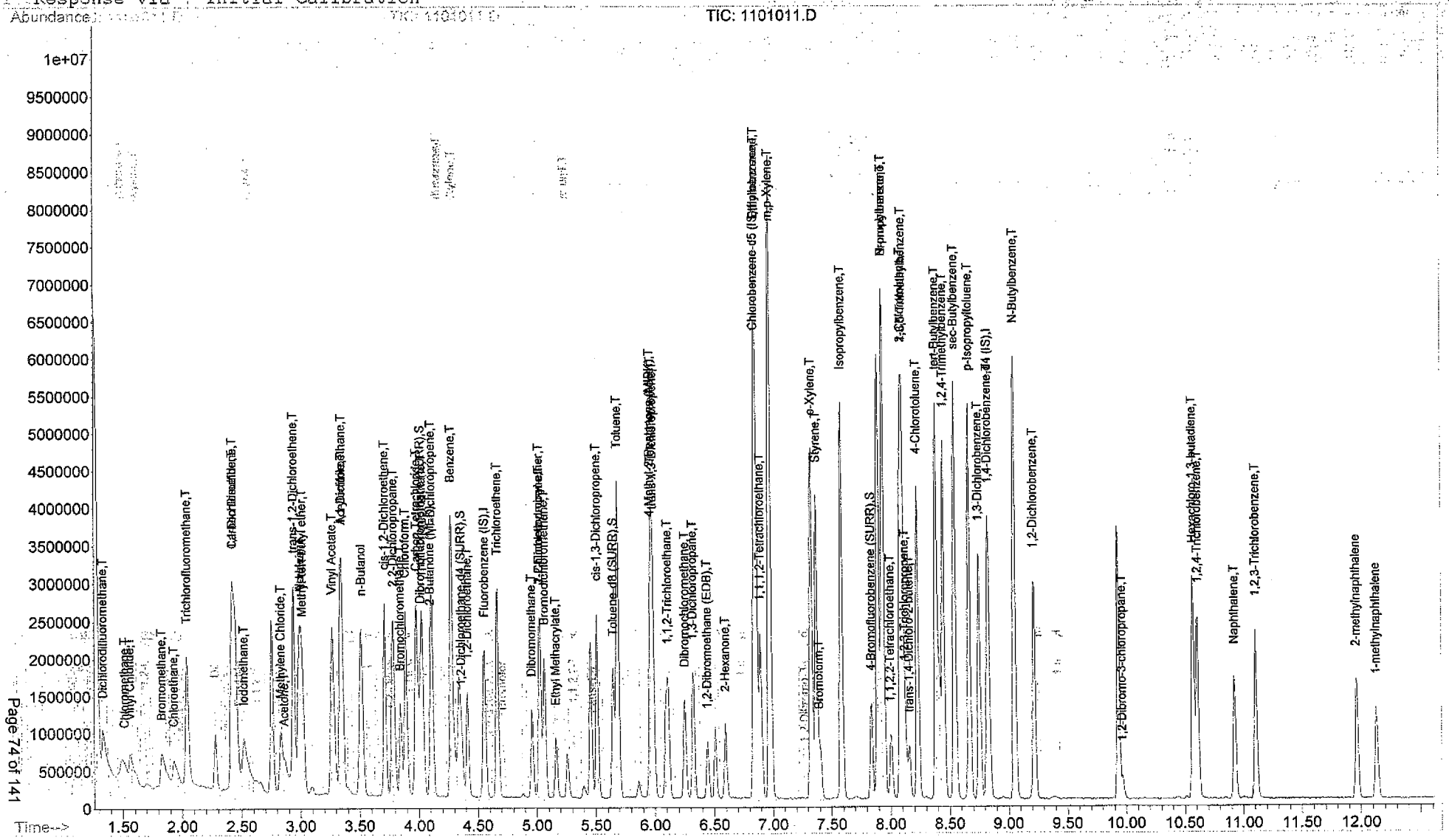
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093016C\1101011.D
Acq On : 30 Sep 2016 7:43 pm
Sample : 50PPB 8260 ICAL VER
Misc : CAL CURVE
MS Integration Params: rteint.p
Quant Time: Oct 1 8:47 2016

Vial: 11
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



ENVISION

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

8260 VOC
Continuing Calibration Data

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

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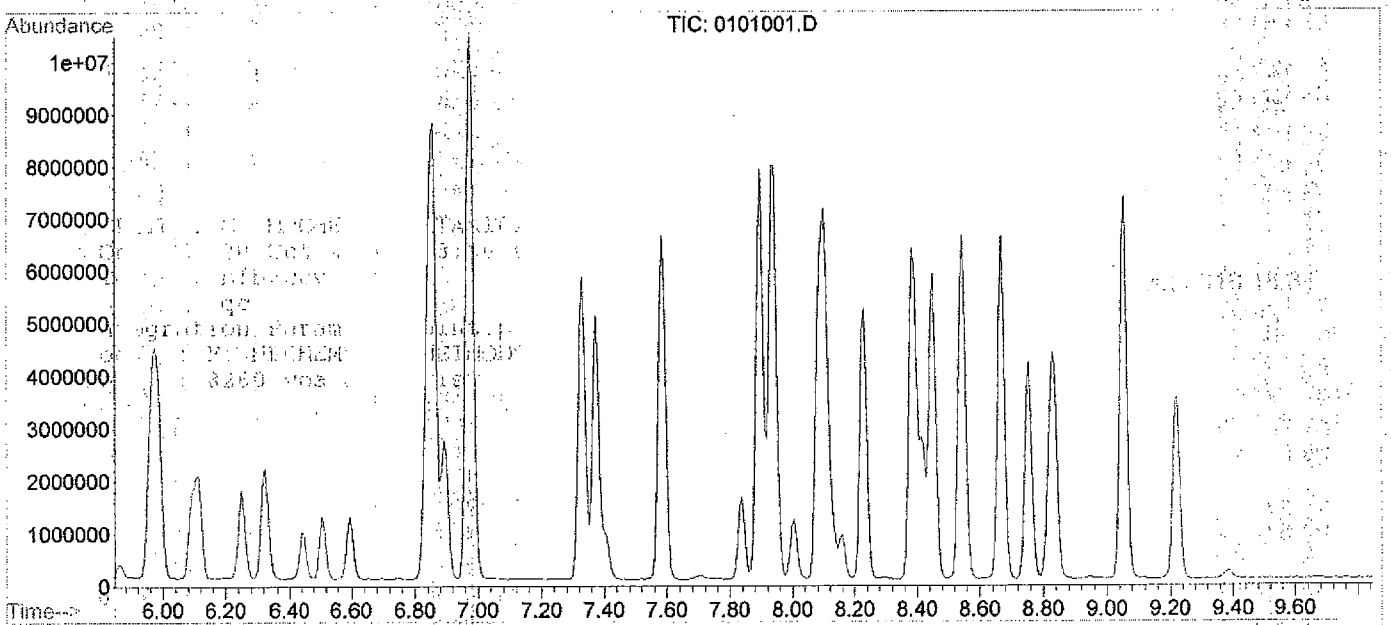
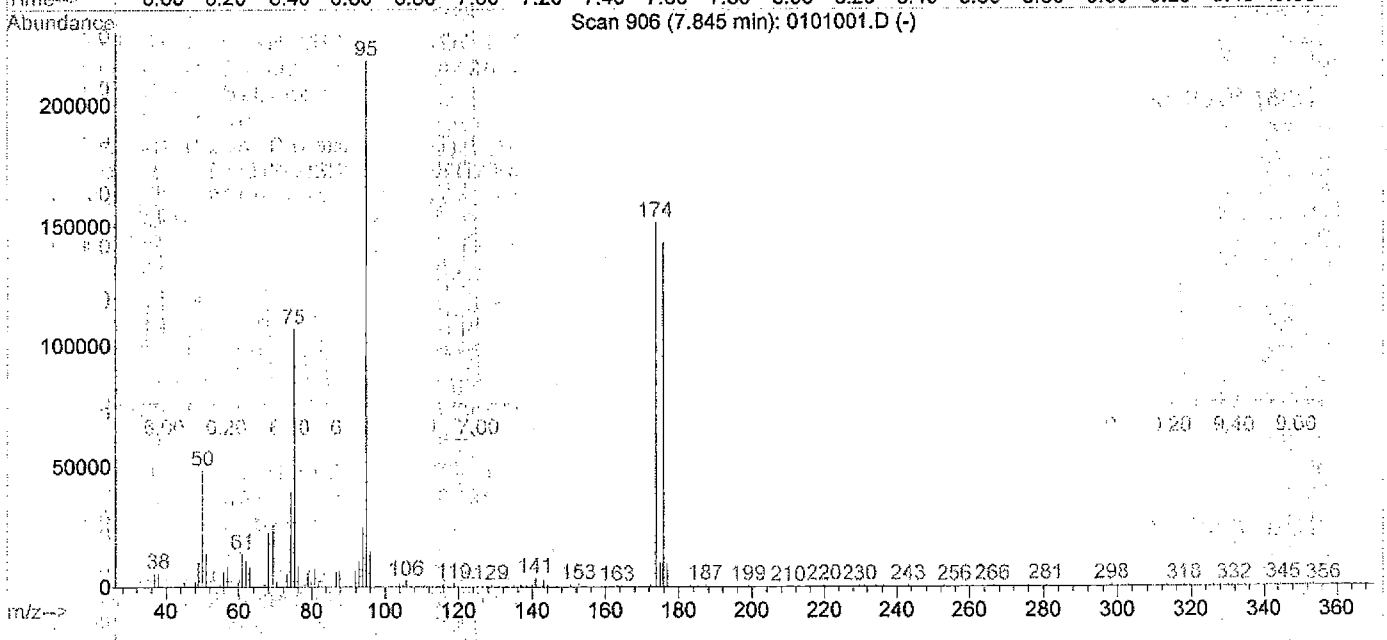
Data File : C:\HPCHEM\1\DATA\102016\0101001.D Vial: 1
Acq On : 20 Oct 2016 8:26 am Operator: GJD
Sample : bfb/ccv 50ppb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis





Spectrum Information: Scan 906

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	48658	PASS
75	95	30	60	49.1	107288	PASS
95	95	100	100	100.0	218460	PASS
96	95	5	9	6.8	14859	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.4	151616	PASS
175	174	5	9	6.7	10134	PASS
176	174	95	101	94.7	143511	PASS
177	176	5	9	6.7	9642	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\102016\0101001.D Vial: 1
Acq On : 20 Oct 2016 8:26 am 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\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
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	140	0.00
2	T	Dichlorodifluoromethane	1.452	1.183	18.5	119	0.00
3	T	Chloromethane	1.013	0.943	6.9	135	0.01
4	T	Vinyl Chloride	0.907	0.909	-0.2	149	0.00
5	T	Bromomethane	0.828	0.811	2.1	146	0.00
6	T	Chloroethane	0.556	0.520	6.5	144	0.00
7	T	Acrolein	0.763	0.717	6.0	141	0.00
8	T	Trichlorofluoromethane	1.706	1.595	6.5	148	0.00
9	T	Acetone	0.089	0.079	11.2	131	0.00
10	T	1,1-Dichloroethene	1.408	1.340	4.8	137	0.00
11	T	Acrylonitrile	1.491	1.450	2.7	145	0.00
12	T	Iodomethane	1.181	1.133	4.1	138	0.00
13	T	Methylene Chloride	0.753	0.646	14.2	134	0.00
14	T	Carbon Disulfide	2.534	2.419	4.5	143	0.00
15	T	trans-1,2-Dichloroethene	0.698	0.668	4.3	136	0.00
16	T	Methyl-tert-butyl ether	1.076	1.017	5.5	134	0.00
17	T	1,1-Dichloroethane	1.462	1.391	4.9	138	0.00
18	T	Vinyl Acetate	1.016	0.948	6.7	134	0.00
19	T	N-Hexane	1.395	1.343	3.7	141	0.00
20		n-Butanol	0.482	0.491	-1.9	142	0.00
21	T	2-Butanone (MEK)	0.126	0.127	-0.8	136	0.00
22	T	cis-1,2-Dichloroethene	1.256	1.205	4.1	135	0.00
23	T	Bromochloromethane	0.244	0.249	-2.0	140	0.00
24	T	Chloroform	1.524	1.417	7.0	138	0.00
25	T	2,2-Dichloropropane	1.556	1.511	2.9	142	0.00
26	S	Dibromofluoromethane (SURR)	0.286	0.261	8.7	132	0.00
27	S	1,2-Dichloroethane-d4 (SURR	0.323	0.288	10.8	130	0.00
28	T	1,2-Dichloroethane	0.952	0.877	7.9	131	0.00
29	T	1,1,1-Trichloroethane	1.399	1.302	6.9	136	0.00
30	T	1,1-Dichloropropene	1.218	1.200	1.5	144	0.00
31	T	Carbon Tetrachloride	1.305	1.187	9.0	135	0.00
32	T	Benzene	2.829	2.711	4.2	138	0.00
33	T	Dibromomethane	0.391	0.371	5.1	137	0.00
34	T	1,2-Dichloropropane	0.746	0.711	4.7	140	0.00
35	T	Trichloroethene	0.795	0.773	2.8	141	0.00
36	T	Bromodichloromethane	1.053	0.961	8.7	132	0.00
37	T	2-Chloroethyl-vinyl-ether	0.187	0.178	4.8	140	0.00
38	T	cis-1,3-Dichloropropene	1.133	1.130	0.3	140	0.00
39	T	4-Methyl-2-Pentanone (MIBK)	0.318	0.318	0.0	141	0.00
40	T	trans-1,3-Dichloropropene	0.865	0.804	7.1	136	0.00
41	T	1,1,2-Trichloroethane	0.351	0.334	4.8	139	0.00
42	S	Toluene-d8 (SURR)	0.966	0.942	2.5	137	0.00
43	T	Toluene	2.580	2.501	3.1	139	0.00
44	T	Ethyl Methacrylate	0.235	0.242	-3.0	149	0.00
45	T	1,3-Dichloropropane	0.829	0.798	3.7	137	0.00
46	T	2-Hexanone	0.234	0.235	-0.4	139	0.00
47	I	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	132	0.00
48	T	Dibromochloromethane	0.841	0.856	-1.8	135	0.00
49	T	1,2-Dibromoethane (EDB)	0.610	0.647	-6.1	141	0.00
50	T	Tetrachloroethene	1.118	1.065	4.7	136	0.00
51	T	1,1,1,2-Tetrachloroethane	0.760	0.786	-3.4	138	0.00
52	T	Chlorobenzene	2.254	2.311	-2.5	139	0.00
53	T	Ethylbenzene	4.581	4.627	-1.0	141	0.00
54	T	m,p-Xylene	3.520	3.544	-0.7	141	0.00
55	T	Bromoform	0.358	0.359	-0.3	136	0.00
56	T	Styrene	2.436	2.556	-4.9	143	0.00
57	T	1,1,2,2-Tetrachloroethane	0.656	0.668	-1.8	140	0.00
58	T	o-Xylene	1.623	1.670	-2.9	139	0.00
59	T	trans-1,4-Dichloro-2-butene	0.213	0.224	-5.2	133	0.00
60	T	1,2,3-Trichloropropane	0.680	0.738	-8.5	142	0.00
61	T	Isopropylbenzene	4.801	4.931	-2.7	140	0.00

62	S	4-Bromofluorobenzene (SURR)	0.607	0.608	-0.2	133	0.00
63	T	Bromobenzene	0.788	0.785	0.4	145	0.00
64	T	N-propylbenzene	5.617	5.703	-1.5	145	0.00
65	T	2-Chlorotoluene	3.832	3.802	0.8	137	0.00
66	T	4-Chlorotoluene	0.911	0.945	-3.7	140	0.00
67	I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	131	0.00
68	T	1,3,5-Trimethylbenzene	8.352	8.856	-6.0	138	0.00
69	T	tert-Butylbenzene	8.800	9.788	-11.2	140	0.00
70	T	1,2,4-Trimethylbenzene	8.405	9.092	-8.2	141	0.00
71	T	sec-Butylbenzene	12.232	13.821	-13.0	144	0.00
72	T	1,3-Dichlorobenzene	3.966	4.264	-7.5	139	0.00
73	T	1,4-Dichlorobenzene	2.428	2.533	-4.3	137	0.00
74	T	p-Isopropyltoluene	9.731	10.885	-11.9	141	0.00
75	T	1,2-Dichlorobenzene	3.430	3.681	-7.3	133	0.00
76	T	N-Butylbenzene	10.960	12.120	-10.6	138	0.00
77	T	1,2-Dibromo-3-chloropropane	0.176	0.185	-5.1	141	0.00
78	T	1,2,4-Trichlorobenzene	2.128	2.335	-9.7	142	0.00
79	T	Naphthalene	3.623	4.053	-11.9	143	0.00
80	T	Hexachloro-1,3-butadiene	1.574	1.805	-14.7	146	0.00
81	T	1,2,3-Trichlorobenzene	1.911	1.988	-4.0	139	0.00
82		1-methylnaphthalene	1.649	1.794	-8.8	142	0.00
83		2-methylnaphthalene	2.115	2.426	-14.7	140	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
0601006.D T093016RC.M Mon Oct 24 18:31:50 2016 VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\0101001.D Vial: 1
Acq On : 20 Oct 2016 8:26 am Operator: GJD
Sample : bfb/ccv 50ppb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 20 9:36 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.56	96	1252788	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	803918	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	315886	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	327487	45.70	ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 91.40%						
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	360737	44.54	ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 89.08%						
42) Toluene-d8 (SURR)	5.65	98	1179525	48.74	ug/L	0.00
Spiked Amount 50.000 Range 60 - 128 Recovery = 97.48%						
62) 4-Bromofluorobenzene (SURR	7.84	95	488903	50.10	ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 100.20%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.34	85	1482231m	40.74	ug/L	
3) Chloromethane	1.51	50	1181631m	46.56	ug/L	
4) Vinyl Chloride	1.56	62	1138877m	50.09	ug/L	
5) Bromomethane	1.83	94	1016493m	48.97	ug/L	
6) Chloroethane	1.93	64	651653m	46.78	ug/L	
7) Acrolein	3.00	56	898278	46.98	ug/L	99
8) Trichlorofluoromethane	2.04	101	1997971m	46.73	ug/L	
9) Acetone	2.87	43	246820	110.96	ug/L #	91
10) 1,1-Dichloroethene	2.42	61	1678808m	47.59	ug/L	
11) Acrylonitrile	3.34	53	1816114	48.60	ug/L	97
12) Iodomethane	2.52	142	1419865m	47.99	ug/L	
13) Methylene Chloride	2.84	84	809366m	42.91	ug/L	
14) Carbon Disulfide	2.44	76	3030502m	47.73	ug/L	
15) trans-1,2-Dichloroethene	2.94	96	837443	47.87	ug/L	94
16) Methyl-tert-butyl ether	3.02	73	1273460	47.23	ug/L	95
17) 1,1-Dichloroethane	3.36	63	1742542	47.57	ug/L	99
18) Vinyl Acetate	3.27	43	1187513	46.64	ug/L #	100
19) N-Hexane	3.00	57	1682308	48.13	ug/L	100
20) n-Butanol	3.51	57	614760	50.94	ug/L	97
21) 2-Butanone (MEK)	4.10	43	396983	125.86	ug/L	98
22) cis-1,2-Dichloroethene	3.71	61	1509768	47.98	ug/L	97
23) Bromochloromethane	3.85	128	312297	50.99	ug/L #	88
24) Chloroform	3.89	83	1774670	46.47	ug/L	98
25) 2,2-Dichloropropane	3.78	77	1892477	48.53	ug/L	99
28) 1,2-Dichloroethane	4.41	62	1098830	46.07	ug/L	93
29) 1,1,1-Trichloroethane	4.03	97	1631526	46.53	ug/L	99
30) 1,1-Dichloropropene	4.11	75	1502891	49.23	ug/L	99
31) Carbon Tetrachloride	3.99	117	1486934	45.46	ug/L	99
32) Benzene	4.28	78	3396509	47.92	ug/L	99
33) Dibromomethane	4.96	93	464402	47.44	ug/L	98
34) 1,2-Dichloropropane	5.03	63	890974	47.64	ug/L	95
35) Trichloroethene	4.66	95	968385	48.63	ug/L	99
36) Bromodichloromethane	5.06	83	1204429	45.64	ug/L	97
37) 2-Chloroethyl-vinyl-ether	5.03	63	890974	190.56	ug/L #	99
38) cis-1,3-Dichloropropene	5.51	75	1415602	49.86	ug/L	98
39) 4-Methyl-2-Pentanone (MIBK	5.95	43	995925	125.15	ug/L	99
40) trans-1,3-Dichloropropene	5.99	75	1007103	46.46	ug/L	98
41) 1,1,2-Trichloroethane	6.11	83	417986	47.53	ug/L	97
43) Toluene	5.68	91	3132883	48.47	ug/L	97
44) Ethyl Methacrylate	5.16	69	303113	51.53	ug/L	95
45) 1,3-Dichloropropane	6.32	76	1000181	48.13	ug/L	96
46) 2-Hexanone	6.59	43	735214	125.47	ug/L	97
48) Dibromochloromethane	6.25	129	687766	50.88	ug/L	99
49) 1,2-Dibromoethane (EDB)	6.44	107	520264	53.04	ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\0101001.D
Acq On : 20 Oct 2016 8:26 am
Sample : bfb/ccv 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 20 9:36 2016

Vial: 1
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.97	166	855964	47.61 ug/L		97
51) 1,1,1,2-Tetrachloroethane	6.89	131	631847	51.72 ug/L		98
52) Chlorobenzene	6.85	112	1858060	51.28 ug/L		98
53) Ethylbenzene	6.86	91	3719505	50.50 ug/L		98
54) m,p-Xylene	6.97	91	5698444	100.69 ug/L		97
55) Bromoform	7.41	173	288669	50.17 ug/L	#	99
56) Styrene	7.37	104	2054615	52.46 ug/L		98
57) 1,1,2,2-Tetrachloroethane	8.01	83	536978	50.88 ug/L		99
58) o-Xylene	7.33	106	1342675	51.44 ug/L		98
59) trans-1,4-Dichloro-2-buten	8.16	53	179980	52.61 ug/L		97
60) 1,2,3-Trichloropropane	8.13	75	592988	54.22 ug/L	#	10
61) Isopropylbenzene	7.58	105	3963748	51.34 ug/L		100
63) Bromobenzene	7.93	156	631216	49.81 ug/L		91
64) N-propylbenzene	7.94	91	4584450	50.76 ug/L		100
65) 2-Chlorotoluene	8.09	91	3056130	49.60 ug/L		99
66) 4-Chlorotoluene	8.23	126	759926	51.89 ug/L		97
68) 1,3,5-Trimethylbenzene	8.11	105	2797602	53.02 ug/L		98
69) tert-Butylbenzene	8.38	119	3091970	55.61 ug/L		99
70) 1,2,4-Trimethylbenzene	8.45	105	2871927	54.09 ug/L	#	99
71) sec-Butylbenzene	8.54	105	4365894	56.50 ug/L	#	96
72) 1,3-Dichlorobenzene	8.75	146	1346932	53.76 ug/L		99
73) 1,4-Dichlorobenzene	8.83	148	800152	52.17 ug/L		99
74) p-Isopropyltoluene	8.67	119	3438303	55.93 ug/L		99
75) 1,2-Dichlorobenzene	9.22	146	1162712	53.66 ug/L		97
76) N-Butylbenzene	9.05	91	3828642	55.29 ug/L		98
77) 1,2-Dibromo-3-chloropropan	9.97	155	58466	52.51 ug/L		93
78) 1,2,4-Trichlorobenzene	10.61	180	737683	54.86 ug/L		98
79) Naphthalene	10.92	128	1280303	55.93 ug/L		99
80) Hexachloro-1,3-butadiene	10.57	225	570075	57.33 ug/L		99
81) 1,2,3-Trichlorobenzene	11.11	180	627841	52.01 ug/L		98
82) 1-methylnaphthalene	12.13	142	566547	54.37 ug/L		95
83) 2-methylnaphthalene	11.96	142	766432m	57.35 ug/L		

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

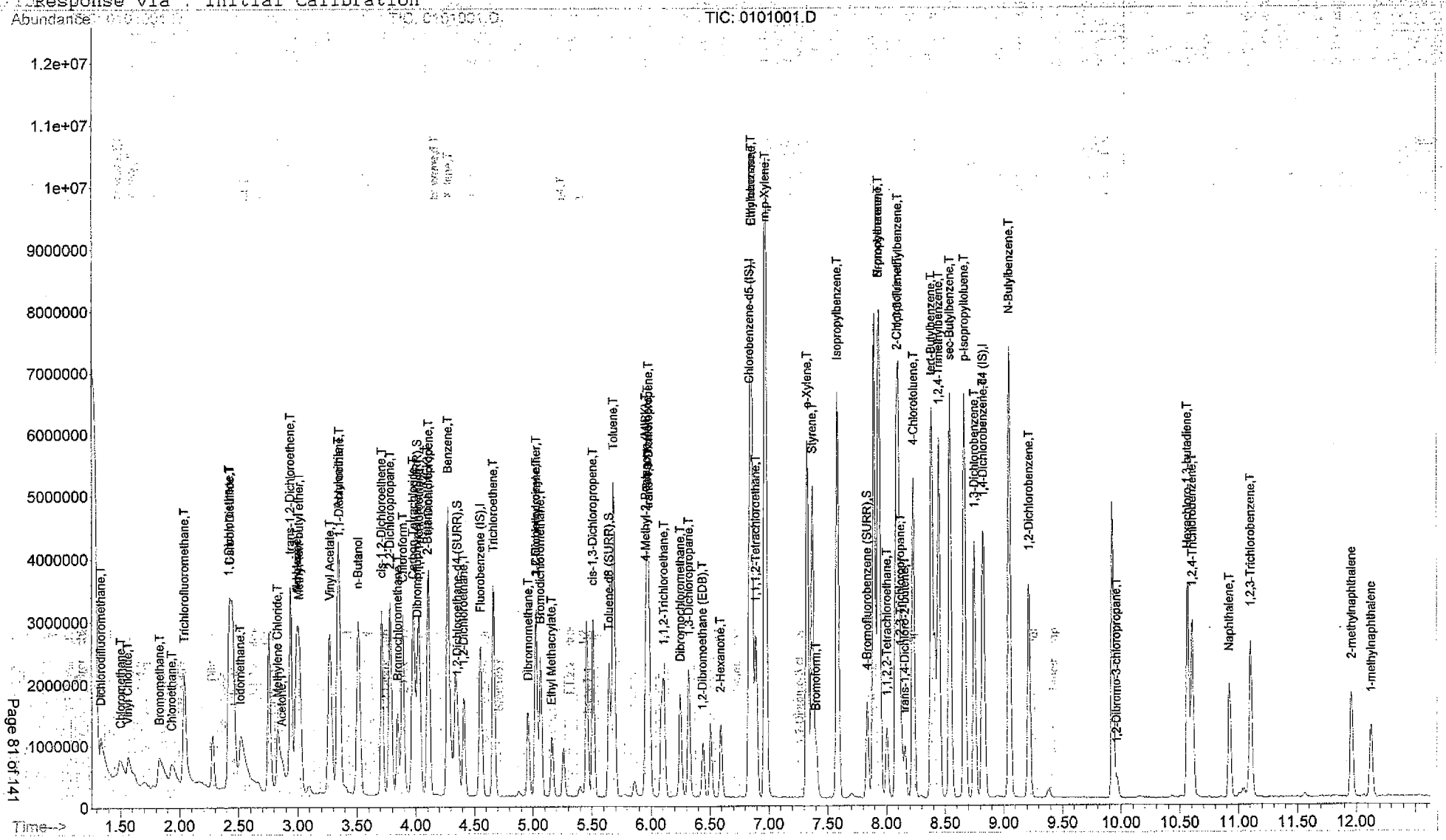
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\0101001.D
Acq On : 20 Oct 2016 8:26 am
Sample : bfb/ccv 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 20 9:36 2016

Vial: 1
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



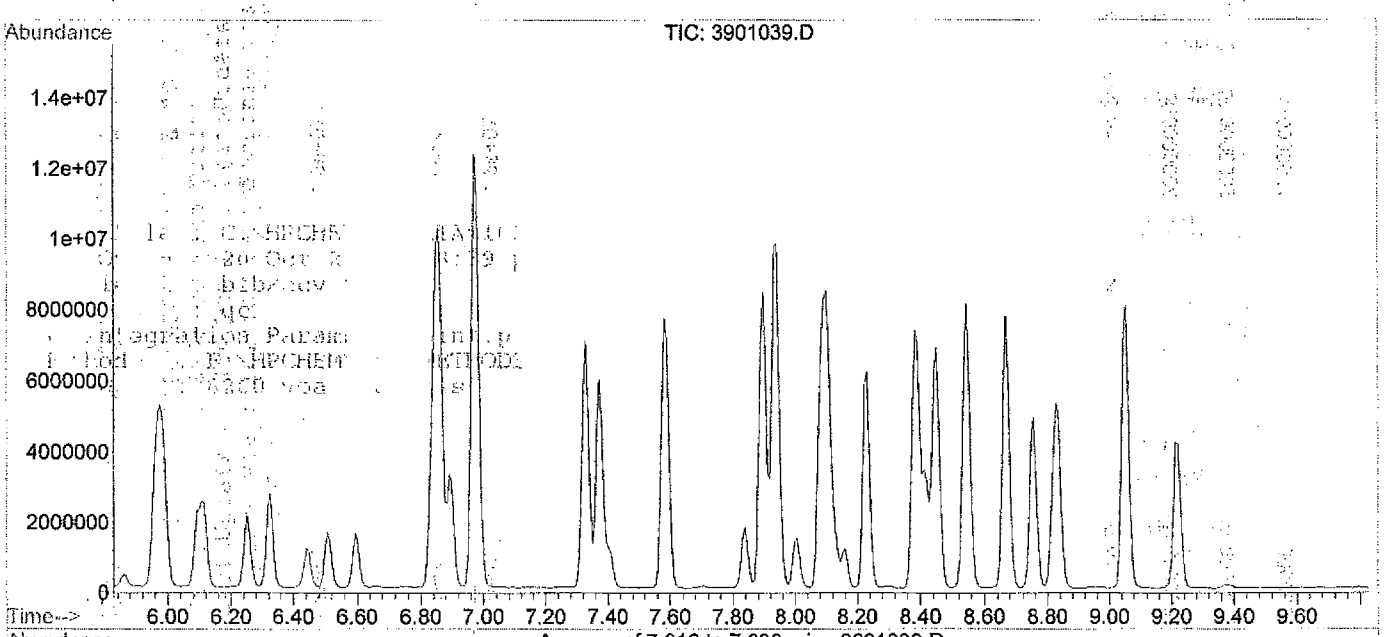
GC/MS QA-QC CHECK REPORT

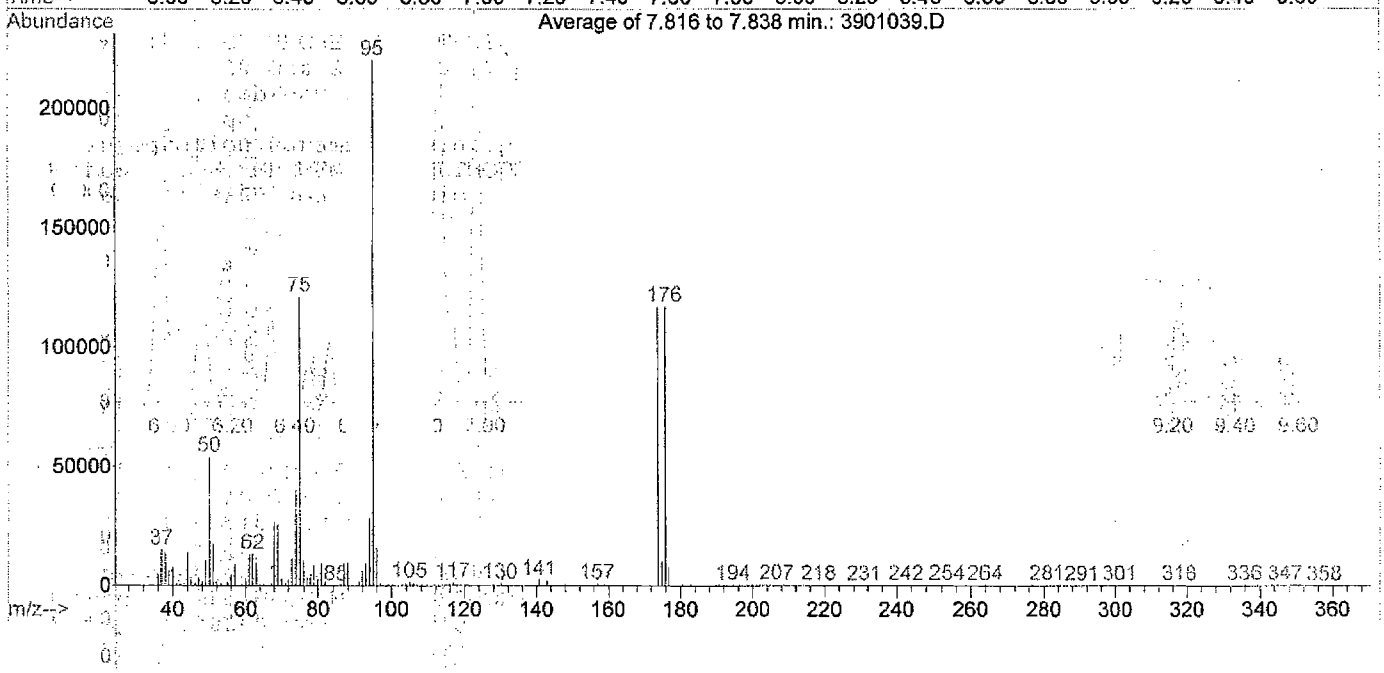
Tune File: C:\HPCHEM\1\DATA\102016\0101001.D
Tune Time: 20-Oct-16 8:26 AM

						1252788	803918	315886
FILE	SAMPLE	SURROGATE RECOVERY %				INTERNAL STANDARD RESPONSES		
0501005.D	mb	109	108	99	99	1495082	996798	430219
0201002.D	lcs 50ppb	92	89	97	102	1302059	832961	333934
0301003.D	lcsd 50ppb	88	89	96	103	1308679	846667	339852
2601026.D	16-21542	108	108	96	99	1457269	972994	416457
2701027.D	16-21543	101	101	98	98	1454527	982322	407474
2801028.D	16-21544	106	106	95	96	1540484	1036593	449602
2901029.D	16-21545	106	100	96	96	1525893	1019509	431616
3001030.D	16-21546	109	102	96	97	1537474	1026637	442304
3101031.D	16-21547	110	103	96	101	1514858	995959	436993
3201032.D	16-21548	90	96	86	93	1528816	947606	422259
3301033.D	16-21548ms	79	82	88	97	1504386	949314	405759
3401034.D	16-21548msd	79	80	86	92	1533786	969382	395619
3501035.D	16-21549	107	104	95	98	1510556	1007573	430302
3601036.D	16-21550	109	102	94	99	1555872	1019201	445695
3701037.D	16-21551	108	104	98	100	1499654	1003743	316390

* - fails criteria
t - fails 12hr time check
Created: Fri. 28-Oct 10:36:00 2016

Data File : C:\HPCHEM\1\DATA\102016\3901039.D Vial: 39
Acq On : 20 Oct 2016 8:39 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\093016RC.M (RTE Integrator)
Title : 8260 voa analysis





Spectrum Information: Average of 7.816 to 7.838 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.5	54006	PASS
75	95	30	60	55.0	121090	PASS
95	95	100	100	100.0	220154	PASS
96	95	5	9	7.2	15902	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	53.0	116738	PASS
175	174	5	9	8.6	10088	PASS
176	174	95	101	100.3	117049	PASS
177	176	5	9	6.6	7750	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\102016\3901039.D
Acq On : 20 Oct 2016 8:39 pm
Sample : bfb/ccv 50ppb
Misc : qc
MS Integration Params: rteint.p

Vial: 39
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
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	171	0.00
2	T	Dichlorodifluoromethane	1.452	1.550	-6.7	192	0.00
3	T	Chloromethane	1.013	0.984	2.9	173	0.00
4	T	Vinyl Chloride	0.907	0.835	7.9	168	0.00
5	T	Bromomethane	0.828	0.764	7.7	168	0.00
6	T	Chloroethane	0.556	0.534	4.0	181	0.00
7	T	Acrolein	0.763	0.715	6.3	172	0.00
8	T	Trichlorofluoromethane	1.706	1.558	8.7	178	0.00
9	T	Acetone	0.089	0.081	9.0	165	0.00
10	T	1,1-Dichloroethene	1.408	1.305	7.3	164	0.00
11	T	Acrylonitrile	1.491	1.329	10.9	163	0.00
12	T	Iodomethane	1.181	1.133	4.1	170	0.00
13	T	Methylene Chloride	0.753	0.679	9.8	173	0.00
14	T	Carbon Disulfide	2.534	2.285	9.8	166	0.00
15	T	trans-1,2-Dichloroethene	0.698	0.671	3.9	168	0.00
16	T	Methyl-tert-butyl ether	1.076	1.079	-0.3	175	0.00
17	T	1,1-Dichloroethane	1.462	1.352	7.5	165	0.00
18	T	Vinyl Acetate	1.016	0.966	4.9	168	0.00
19	T	N-Hexane	1.395	1.353	3.0	174	0.00
20		n-Butanol	0.482	0.490	-1.7	174	0.00
21	T	2-Butanone (MEK)	0.126	0.137	-8.7	181	0.00
22	T	cis-1,2-Dichloroethene	1.256	1.183	5.8	163	0.00
23	T	Bromochloromethane	0.244	0.221	9.4	152	0.00
24	T	Chloroform	1.524	1.371	10.0	164	0.00
25	T	2,2-Dichloropropane	1.556	1.375	11.6	159	0.00
26	S	Dibromofluoromethane (SURR)	0.286	0.230	19.6	143	0.00
27	S	1,2-Dichloroethane-d4 (SURR	0.323	0.254	21.4	140	0.00
28	T	1,2-Dichloroethane	0.952	0.895	6.0	164	0.00
29	T	1,1,1-Trichloroethane	1.399	1.273	9.0	163	0.00
30	T	1,1-Dichloropropene	1.218	1.179	3.2	173	0.00
31	T	Carbon Tetrachloride	1.305	1.149	12.0	160	0.00
32	T	Benzene	2.829	2.705	4.4	169	0.00
33	T	Dibromomethane	0.391	0.374	4.3	169	0.00
34	T	1,2-Dichloropropane	0.746	0.730	2.1	176	0.00
35	T	Trichloroethene	0.795	0.740	6.9	166	0.00
36	T	Bromodichloromethane	1.053	0.967	8.2	163	0.00
37	T	2-Chloroethyl-vinyl-ether	0.187	0.182	2.7	176	0.00
38	T	cis-1,3-Dichloropropene	1.133	1.154	-1.9	176	0.00
39	T	4-Methyl-2-Pentanone (MIBK)	0.318	0.340	-6.9	184	0.00
40	T	trans-1,3-Dichloropropene	0.865	0.809	6.5	168	0.00
41	T	1,1,2-Trichloroethane	0.351	0.338	3.7	173	0.00
42	S	Toluene-d8 (SURR)	0.966	0.852	11.8	153	0.00
43	T	Toluene	2.580	2.494	3.3	170	0.00
44	T	Ethyl Methacrylate	0.235	0.267	-13.6	201#	0.00
45	T	1,3-Dichloropropane	0.829	0.841	-1.4	177	0.00
46	T	2-Hexanone	0.234	0.251	-7.3	182	0.00
47	I	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	167	0.00
48	T	Dibromochloromethane	0.841	0.840	0.1	168	0.00
49	T	1,2-Dibromoethane (EDB)	0.610	0.635	-4.1	175	0.00
50	T	Tetrachloroethene	1.118	0.925	17.3	150	0.00
51	T	1,1,1,2-Tetrachloroethane	0.760	0.761	-0.1	169	0.00
52	T	Chlorobenzene	2.254	2.184	3.1	166	0.00
53	T	Ethylbenzene	4.581	4.342	5.2	167	0.00
54	T	m,p-Xylene	3.520	3.332	5.3	168	0.00
55	T	Bromoform	0.358	0.356	0.6	171	0.00
56	T	Styrene	2.436	2.407	1.2	170	0.00
57	T	1,1,2,2-Tetrachloroethane	0.656	0.696	-6.1	185	0.00
58	T	o-Xylene	1.623	1.629	-0.4	172	0.00
59	T	trans-1,4-Dichloro-2-butene	0.213	0.220	-3.3	166	0.00
60	T	1,2,3-Trichloropropane	0.680	0.741	-9.0	180	0.00
61	T	Isopropylbenzene	4.801	4.715	1.8	170	0.00

62	S	4-Bromofluorobenzene (SURR)	0.607	0.558	8.1	155	0.00
63	T	Bromobenzene	0.788	0.735	6.7	172	0.00
64	T	N-propylbenzene	5.617	5.452	2.9	175	0.00
65	T	2-Chlorotoluene	3.832	3.586	6.4	164	0.00
66	T	4-Chlorotoluene	0.911	0.891	2.2	168	0.00
67	I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	163	0.00
68	T	1,3,5-Trimethylbenzene	8.352	8.591	-2.9	167	0.00
69	T	tert-Butylbenzene	8.800	9.412	-7.0	167	0.00
70	T	1,2,4-Trimethylbenzene	8.405	8.495	-1.1	164	0.00
71	T	sec-Butylbenzene	12.232	13.137	-7.4	171	0.00
72	T	1,3-Dichlorobenzene	3.966	3.952	0.4	160	0.00
73	T	1,4-Dichlorobenzene	2.428	2.367	2.5	159	0.00
74	T	p-Isopropyltoluene	9.731	10.173	-4.5	164	0.00
75	T	1,2-Dichlorobenzene	3.430	3.557	-3.7	160	0.00
76	T	N-Butylbenzene	10.960	11.179	-2.0	159	0.00
77	T	1,2-Dibromo-3-chloropropane	0.176	0.185	-5.1	176	0.00
78	T	1,2,4-Trichlorobenzene	2.128	2.088	1.9	159	0.00
79	T	Naphthalene	3.623	3.950	-9.0	174	0.00
80	T	Hexachloro-1,3-butadiene	1.574	1.567	0.4	159	0.00
81	T	1,2,3-Trichlorobenzene	1.911	1.922	-0.6	168	0.00
82		1-methylnaphthalene	1.649	1.754	-6.4	174	0.00
83		2-methylnaphthalene	2.115	2.492	-17.8	179	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
0601006.D 093016RC.M Mon Oct 24 18:33:13 2016 VOCWTS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3901039.D
Acq On : 20 Oct 2016 8:39 pm
Sample : bfb/ccv 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 24 18:08 2016

Vial: 39
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.56	96	1536348	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	1018299	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	393976	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	353520	40.22	ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 80.44%						
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	389668	39.23	ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 78.46%						
42) Toluene-d8 (SURR)	5.65	98	1309237	44.11	ug/L	0.00
Spiked Amount 50.000 Range 60 - 128 Recovery = 88.22%						
62) 4-Bromofluorobenzene (SURR	7.84	95	568530	45.99	ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 91.98%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.33	85	2380640m	53.35	ug/L		
3) Chloromethane	1.50	50	1511095m	48.56	ug/L		
4) Vinyl Chloride	1.56	62	1282485m	45.99	ug/L		
5) Bromomethane	1.83	94	1173050m	46.09	ug/L		
6) Chloroethane	1.93	64	820704m	48.04	ug/L		
7) Acrolein	2.99	56	1099056	46.88	ug/L		99
8) Trichlorofluoromethane	2.04	101	2393932m	45.66	ug/L		
9) Acetone	2.87	43	310740	113.91	ug/L	#	96
10) 1,1-Dichloroethene	2.42	61	2004705m	46.34	ug/L		
11) Acrylonitrile	3.34	53	2041810	44.55	ug/L		98
12) Iodomethane	2.52	142	1741178m	47.99	ug/L		
13) Methylene Chloride	2.83	84	1042985m	45.09	ug/L		
14) Carbon Disulfide	2.43	76	3510454m	45.08	ug/L		
15) trans-1,2-Dichloroethene	2.94	96	1031074	48.06	ug/L		98
16) Methyl-tert-butyl ether	3.02	73	1656961	50.12	ug/L		100
17) 1,1-Dichloroethane	3.35	63	2077540	46.25	ug/L		99
18) Vinyl Acetate	3.27	43	1484702	47.55	ug/L	#	100
19) N-Hexane	2.99	57	2077946	48.48	ug/L		99
20) n-Butanol	3.51	57	753140	50.89	ug/L		97
21) 2-Butanone (MEK)	4.10	43	527531	136.38	ug/L		98
22) cis-1,2-Dichloroethene	3.71	61	1817793	47.10	ug/L		96
23) Bromochloromethane	3.85	128	339894	45.26	ug/L	#	97
24) Chloroform	3.89	83	2106711	44.99	ug/L		100
25) 2,2-Dichloropropane	3.78	77	2112648	44.18	ug/L		98
28) 1,2-Dichloroethane	4.41	62	1374663	47.00	ug/L		96
29) 1,1,1-Trichloroethane	4.03	97	1955932	45.49	ug/L		99
30) 1,1-Dichloropropene	4.11	75	1811817	48.40	ug/L		99
31) Carbon Tetrachloride	3.98	117	1764818	44.00	ug/L		98
32) Benzene	4.28	78	4155650	47.80	ug/L		99
33) Dibromomethane	4.96	93	575086	47.90	ug/L		97
34) 1,2-Dichloropropane	5.03	63	1121031	48.88	ug/L		93
35) Trichloroethene	4.66	95	1136600	46.55	ug/L		99
36) Bromodichloromethane	5.06	83	1485397	45.90	ug/L		100
37) 2-Chloroethyl-vinyl-ether	5.03	63	1121031	195.51	ug/L	#	99
38) cis-1,3-Dichloropropene	5.51	75	1773273	50.93	ug/L		98
39) 4-Methyl-2-Pentanone (MIBK	5.95	43	1305127	133.74	ug/L		97
40) trans-1,3-Dichloropropene	5.99	75	1242422	46.74	ug/L		97
41) 1,1,2-Trichloroethane	6.11	83	519638	48.18	ug/L		99
43) Toluene	5.68	91	3831077	48.33	ug/L		99
44) Ethyl Methacrylate	5.16	69	410079	56.84	ug/L		90
45) 1,3-Dichloropropane	6.32	76	1291696	50.68	ug/L		98
46) 2-Hexanone	6.59	43	962450	133.93	ug/L		98
48) Dibromochloromethane	6.25	129	855526	49.97	ug/L		99
49) 1,2-Dibromoethane (EDB)	6.44	107	646476	52.04	ug/L		98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3901039.D Vial: 39
Acq On : 20 Oct 2016 8:39 pm Operator: GJD
Sample : bfb/ccv 50ppb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 24 18:08 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	Tetrachloroethene	5.97	166	941879	41.36 ug/L		97
51)	1,1,1,2-Tetrachloroethane	6.89	131	774469	50.05 ug/L		99
52)	Chlorobenzene	6.85	112	2223819	48.45 ug/L		96
53)	Ethylbenzene	6.86	91	4421895	47.39 ug/L		98
54)	m,p-Xylene	6.97	91	6786936	94.67 ug/L		98
55)	Bromoform	7.40	173	362127	49.68 ug/L		99
56)	Styrene	7.37	104	2450701	49.40 ug/L		98
57)	1,1,2,2-Tetrachloroethane	8.01	83	709019	53.04 ug/L		99
58)	o-Xylene	7.33	106	1658774	50.17 ug/L		97
59)	trans-1,4-Dichloro-2-buten	8.16	53	223618	51.60 ug/L		96
60)	1,2,3-Trichloropropane	8.13	75	754103	54.44 ug/L	#	10
61)	Isopropylbenzene	7.58	105	4801545	49.10 ug/L		98
63)	Bromobenzene	7.93	156	748337	46.62 ug/L		96
64)	N-propylbenzene	7.94	91	5551978	48.53 ug/L		99
65)	2-Chlorotoluene	8.09	91	3651789	46.79 ug/L		99
66)	4-Chlorotoluene	8.23	126	907439	48.92 ug/L		97
68)	1,3,5-Trimethylbenzene	8.10	105	3384618	51.43 ug/L		99
69)	tert-Butylbenzene	8.38	119	3708061	53.48 ug/L		98
70)	1,2,4-Trimethylbenzene	8.45	105	3346934	50.54 ug/L	#	99
71)	sec-Butylbenzene	8.54	105	5175657	53.70 ug/L	#	96
72)	1,3-Dichlorobenzene	8.76	146	1557170	49.83 ug/L		98
73)	1,4-Dichlorobenzene	8.84	148	932699	48.76 ug/L		97
74)	p-Isopropyltoluene	8.67	119	4007827	52.27 ug/L		99
75)	1,2-Dichlorobenzene	9.21	146	1401252	51.85 ug/L		97
76)	N-Butylbenzene	9.05	91	4404109	51.00 ug/L		98
77)	1,2-Dibromo-3-chloropropan	9.97	155	72714	52.37 ug/L		94
78)	1,2,4-Trichlorobenzene	10.61	180	822468	49.04 ug/L		97
79)	Naphthalene	10.92	128	1556236	54.51 ug/L		98
80)	Hexachloro-1,3-butadiene	10.57	225	617508	49.79 ug/L		99
81)	1,2,3-Trichlorobenzene	11.11	180	757159	50.29 ug/L		99
82)	1-methylnaphthalene	12.13	142	691011	53.17 ug/L		100
83)	2-methylnaphthalene	11.96	142	981854	58.91 ug/L		100

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

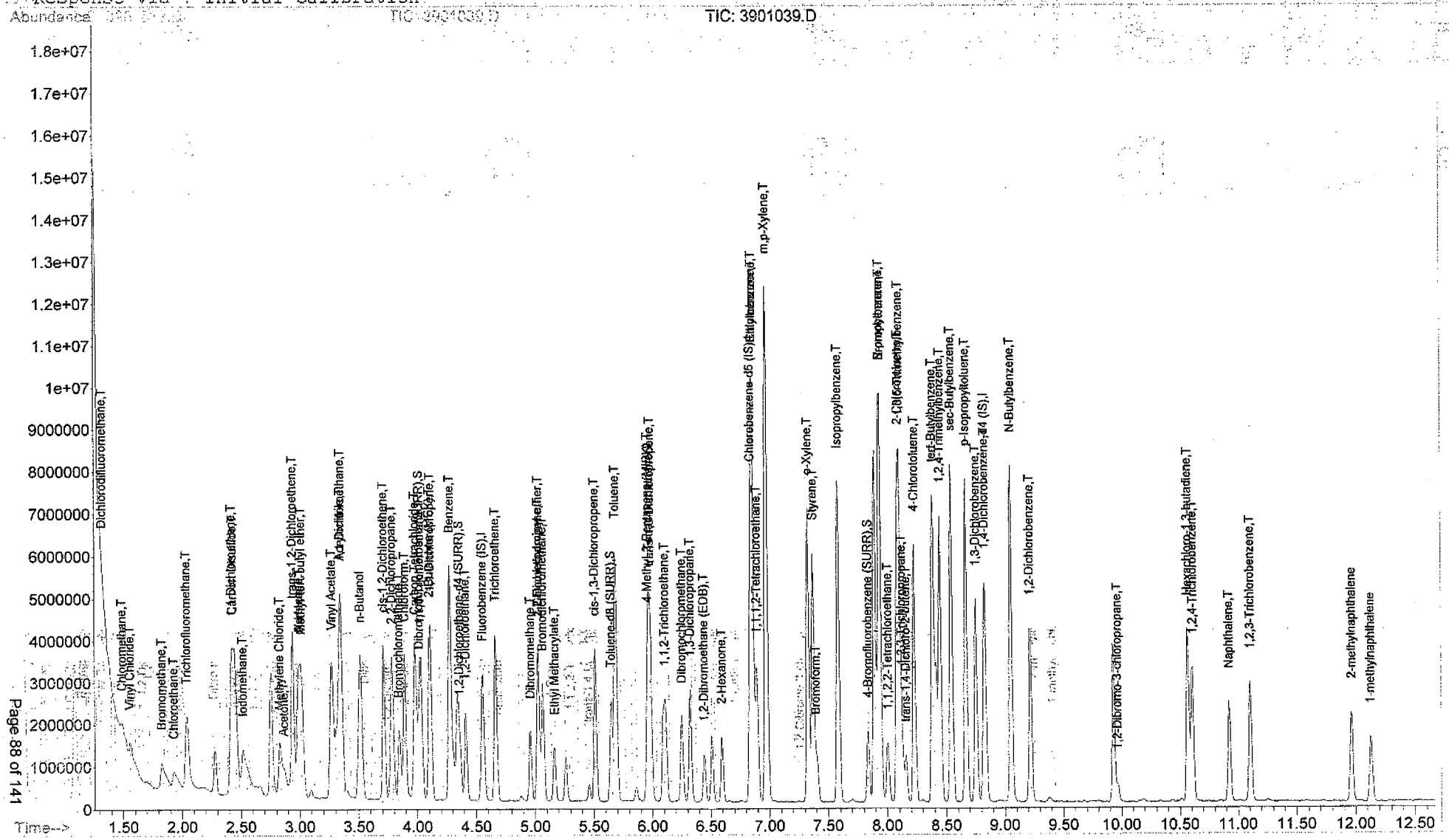
Quantitation Report

Data File : C:\HPCHEM\1\DATA\I02016\3901039.D
Acq On : 20 Oct 2016 8:39 pm
Sample : bfb/ccv 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 24 18:08 2016

Vial: 39
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



GC/MS QA-QC CHECK REPORT

Tune File: C:\HPCHEM\1\DATA\102016\3901039.D
Tune Time: 20-Oct-16 8:39 PM

						1536348	1018299	393976
FILE	SAMPLE	SURROGATE RECOVERY %				INTERNAL STANDARD RESPONSES		
4301043.D	mb	98	97	88	87	1719325	1143736	488486
4001040.D	lcs 50ppb	80	81	89	93	1570504	1022516	405398
4101041.D	lcsd 50ppb	81	79	88	90	1559808	1035489	396191
4401044.D	16-21552	107	107	97	103	1535218	1015554	444045
4501045.D	16-21553	109	101	97	102	1471145	981203	427917
4601046.D	16-21554	104	101	95	102	1350880	884073	401490
4801048.D	16-21555	108	106	96	100	1472412	929660	377740

* - fails criteria
t - fails 12hr time check
Created: Fri. 28-Oct 10:42:00 2016

ENVISION

ENVision Laboratories, Inc.
1439 Sadlier 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)

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\0501005.D Vial: 5
Acq On : 20 Oct 2016 9:41 am Operator: GJD
Sample : mb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 20 10:26 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1495082	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	996798	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	430219	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	466451	54.54 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 109.08%		
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	520849	53.89 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 107.78%		
42) Toluene-d8 (SURR)	5.65	98	1423965	49.30 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 98.60%		
62) 4-Bromofluorobenzene (SURR	7.83	95	599793	49.57 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 99.14%		

Target Compounds Qvalue

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

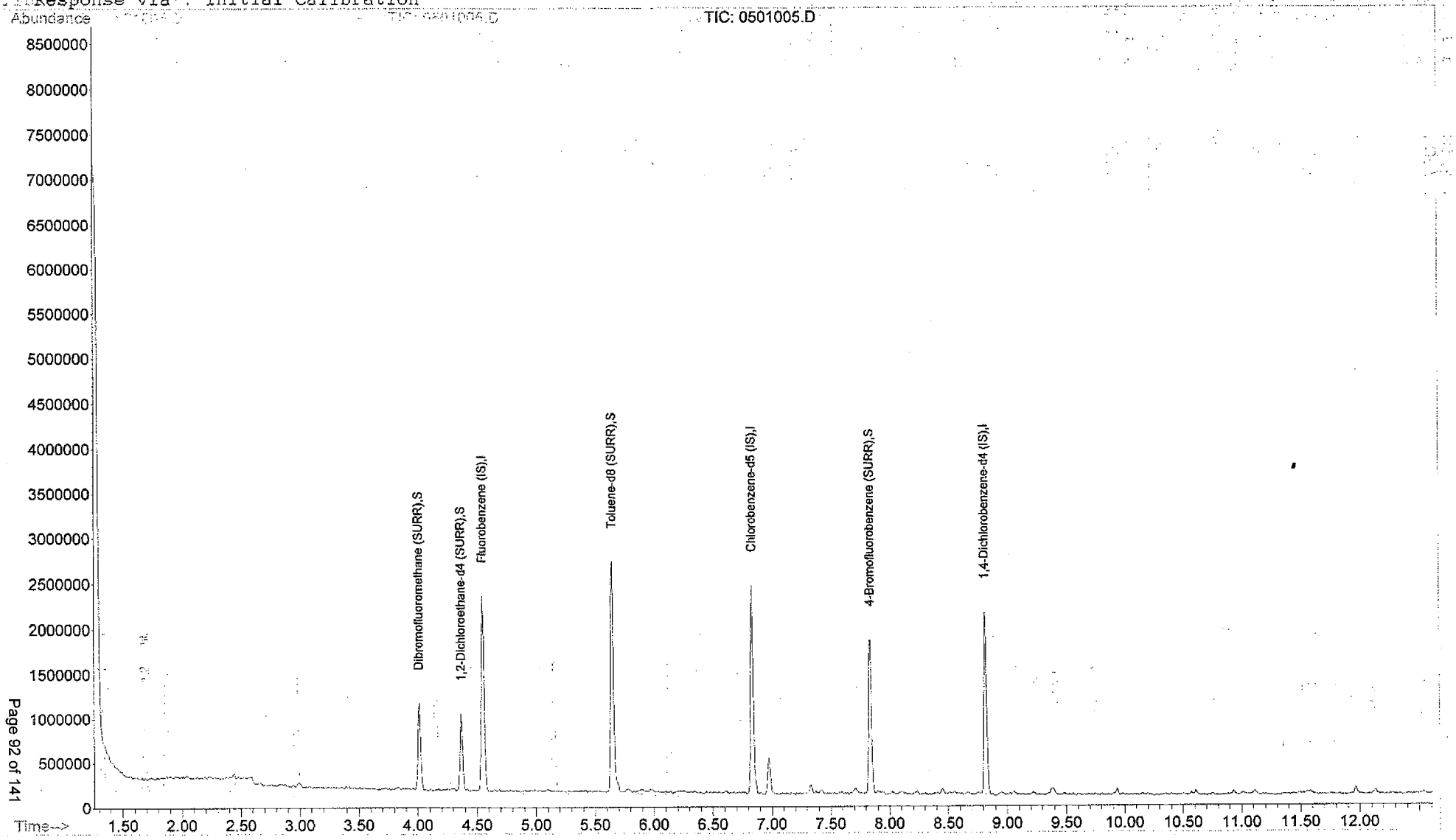
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\0501005.D
Acq On : 20 Oct 2016 9:41 am
Sample : mb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 20 10:26 2016

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

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\0201002.D Vial: 2
Acq On : 20 Oct 2016 8:45 am Operator: GJD
Sample : lcs 50ppb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 20 9:37 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1302059	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	832961	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	333934	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.02	113	343772	46.15 ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 92.30%					
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	374610	44.50 ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 89.00%					
42) Toluene-d8 (SURR)	5.65	98	1216549	48.36 ug/L	0.00
Spiked Amount 50.000 Range 60 - 128 Recovery = 96.72%					
62) 4-Bromofluorobenzene (SURR	7.84	95	514793	50.91 ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 101.82%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.34	85	1550156m	40.99 ug/L	
3) Chloromethane	1.50	50	1330604m	50.45 ug/L	
4) Vinyl Chloride	1.57	62	1173708m	49.67 ug/L	
5) Bromomethane	1.83	94	1036459m	48.05 ug/L	
6) Chloroethane	1.93	64	673018m	46.48 ug/L	
7) Acrolein	3.00	56	919112	46.26 ug/L	99
8) Trichlorofluoromethane	2.04	101	2049680m	46.13 ug/L	
9) Acetone	2.87	43	274188	118.59 ug/L #	91
10) 1,1-Dichloroethene	2.41	61	1527699	41.67 ug/L	95
11) Acrylonitrile	3.34	53	2007207m	51.68 ug/L	
12) Iodomethane	2.52	142	1445311m	47.00 ug/L	
13) Methylene Chloride	2.84	84	842455m	42.97 ug/L	
14) Carbon Disulfide	2.44	76	3098278m	46.95 ug/L	
15) trans-1,2-Dichloroethene	2.95	96	882507	48.53 ug/L	98
16) Methyl-tert-butyl ether	3.02	73	1353215	48.29 ug/L	98
17) 1,1-Dichloroethane	3.35	63	1820794	47.83 ug/L	99
18) Vinyl Acetate	3.27	43	1232702	46.58 ug/L #	100
19) N-Hexane	2.99	57	1736300	47.79 ug/L	99
20) n-Butanol	3.51	57	628039	50.07 ug/L	99
21) 2-Butanone (MEK)	4.10	43	425057	129.67 ug/L	97
22) cis-1,2-Dichloroethene	3.71	61	1557250	47.61 ug/L	97
23) Bromochloromethane	3.85	128	323942	50.89 ug/L #	97
24) Chloroform	3.89	83	1819205	45.84 ug/L	99
25) 2,2-Dichloropropane	3.78	77	1941066	47.89 ug/L	98
28) 1,2-Dichloroethane	4.42	62	1148941	46.35 ug/L	95
29) 1,1,1-Trichloroethane	4.03	97	1710410	46.94 ug/L	99
30) 1,1-Dichloropropene	4.11	75	1575620	49.66 ug/L	99
31) Carbon Tetrachloride	3.99	117	1532593	45.08 ug/L	99
32) Benzene	4.28	78	3570473	48.46 ug/L	99
33) Dibromomethane	4.96	93	473382	46.53 ug/L	99
34) 1,2-Dichloropropane	5.03	63	940833	48.40 ug/L	94
35) Trichloroethene	4.66	95	987657	47.72 ug/L	98
36) Bromodichloromethane	5.06	83	1254407	45.74 ug/L	98
37) 2-Chloroethyl-vinyl-ether	5.03	63	940833	193.61 ug/L #	99
38) cis-1,3-Dichloropropene	5.51	75	1442210	48.88 ug/L	99
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	1078426	130.39 ug/L	98
40) trans-1,3-Dichloropropene	5.99	75	1053290	46.76 ug/L	99
41) 1,1,2-Trichloroethane	6.11	83	436354	47.74 ug/L	99
43) Toluene	5.68	91	3279143	48.81 ug/L	98
44) Ethyl Methacrylate	5.17	69	327016	53.49 ug/L	90
45) 1,3-Dichloropropane	6.32	76	1063248	49.23 ug/L	98
46) 2-Hexanone	6.59	43	814853	133.80 ug/L	99
48) Dibromochloromethane	6.25	129	722850	51.61 ug/L	98
49) 1,2-Dibromoethane (EDB)	6.44	107	537836	52.92 ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\0201002.D
Acq On : 20 Oct 2016 8:45 am
Sample : lcs 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 20 9:37 2016

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

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	Tetrachloroethene	5.97	166	857548	46.04 ug/L		98
51)	1,1,1,2-Tetrachloroethane	6.90	131	680692	53.78 ug/L		99
52)	Chlorobenzene	6.85	112	1918893	51.11 ug/L		97
53)	Ethylbenzene	6.86	91	3840825	50.32 ug/L		98
54)	m,p-Xylene	6.97	91	5930729	101.14 ug/L		98
55)	Bromoform	7.41	173	300324	50.37 ug/L		99
56)	Styrene	7.37	104	2035842	50.17 ug/L		99
57)	1,1,2,2-Tetrachloroethane	8.00	83	556170	50.87 ug/L		99
58)	o-Xylene	7.33	106	1410019	52.14 ug/L		100
59)	trans-1,4-Dichloro-2-buten	8.16	53	183996	51.90 ug/L		97
60)	1,2,3-Trichloropropane	8.13	75	621574	54.86 ug/L		95
61)	Isopropylbenzene	7.58	105	4106595	51.34 ug/L		99
63)	Bromobenzene	7.93	156	643268	48.99 ug/L		94
64)	N-propylbenzene	7.94	91	4785674	51.14 ug/L		99
65)	2-Chlorotoluene	8.08	91	3223487	50.49 ug/L		99
66)	4-Chlorotoluene	8.23	126	800964	52.78 ug/L		96
68)	1,3,5-Trimethylbenzene	8.11	105	2931916	52.56 ug/L		97
69)	tert-Butylbenzene	8.38	119	3228954	54.94 ug/L		98
70)	1,2,4-Trimethylbenzene	8.45	105	2976308	53.02 ug/L	#	99
71)	sec-Butylbenzene	8.54	105	4448780	54.46 ug/L	#	96
72)	1,3-Dichlorobenzene	8.75	146	1390801	52.51 ug/L		99
73)	1,4-Dichlorobenzene	8.83	148	830196	51.20 ug/L		99
74)	p-Isopropyltoluene	8.67	119	3539419	54.46 ug/L		99
75)	1,2-Dichlorobenzene	9.22	146	1214346	53.01 ug/L		98
76)	N-Butylbenzene	9.05	91	3988716	54.49 ug/L		98
77)	1,2-Dibromo-3-chloropropan	9.97	155	58222	49.47 ug/L		90
78)	1,2,4-Trichlorobenzene	10.61	180	782564	55.05 ug/L		97
79)	Naphthalene	10.92	128	1355615	56.02 ug/L		98
80)	Hexachloro-1,3-butadiene	10.57	225	577771	54.96 ug/L		99
81)	1,2,3-Trichlorobenzene	11.11	180	708893	55.55 ug/L		96
82)	1-methylnaphthalene	12.13	142	607790	55.18 ug/L		97
83)	2-methylnaphthalene	11.96	142	802927m	56.83 ug/L		

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

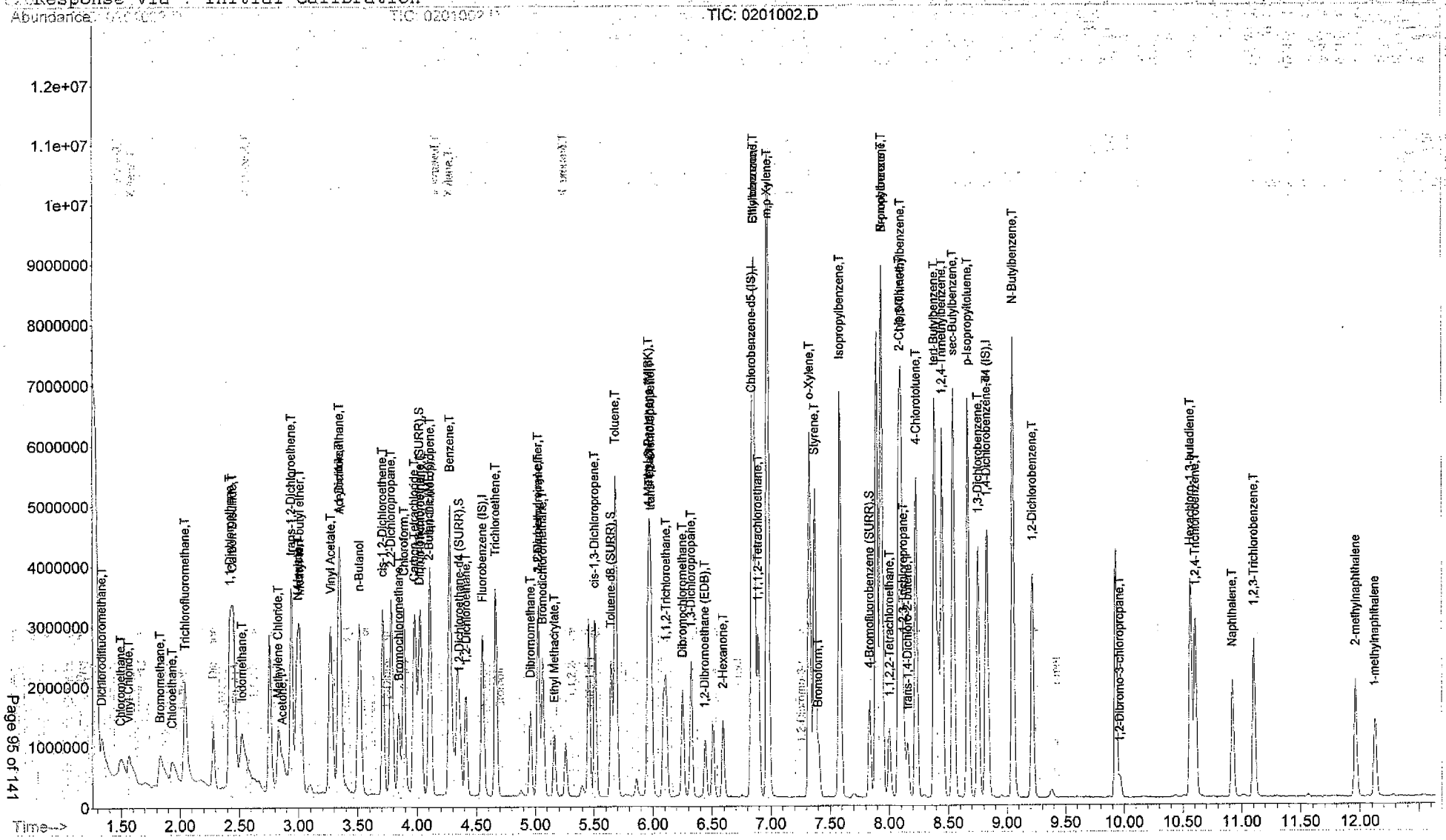
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\0201002.D
Acq On : 20 Oct 2016 8:45 am
Sample : lcs 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 20 9:37 2016

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

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\0301003.D Vial: 3
Acq On : 20 Oct 2016 9:03 am Operator: GJD
Sample : lcsd 50ppb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 20 9:38 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1308679	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	846667	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	339852	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	329546	44.02 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery =	88.04%	
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	374350	44.25 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery =	88.50%	
42) Toluene-d8 (SURR)	5.65	98	1208340	47.79 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery =	95.58%	
62) 4-Bromofluorobenzene (SURR	7.84	95	530256	51.59 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery =	103.18%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.34	85	1586249m	41.73 ug/L		
3) Chloromethane	1.51	50	1386733m	52.31 ug/L		
4) Vinyl Chloride	1.56	62	1211354m	51.00 ug/L		
5) Bromomethane	1.84	94	1062411m	49.00 ug/L		
6) Chloroethane	1.93	64	723109m	49.69 ug/L		
7) Acrolein	3.00	56	965778	48.36 ug/L	#	99
8) Trichlorofluoromethane	2.04	101	2074687m	46.46 ug/L		
9) Acetone	2.88	43	271645	116.90 ug/L		96
10) 1,1-Dichloroethene	2.41	61	1853505m	50.30 ug/L		
11) Acrylonitrile	3.34	53	1884867	48.28 ug/L		98
12) Iodomethane	2.52	142	1521688m	49.24 ug/L		
13) Methylene Chloride	2.83	84	869399m	44.12 ug/L		
14) Carbon Disulfide	2.44	76	3232080m	48.73 ug/L		
15) trans-1,2-Dichloroethene	2.94	96	902625	49.39 ug/L		97
16) Methyl-tert-butyl ether	3.02	73	1386011	49.21 ug/L		96
17) 1,1-Dichloroethane	3.35	63	1871850	48.92 ug/L		99
18) Vinyl Acetate	3.27	43	1299860	48.87 ug/L	#	100
19) N-Hexane	3.00	57	1802590	49.37 ug/L		100
20) n-Butanol	3.51	57	670551	53.19 ug/L		97
21) 2-Butanone (MEK)	4.10	43	441138	133.89 ug/L		98
22) cis-1,2-Dichloroethene	3.71	61	1608332	48.93 ug/L		96
23) Bromochloromethane	3.85	128	305567	47.76 ug/L		93
24) Chloroform	3.89	83	1873511	46.97 ug/L		99
25) 2,2-Dichloropropane	3.78	77	1990543	48.87 ug/L		97
28) 1,2-Dichloroethane	4.41	62	1178426	47.30 ug/L		97
29) 1,1,1-Trichloroethane	4.03	97	1758659	48.02 ug/L		99
30) 1,1-Dichloropropene	4.11	75	1616069	50.68 ug/L		98
31) Carbon Tetrachloride	3.99	117	1527921	44.72 ug/L		97
32) Benzene	4.28	78	3697578	49.94 ug/L		99
33) Dibromomethane	4.95	93	488662	47.79 ug/L		99
34) 1,2-Dichloropropane	5.03	63	956687	48.97 ug/L		95
35) Trichloroethene	4.66	95	1030085	49.52 ug/L		99
36) Bromodichloromethane	5.06	83	1298802	47.11 ug/L		98
37) 2-Chloroethyl-vinyl-ether	5.03	63	956687	195.88 ug/L	#	98
38) cis-1,3-Dichloropropene	5.51	75	1491485	50.29 ug/L		98
39) 4-Methyl-2-Pentanone (MIBK	5.95	43	1095686	131.81 ug/L		99
40) trans-1,3-Dichloropropene	5.99	75	1079587	47.68 ug/L		98
41) 1,1,2-Trichloroethane	6.11	83	433408	47.18 ug/L		99
43) Toluene	5.68	91	3422494	50.69 ug/L		98
44) Ethyl Methacrylate	5.17	69	342811	55.79 ug/L		91
45) 1,3-Dichloropropane	6.32	76	1102291	50.78 ug/L		98
46) 2-Hexanone	6.59	43	814576	133.08 ug/L		96
48) Dibromochloromethane	6.25	129	755567	53.08 ug/L		98
49) 1,2-Dibromoethane (EDB)	6.44	107	551129	53.35 ug/L		99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\0301003.D Vial: 3
Acq On : 20 Oct 2016 9:03 am Operator: GJD
Sample : lcsd 50ppb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 20 9:38 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	Tetrachloroethene	5.97	166	903265	47.71 ug/L		98
51)	1,1,1,2-Tetrachloroethane	6.90	131	692075	53.79 ug/L		99
52)	Chlorobenzene	6.85	112	1979686	51.88 ug/L		98
53)	Ethylbenzene	6.85	91	3929178	50.65 ug/L		97
54)	m,p-Xylene	6.97	91	6041187	101.35 ug/L		96
55)	Bromoform	7.41	173	309199	51.02 ug/L		99
56)	Styrene	7.37	104	2207768	53.52 ug/L		98
57)	1,1,2,2-Tetrachloroethane	8.00	83	585002	52.64 ug/L		97
58)	o-Xylene	7.33	106	1504307	54.72 ug/L		96
59)	trans-1,4-Dichloro-2-buten	8.16	53	193400	53.67 ug/L		98
60)	1,2,3-Trichloropropane	8.13	75	625897	54.34 ug/L		97
61)	Isopropylbenzene	7.58	105	4234784	52.08 ug/L		98
63)	Bromobenzene	7.93	156	676837	50.71 ug/L		91
64)	N-propylbenzene	7.94	91	4961638	52.16 ug/L		99
65)	2-Chlorotoluene	8.08	91	3332811	51.36 ug/L		99
66)	4-Chlorotoluene	8.23	126	811291	52.60 ug/L		99
68)	1,3,5-Trimethylbenzene	8.11	105	3014297	53.10 ug/L		98
69)	tert-Butylbenzene	8.38	119	3344410	55.91 ug/L		97
70)	1,2,4-Trimethylbenzene	8.45	105	3032305	53.08 ug/L	#	100
71)	sec-Butylbenzene	8.54	105	4619824	55.57 ug/L	#	96
72)	1,3-Dichlorobenzene	8.75	146	1456019	54.02 ug/L		98
73)	1,4-Dichlorobenzene	8.83	148	870841	52.77 ug/L		99
74)	p-Isopropyltoluene	8.67	119	3670115	55.49 ug/L		99
75)	1,2-Dichlorobenzene	9.22	146	1284171	55.08 ug/L		99
76)	N-Butylbenzene	9.05	91	4026416	54.05 ug/L		96
77)	1,2-Dibromo-3-chloropropan	9.97	155	61181	51.08 ug/L		96
78)	1,2,4-Trichlorobenzene	10.61	180	787817	54.46 ug/L		99
79)	Naphthalene	10.92	128	1456742	59.16 ug/L		98
80)	Hexachloro-1,3-butadiene	10.57	225	587713	54.93 ug/L		99
81)	1,2,3-Trichlorobenzene	11.11	180	748836	57.66 ug/L		98
82)	1-methylnaphthalene	12.12	142	622660	55.54 ug/L		98
83)	2-methylnaphthalene	11.96	142	808865m	56.26 ug/L		

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

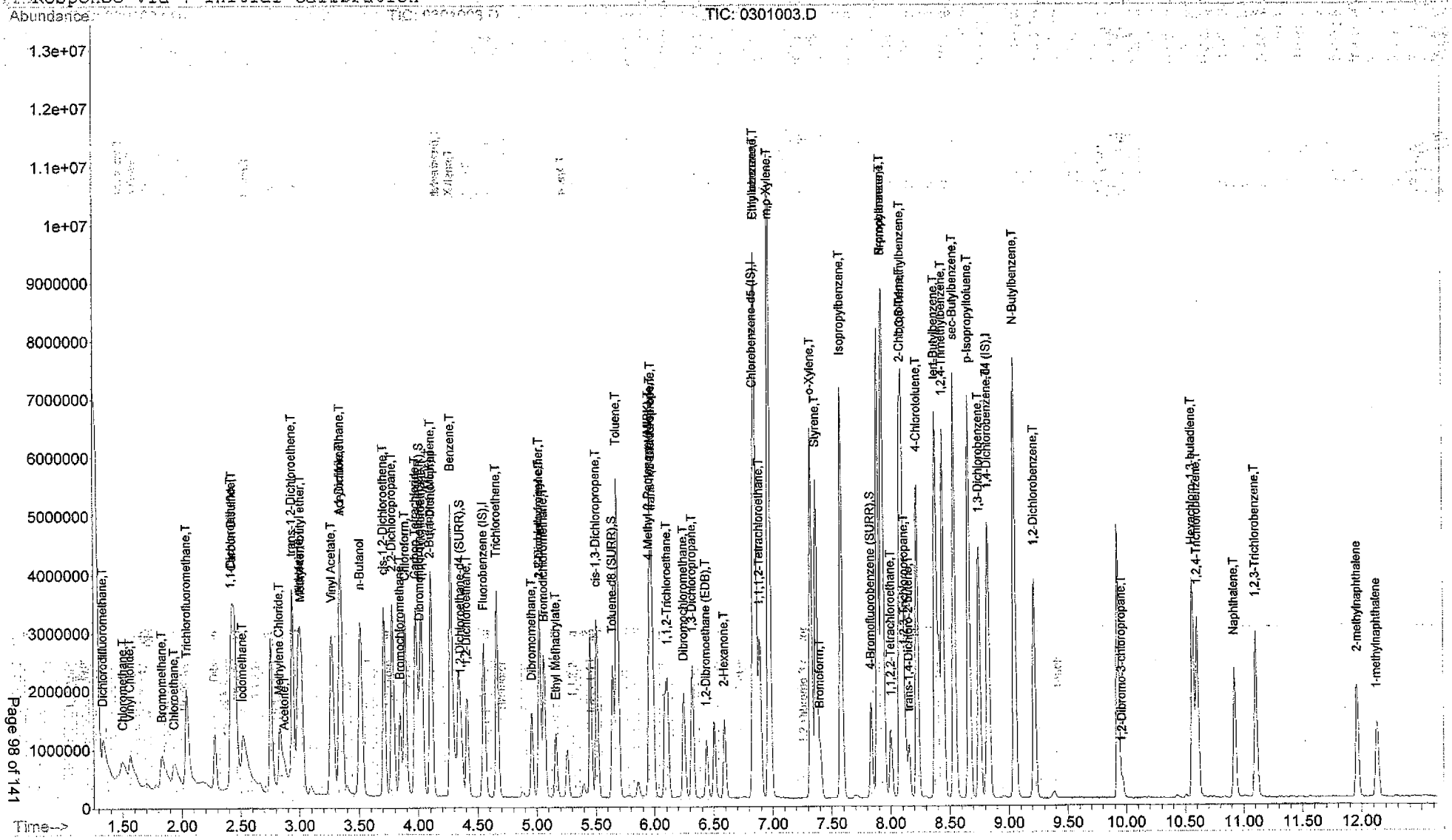
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\0301003.D
Acq On : 20 Oct 2016 9:03 am
Sample : lcsd 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 20 9:38 2016

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

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3201032.D Vial: 32
Acq On : 20 Oct 2016 6:25 pm Operator: GJD
Sample : 16-21548 Inst : GC/MS #2
Misc : a Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 24 18:03 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.56	96	1528816	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	947606	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	422259	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	394330	45.09 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 90.18%		
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	476278	48.19 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 96.38%		
42) Toluene-d8 (SURR)	5.65	98	1270031	43.00 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 86.00%		
62) 4-Bromofluorobenzene (SURR	7.84	95	532362	46.28 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 92.56%		

Target Compounds					Qvalue
32) Benzene	4.28	78	146818	1.70 ug/L	98
53) Ethylbenzene	6.86	91	158201	1.82 ug/L #	91
54) m,p-Xylene	6.97	91	330161	4.95 ug/L	97
58) o-Xylene	7.33	106	23143	0.75 ug/L #	79
61) Isopropylbenzene	7.58	105	1056648	11.61 ug/L	97
64) N-propylbenzene	7.94	91	1787127	16.79 ug/L	98
70) 1,2,4-Trimethylbenzene	8.45	105	40346	0.57 ug/L #	90
71) sec-Butylbenzene	8.54	105	182030	1.76 ug/L #	87
74) p-Isopropyltoluene	8.63	119	72123	0.88 ug/L	95
76) N-Butylbenzene	9.05	91	149781	1.62 ug/L	97
79) Naphthalene	10.92	128	1222530	39.96 ug/L	98
82) 1-methylnaphthalene	12.13	142	76249	5.47 ug/L	98
83) 2-methylnaphthalene	11.96	142	34210	1.92 ug/L	93

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

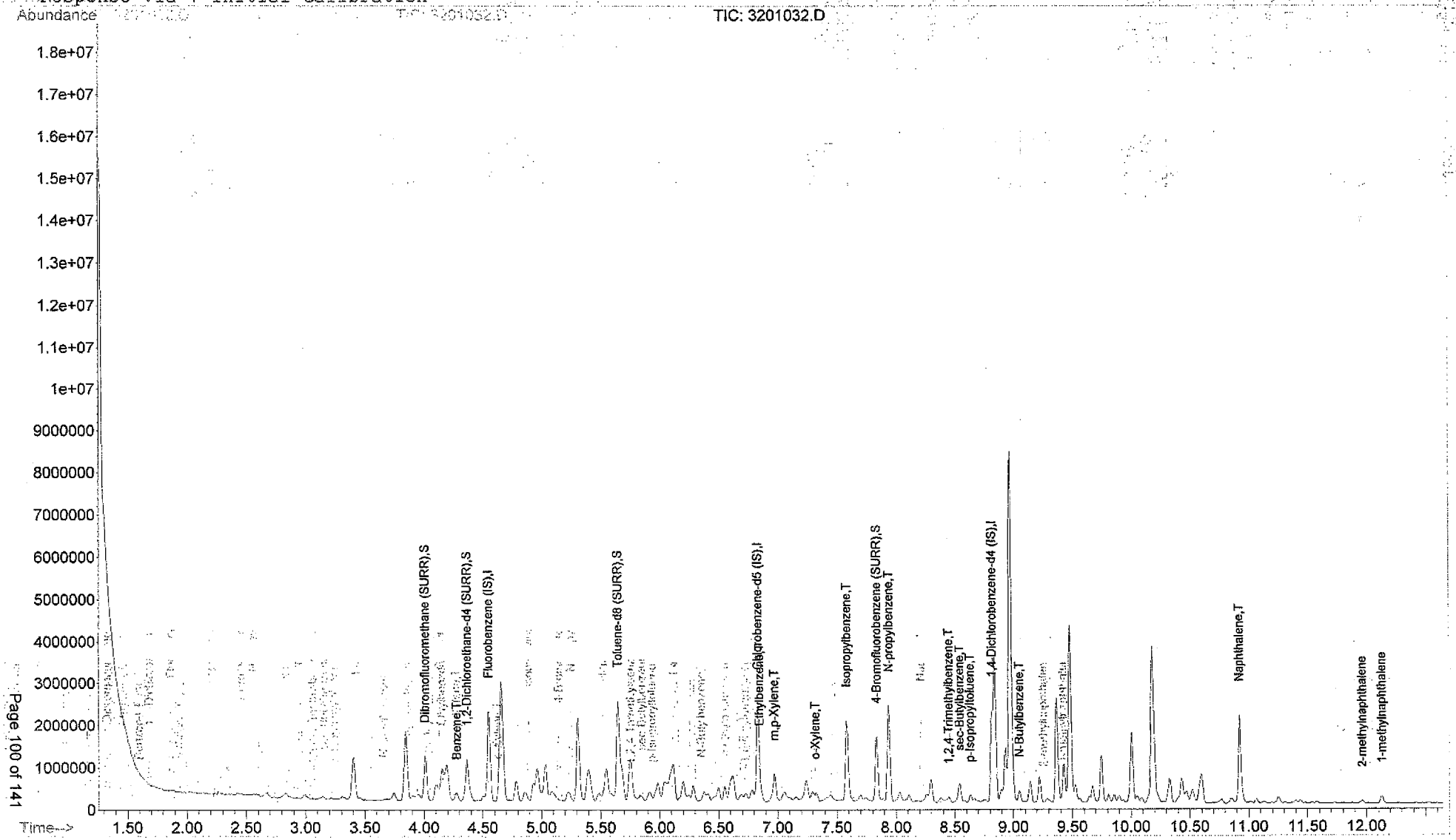
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\3201032.D
Acq On : 20 Oct 2016 6:25 pm
Sample : 16-21548
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:03 2016

Vial: 32
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3301033.D Vial: 33
Acq On : 20 Oct 2016 6:44 pm Operator: GJD
Sample : 16-21548ms Inst : GC/MS #2
Misc : b Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 24 18:04 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1504386	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	949314	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	405759	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	339522	39.45 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 78.90%		
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	398684	40.99 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 81.98%		
42) Toluene-d8 (SURR)	5.65	98	1275954	43.90 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 87.80%		
62) 4-Bromofluorobenzene (SURR	7.83	95	557767	48.40 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 96.80%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.33	85	2190079m	50.12 ug/L	
3) Chloromethane	1.51	50	1310698m	43.01 ug/L	
4) Vinyl Chloride	1.56	62	1183715m	43.35 ug/L	
5) Bromomethane	1.83	94	1111371m	44.59 ug/L	
6) Chloroethane	1.93	64	693712m	41.47 ug/L	
7) Acrolein	2.99	56	1062922	46.30 ug/L #	98
8) Trichlorofluoromethane	2.04	101	2218979m	43.22 ug/L	
9) Acetone	2.87	43	345079	129.18 ug/L #	96
10) 1,1-Dichloroethene	2.42	61	1826860m	43.13 ug/L	
11) Acrylonitrile	3.34	53	1947474	43.40 ug/L	99
12) Iodomethane	2.51	142	1592975m	44.84 ug/L	
13) Methylene Chloride	2.83	84	945424m	41.74 ug/L	
14) Carbon Disulfide	2.43	76	3252738m	42.66 ug/L	
15) trans-1,2-Dichloroethene	2.94	96	951103	45.27 ug/L	99
16) Methyl-tert-butyl ether	3.02	73	1575832	48.67 ug/L	98
17) 1,1-Dichloroethane	3.36	63	1978859	44.99 ug/L	99
18) Vinyl Acetate	3.27	43	1346521	44.04 ug/L #	100
19) N-Hexane	2.99	57	2030533	48.38 ug/L	99
20) n-Butanol	3.51	57	707005	48.79 ug/L	100
21) 2-Butanone (MEK)	4.09	43	533152	140.77 ug/L #	94
22) cis-1,2-Dichloroethene	3.71	61	1687747	44.66 ug/L	97
23) Bromochloromethane	3.85	128	345296	46.95 ug/L #	85
24) Chloroform	3.89	83	1960351	42.75 ug/L	99
25) 2,2-Dichloropropane	3.79	77	1983486	42.36 ug/L	97
28) 1,2-Dichloroethane	4.41	62	1263115	44.10 ug/L #	93
29) 1,1,1-Trichloroethane	4.03	97	1799662	42.74 ug/L	99
30) 1,1-Dichloropropene	4.11	75	1649855	45.01 ug/L	99
31) Carbon Tetrachloride	3.98	117	1642225	41.81 ug/L	99
32) Benzene	4.27	78	3933765	46.21 ug/L	98
33) Dibromomethane	4.96	93	518680	44.12 ug/L	98
34) 1,2-Dichloropropane	5.02	63	1009527	44.95 ug/L	94
35) Trichloroethene	4.67	95	991123	41.45 ug/L	98
36) Bromodichloromethane	5.07	83	1358383	42.87 ug/L	97
37) 2-Chloroethyl-vinyl-ether	5.02	63	1009527	179.81 ug/L #	96
38) cis-1,3-Dichloropropene	5.51	75	1622807	47.60 ug/L	94
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	1270384	132.94 ug/L	97
40) trans-1,3-Dichloropropene	5.99	75	1161876	44.64 ug/L	96
41) 1,1,2-Trichloroethane	6.12	83	718289	68.02 ug/L #	69
43) Toluene	5.69	91	3538771	45.59 ug/L	97
44) Ethyl Methacrylate	5.16	69	383300	54.26 ug/L	88
45) 1,3-Dichloropropane	6.32	76	1186840	47.56 ug/L	97
46) 2-Hexanone	6.60	43	903208	128.36 ug/L	98
48) Dibromochloromethane	6.25	129	799360	50.08 ug/L	99
49) 1,2-Dibromoethane (EDB)	6.44	107	620089	53.54 ug/L	94

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3301033.D
Acq On : 20 Oct 2016 6:44 pm
Sample : 16-21548ms
Misc : b
MS Integration Params: rteint.p
Quant Time: Oct 24 18:04 2016

Vial: 33
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	Tetrachloroethene	5.97	166	842043	39.66 ug/L		99
51)	1,1,1,2-Tetrachloroethane	6.90	131	733859	50.87 ug/L		98
52)	Chlorobenzene	6.85	112	2022550	47.27 ug/L		98
53)	Ethylbenzene	6.86	91	4170359	47.95 ug/L		97
54)	m,p-Xylene	6.98	91	6332116	94.75 ug/L		96
55)	Bromoform	7.40	173	342113	50.35 ug/L		98
56)	Styrene	7.38	104	2270869	49.10 ug/L		98
57)	1,1,2,2-Tetrachloroethane	8.00	83	690666	55.42 ug/L		100
58)	o-Xylene	7.32	106	1513083	49.09 ug/L		97
59)	trans-1,4-Dichloro-2-buten	8.15	53	213224	52.78 ug/L		94
60)	1,2,3-Trichloropropane	8.13	75	745637	57.74 ug/L	#	10
61)	Isopropylbenzene	7.59	105	5081915	55.75 ug/L		99
63)	Bromobenzene	7.93	156	701969	46.91 ug/L		95
64)	N-propylbenzene	7.94	91	6368696	59.72 ug/L		100
65)	2-Chlorotoluene	8.08	91	3397194	46.69 ug/L		99
66)	4-Chlorotoluene	8.23	126	835338	48.30 ug/L		94
68)	1,3,5-Trimethylbenzene	8.10	105	3066258	45.24 ug/L		97
69)	tert-Butylbenzene	8.39	119	3489556	48.86 ug/L		97
70)	1,2,4-Trimethylbenzene	8.45	105	3173259	46.52 ug/L	#	98
71)	sec-Butylbenzene	8.54	105	4850435	48.86 ug/L	#	97
72)	1,3-Dichlorobenzene	8.75	146	1455697	45.23 ug/L		97
73)	1,4-Dichlorobenzene	8.83	148	893002	45.33 ug/L		99
74)	p-Isopropyltoluene	8.67	119	3749594	47.48 ug/L		99
75)	1,2-Dichlorobenzene	9.22	146	1300464	46.72 ug/L		99
76)	N-Butylbenzene	9.05	91	4082098	45.89 ug/L		98
77)	1,2-Dibromo-3-chloropropan	9.97	155	71277	49.84 ug/L		94
78)	1,2,4-Trichlorobenzene	10.61	180	754589	43.69 ug/L	#	96
79)	Naphthalene	10.93	128	2532367	86.13 ug/L		99
80)	Hexachloro-1,3-butadiene	10.57	225	542255	42.45 ug/L		99
81)	1,2,3-Trichlorobenzene	11.10	180	722430	46.59 ug/L		97
82)	1-methylnaphthalene	12.13	142	766726	57.29 ug/L		97
83)	2-methylnaphthalene	11.97	142	915223	53.32 ug/L		100

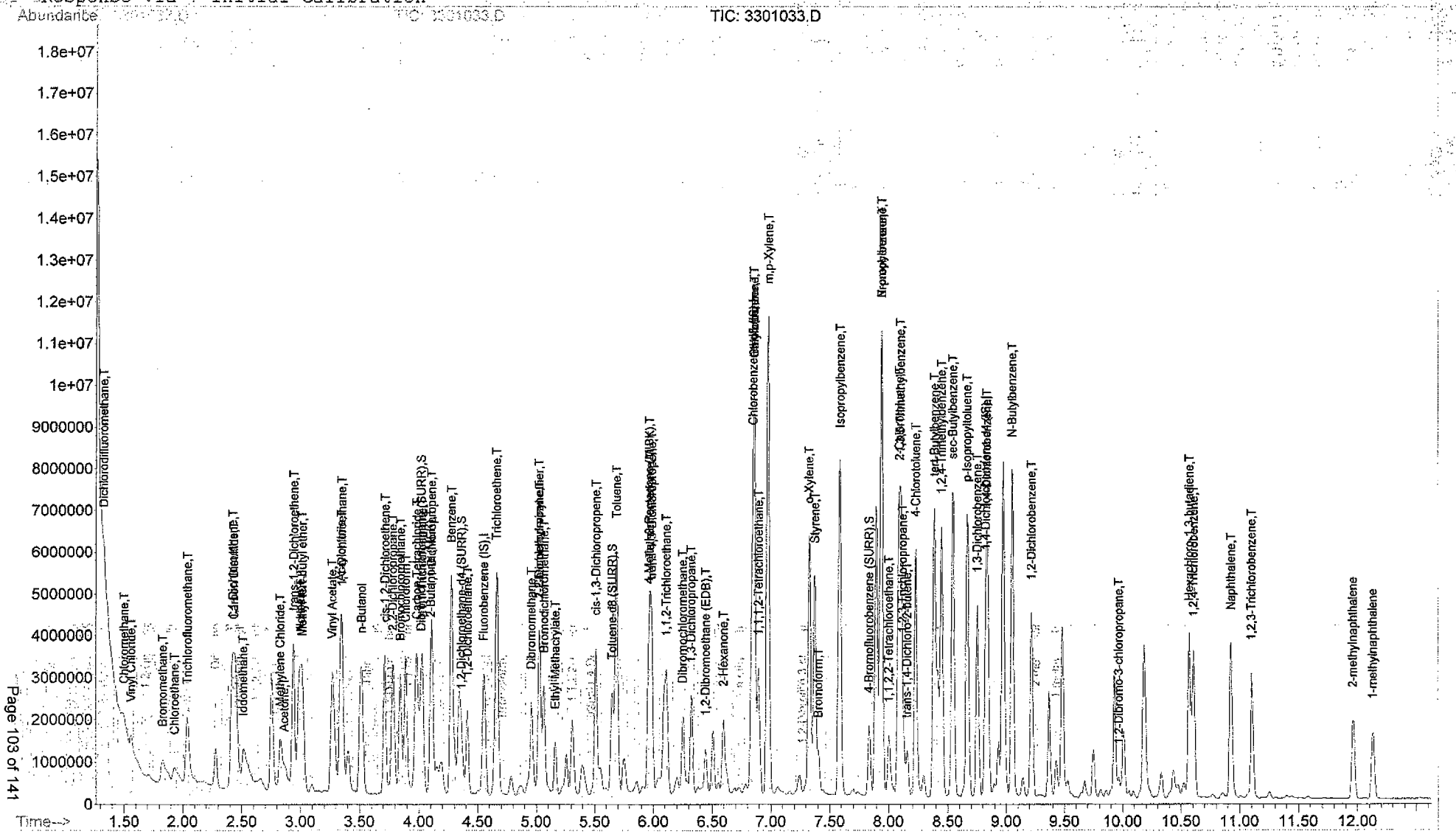
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\3301033.D
Acq On : 20 Oct 2016 6:44 pm
Sample : 16-21548ms
Misc : b
MS Integration Params: rteint.p
Quant Time: Oct 24 18:04 2016

Vial: 33
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00
Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3401034.D
Acq On : 20 Oct 2016 7:03 pm
Sample : 16-21548msd
Misc : c
MS Integration Params: rteint.p
Quant Time: Oct 24 18:05 2016

Vial: 34
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1533786	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	969382	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	395619	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	347297	39.58	ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 79.16%			
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	395295	39.87	ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 79.74%			
42) Toluene-d8 (SURR)	5.65	98	1268932	42.82	ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 85.64%			
62) 4-Bromofluorobenzene (SURR	7.84	95	541274	46.00	ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 92.00%			

Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.33	85	2222619m	49.89	ug/L		
3) Chloromethane	1.50	50	1418264m	45.65	ug/L		
4) Vinyl Chloride	1.56	62	1146337m	41.18	ug/L		
5) Bromomethane	1.83	94	1111148m	43.73	ug/L		
6) Chloroethane	1.93	64	702324m	41.18	ug/L		
7) Acrolein	3.00	56	1084376	46.33	ug/L	#	98
8) Trichlorofluoromethane	2.04	101	2226462m	42.54	ug/L		
9) Acetone	2.87	43	344139	126.36	ug/L	#	97
10) 1,1-Dichloroethene	2.41	61	1867451m	43.24	ug/L		
11) Acrylonitrile	3.34	53	1950778	42.64	ug/L		99
12) Iodomethane	2.52	142	1619578m	44.71	ug/L		
13) Methylene Chloride	2.83	84	1010041m	43.74	ug/L		
14) Carbon Disulfide	2.43	76	3286302m	42.27	ug/L		
15) trans-1,2-Dichloroethene	2.94	96	962781	44.95	ug/L		98
16) Methyl-tert-butyl ether	3.02	73	1596467	48.37	ug/L		99
17) 1,1-Dichloroethane	3.35	63	2009594	44.81	ug/L		99
18) Vinyl Acetate	3.27	43	1410277	45.24	ug/L	#	100
19) N-Hexane	2.99	57	2015521	47.10	ug/L		100
20) n-Butanol	3.51	57	699432	47.34	ug/L		99
21) 2-Butanone (MEK)	4.10	43	542585	140.51	ug/L	#	94
22) cis-1,2-Dichloroethene	3.71	61	1692450	43.93	ug/L		96
23) Bromochloromethane	3.85	128	346642	46.23	ug/L	#	85
24) Chloroform	3.89	83	1970090	42.14	ug/L		99
25) 2,2-Dichloropropane	3.78	77	1997264	41.84	ug/L		98
28) 1,2-Dichloroethane	4.42	62	1288653	44.13	ug/L	#	95
29) 1,1,1-Trichloroethane	4.03	97	1812664	42.23	ug/L		99
30) 1,1-Dichloropropene	4.11	75	1693533	45.32	ug/L		99
31) Carbon Tetrachloride	3.99	117	1790383	44.71	ug/L		93
32) Benzene	4.28	78	3977251	45.83	ug/L		98
33) Dibromomethane	4.96	93	520002	43.39	ug/L		96
34) 1,2-Dichloropropane	5.03	63	1017591	44.44	ug/L	#	93
35) Trichloroethene	4.66	95	1000457	41.04	ug/L		98
36) Bromodichloromethane	5.06	83	1377365	42.63	ug/L		98
37) 2-Chloroethyl-vinyl-ether	5.03	63	1017591	177.77	ug/L	#	97
38) cis-1,3-Dichloropropene	5.52	75	1635871	47.06	ug/L		95
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	1310939	134.56	ug/L		98
40) trans-1,3-Dichloropropene	5.99	75	1167302	43.99	ug/L		98
41) 1,1,2-Trichloroethane	6.11	83	754059	70.03	ug/L	#	67
43) Toluene	5.69	91	3610101	45.62	ug/L		98
44) Ethyl Methacrylate	5.17	69	399452	55.46	ug/L		82
45) 1,3-Dichloropropane	6.32	76	1208785	47.51	ug/L		98
46) 2-Hexanone	6.59	43	894301	124.66	ug/L		94
48) Dibromochloromethane	6.25	129	792095	48.60	ug/L		100
49) 1,2-Dibromoethane (EDB)	6.45	107	616014	52.09	ug/L		90

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3401034.D Vial: 34
Acq On : 20 Oct 2016 7:03 pm Operator: GJD
Sample : 16-21548msd Inst : GC/MS #2
Misc : c Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 24 18:05 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.97	166	861855	39.76 ug/L		99
51) 1,1,1,2-Tetrachloroethane	6.90	131	714295	48.49 ug/L		98
52) Chlorobenzene	6.85	112	2055721	47.05 ug/L		97
53) Ethylbenzene	6.86	91	4220500	47.52 ug/L		97
54) m,p-Xylene	6.98	91	6529283	95.68 ug/L		98
55) Bromoform	7.41	173	353778	50.99 ug/L		100
56) Styrene	7.37	104	2313119	48.98 ug/L		97
57) 1,1,2,2-Tetrachloroethane	8.00	83	689347	54.17 ug/L		98
58) o-Xylene	7.33	106	1483155	47.12 ug/L		99
59) trans-1,4-Dichloro-2-buten	8.16	53	214722	52.05 ug/L		94
60) 1,2,3-Trichloropropane	8.13	75	730481	55.40 ug/L		91
61) Isopropylbenzene	7.58	105	5196807	55.83 ug/L		99
63) Bromobenzene	7.93	156	691052	45.23 ug/L		91
64) N-propylbenzene	7.94	91	6308504	57.93 ug/L		100
65) 2-Chlorotoluene	8.08	91	3383976	45.55 ug/L		98
66) 4-Chlorotoluene	8.23	126	862211	48.82 ug/L		94
68) 1,3,5-Trimethylbenzene	8.11	105	3092584	46.80 ug/L		98
69) tert-Butylbenzene	8.39	119	3424601	49.18 ug/L		98
70) 1,2,4-Trimethylbenzene	8.45	105	3146460	47.31 ug/L	#	98
71) sec-Butylbenzene	8.54	105	4926799	50.90 ug/L	#	96
72) 1,3-Dichlorobenzene	8.75	146	1492761	47.57 ug/L		98
73) 1,4-Dichlorobenzene	8.83	148	890257	46.35 ug/L		99
74) p-Isopropyltoluene	8.67	119	3759768	48.83 ug/L		98
75) 1,2-Dichlorobenzene	9.22	146	1359260	50.08 ug/L		99
76) N-Butylbenzene	9.05	91	4063811	46.86 ug/L		98
77) 1,2-Dibromo-3-chloropropan	9.97	155	72886	52.27 ug/L		95
78) 1,2,4-Trichlorobenzene	10.61	180	810477	48.12 ug/L	#	95
79) Naphthalene	10.93	128	2494886m	87.03 ug/L		
80) Hexachloro-1,3-butadiene	10.57	225	545097	43.77 ug/L		99
81) 1,2,3-Trichlorobenzene	11.11	180	728993	48.22 ug/L		98
82) 1-methylnaphthalene	12.13	142	823996	63.14 ug/L		99
83) 2-methylnaphthalene	11.96	142	1044394	62.40 ug/L		98

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

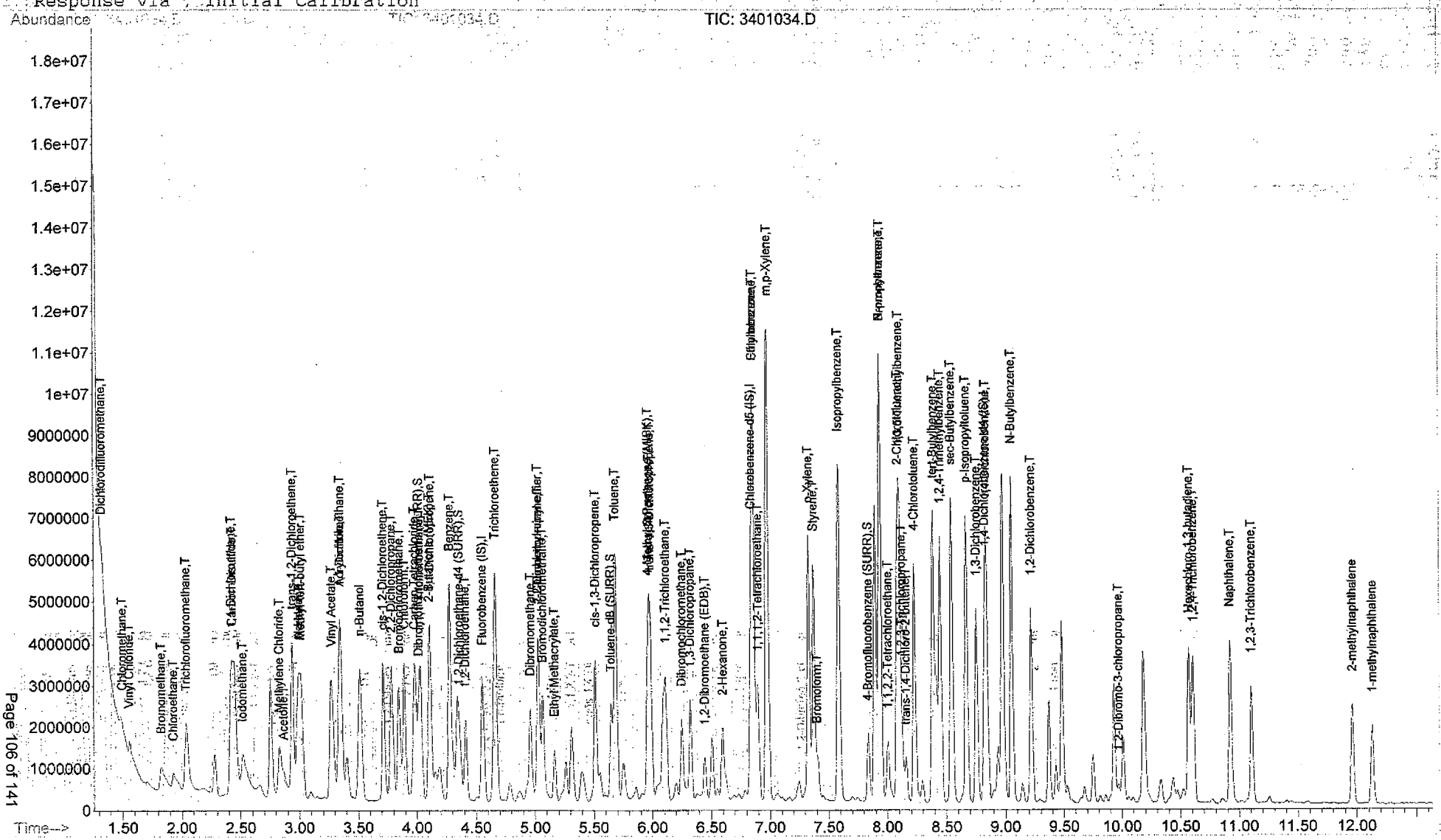
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\3401034.D
Acq On : 20 Oct 2016 7:03 pm
Sample : 16-21548msd
Misc : c
MS Integration Params: rteint.p
Quant Time: Oct 24 18:05 2016

Vial: 34
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4301043.D Vial: 43
Acq On : 20 Oct 2016 9:56 pm Operator: GJD
Sample : mb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 24 18:28 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1719325	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	1143736	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	488486	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	484109	49.22	ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 98.44%						
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	538718	48.47	ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 96.94%						
42) Toluene-d8 (SURR)	5.65	98	1456159	43.84	ug/L	0.00
Spiked Amount 50.000 Range 60 - 128 Recovery = 87.68%						
62) 4-Bromofluorobenzene (SURR	7.83	95	606359	43.67	ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 87.34%						

Target Compounds Qvalue

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

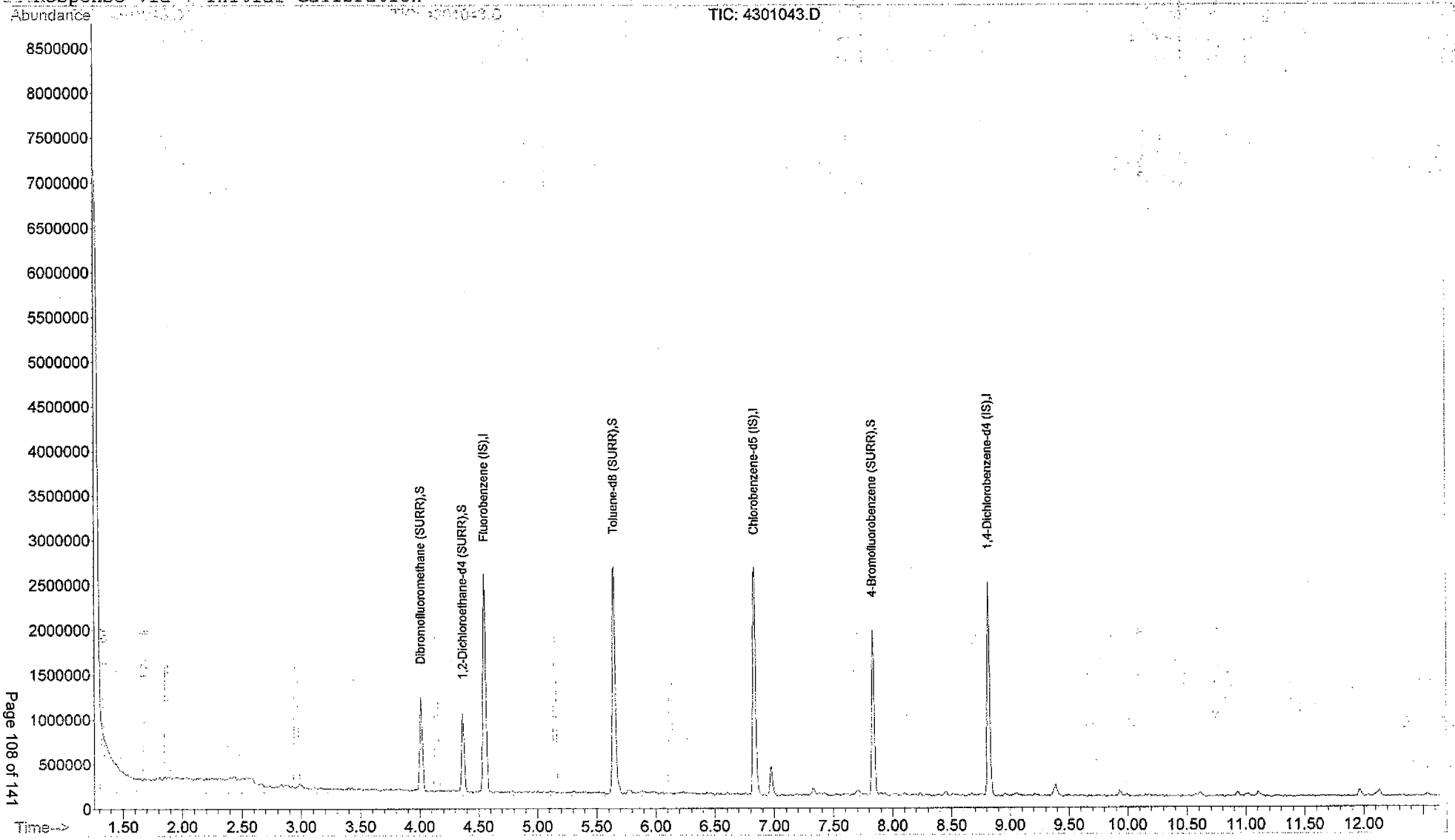
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\4301043.D
Acq On : 20 Oct 2016 9:56 pm
Sample : mb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 24 18:28 2016

Vial: 43
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4001040.D Vial: 40
Acq On : 20 Oct 2016 8:58 pm Operator: GJD
Sample : lcs 50ppb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 24 18:09 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1570504	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	1022516	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	405398	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	357351	39.78 ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 79.56%					
27) 1,2-Dichloroethane-d4 (SUR	4.36	65	411066	40.49 ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 80.98%					
42) Toluene-d8 (SURR)	5.65	98	1347070	44.40 ug/L	0.00
Spiked Amount 50.000 Range 60 - 128 Recovery = 88.80%					
62) 4-Bromofluorobenzene (SURR	7.84	95	576326	46.43 ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 92.86%					

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.34	85	2330081m	51.08	ug/L	
3) Chloromethane	1.52	50	1436488m	45.16	ug/L	
4) Vinyl Chloride	1.56	62	1222274m	42.88	ug/L	
5) Bromomethane	1.83	94	1138661m	43.76	ug/L	
6) Chloroethane	1.93	64	778373m	44.57	ug/L	
7) Acrolein	3.00	56	1063026	44.35	ug/L #	98
8) Trichlorofluoromethane	2.04	101	2321917m	43.32	ug/L	
9) Acetone	2.87	43	324813	116.48	ug/L #	94
10) 1,1-Dichloroethene	2.41	61	1934268m	43.74	ug/L	
11) Acrylonitrile	3.34	53	1994976	42.59	ug/L	98
12) Iodomethane	2.52	142	1752135m	47.24	ug/L	
13) Methylene Chloride	2.84	84	1017213m	43.02	ug/L	
14) Carbon Disulfide	2.43	76	3395895m	42.66	ug/L	
15) trans-1,2-Dichloroethene	2.94	96	1001482	45.66	ug/L	99
16) Methyl-tert-butyl ether	3.02	73	1658825	49.08	ug/L	99
17) 1,1-Dichloroethane	3.36	63	2042994	44.49	ug/L	99
18) Vinyl Acetate	3.27	43	1496073	46.87	ug/L #	100
19) N-Hexane	2.99	57	2066836	47.17	ug/L	98
20) n-Butanol	3.51	57	766165	50.64	ug/L	98
21) 2-Butanone (MEK)	4.09	43	509584	128.88	ug/L #	98
22) cis-1,2-Dichloroethene	3.71	61	1837381	46.58	ug/L	98
23) Bromochloromethane	3.85	128	320799	41.79	ug/L	83
24) Chloroform	3.89	83	2116385	44.21	ug/L	100
25) 2,2-Dichloropropane	3.78	77	2094781	42.85	ug/L	99
28) 1,2-Dichloroethane	4.41	62	1364070	45.62	ug/L	97
29) 1,1,1-Trichloroethane	4.03	97	1908211	43.41	ug/L	99
30) 1,1-Dichloropropene	4.11	75	1742662	45.54	ug/L	98
31) Carbon Tetrachloride	3.99	117	1910058	46.58	ug/L	94
32) Benzene	4.28	78	4077004	45.88	ug/L	99
33) Dibromomethane	4.96	93	576151	46.95	ug/L	99
34) 1,2-Dichloropropane	5.03	63	1103762	47.08	ug/L	95
35) Trichloroethene	4.66	95	1134109	45.43	ug/L	99
36) Bromodichloromethane	5.06	83	1494993	45.19	ug/L	98
37) 2-Chloroethyl-vinyl-ether	5.03	63	1103762	188.31	ug/L #	99
38) cis-1,3-Dichloropropene	5.51	75	1780259	50.02	ug/L	97
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	1310834	131.40	ug/L	96
40) trans-1,3-Dichloropropene	5.99	75	1239168	45.61	ug/L	98
41) 1,1,2-Trichloroethane	6.11	83	540994	49.07	ug/L	95
43) Toluene	5.69	91	3759157	46.39	ug/L	97
44) Ethyl Methacrylate	5.16	69	419161	56.84	ug/L	89
45) 1,3-Dichloropropane	6.32	76	1267085	48.64	ug/L	97
46) 2-Hexanone	6.59	43	968471	131.84	ug/L	97
48) Dibromochloromethane	6.25	129	881512	51.27	ug/L	97
49) 1,2-Dibromoethane (EDB)	6.45	107	650066	52.11	ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4001040.D
Acq On : 20 Oct 2016 8:58 pm
Sample : lcs 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 24 18:09 2016

Vial: 40
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.97	166	928881	40.62 ug/L		97
51) 1,1,1,2-Tetrachloroethane	6.90	131	778722	50.12 ug/L		99
52) Chlorobenzene	6.85	112	2219327	48.16 ug/L		97
53) Ethylbenzene	6.86	91	4328161	46.20 ug/L		98
54) m,p-Xylene	6.98	91	6566140	91.22 ug/L		96
55) Bromoform	7.41	173	363955	49.73 ug/L	#	99
56) Styrene	7.37	104	2365069	47.48 ug/L		99
57) 1,1,2,2-Tetrachloroethane	8.00	83	701725	52.28 ug/L		99
58) o-Xylene	7.33	106	1622806	48.88 ug/L		97
59) trans-1,4-Dichloro-2-buten	8.16	53	227313	52.24 ug/L		96
60) 1,2,3-Trichloropropane	8.13	75	763397	54.88 ug/L		91
61) Isopropylbenzene	7.59	105	4677315	47.63 ug/L		99
63) Bromobenzene	7.93	156	749484	46.50 ug/L		94
64) N-propylbenzene	7.94	91	5308010	46.21 ug/L		99
65) 2-Chlorotoluene	8.08	91	3607723	46.03 ug/L		99
66) 4-Chlorotoluene	8.23	126	877571	47.11 ug/L		97
68) 1,3,5-Trimethylbenzene	8.10	105	3308107	48.85 ug/L		99
69) tert-Butylbenzene	8.39	119	3661946	51.32 ug/L		97
70) 1,2,4-Trimethylbenzene	8.45	105	3340251	49.02 ug/L	#	98
71) sec-Butylbenzene	8.54	105	5052486	50.94 ug/L	#	96
72) 1,3-Dichlorobenzene	8.75	146	1546418	48.10 ug/L		98
73) 1,4-Dichlorobenzene	8.83	148	933132	47.41 ug/L		100
74) p-Isopropyltoluene	8.67	119	3927639	49.78 ug/L		99
75) 1,2-Dichlorobenzene	9.22	146	1424153	51.21 ug/L		98
76) N-Butylbenzene	9.05	91	4300613	48.39 ug/L		97
77) 1,2-Dibromo-3-chloropropan	9.97	155	77465	54.22 ug/L		90
78) 1,2,4-Trichlorobenzene	10.61	180	835958	48.44 ug/L		99
79) Naphthalene	10.93	128	1689950	57.53 ug/L		98
80) Hexachloro-1,3-butadiene	10.57	225	643145	50.40 ug/L		99
81) 1,2,3-Trichlorobenzene	11.10	180	782106	50.48 ug/L		97
82) 1-methylnaphthalene	12.13	142	727218	54.38 ug/L		99
83) 2-methylnaphthalene	11.96	142	818675m	47.73 ug/L		

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

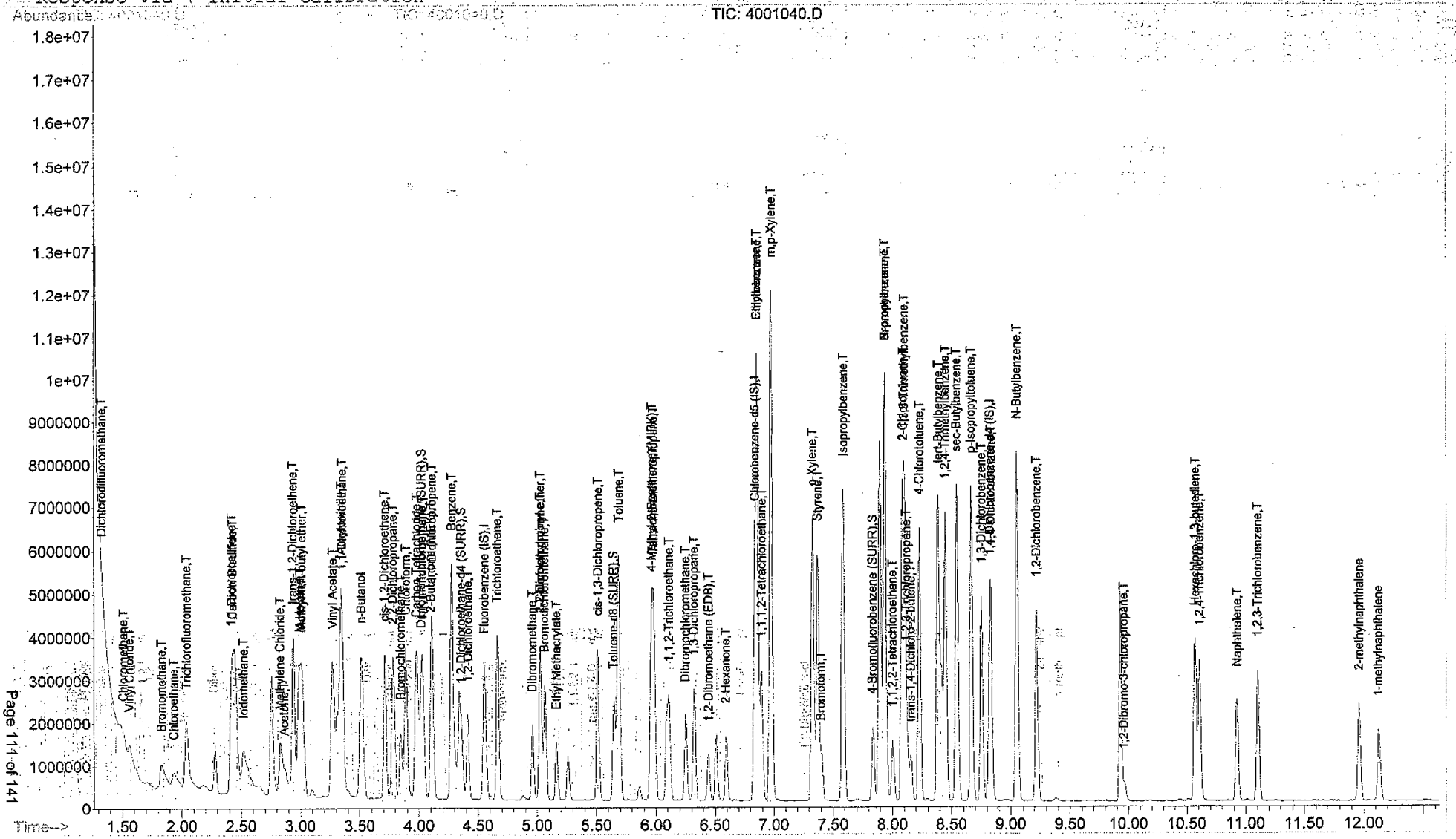
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\4001040.D
Acq On : 20 Oct 2016 8:58 pm
Sample : lcs 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 24 18:09 2016

Vial: 40
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4101041.D
Acq On : 20 Oct 2016 9:17 pm
Sample : lcsd 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 24 18:28 2016

Vial: 41
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1559808	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	1035489	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	396191	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	361819	40.55 ug/L	0.00
Spiked Amount 50.000 Range 69 - 137 Recovery = 81.10%					
27) 1,2-Dichloroethane-d4 (SUR	4.36	65	397631	39.43 ug/L	0.00
Spiked Amount 50.000 Range 67 - 144 Recovery = 78.86%					
42) Toluene-d8 (SURR)	5.65	98	1322075	43.87 ug/L	0.00
Spiked Amount 50.000 Range 60 - 128 Recovery = 87.74%					
62) 4-Bromofluorobenzene (SURR	7.84	95	563157	44.80 ug/L	0.00
Spiked Amount 50.000 Range 62 - 145 Recovery = 89.60%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.33	85	2334886m	51.54 ug/L	
3) Chloromethane	1.50	50	1505515m	47.65 ug/L	
4) Vinyl Chloride	1.56	62	1254016m	44.30 ug/L	
5) Bromomethane	1.82	94	1168000m	45.20 ug/L	
6) Chloroethane	1.93	64	747510m	43.09 ug/L	
7) Acrolein	3.00	56	1097794	46.12 ug/L	99
8) Trichlorofluoromethane	2.03	101	2398087m	45.05 ug/L	
9) Acetone	2.87	43	302586	109.25 ug/L	93
10) 1,1-Dichloroethene	2.41	61	2045727m	46.58 ug/L	
11) Acrylonitrile	3.34	53	2030204	43.63 ug/L	98
12) Iodomethane	2.52	142	1783800m	48.42 ug/L	
13) Methylene Chloride	2.83	84	1024756m	43.63 ug/L	
14) Carbon Disulfide	2.43	76	3518396m	44.50 ug/L	
15) trans-1,2-Dichloroethene	2.94	96	1017851	46.73 ug/L	98
16) Methyl-tert-butyl ether	3.02	73	1672564	49.83 ug/L	99
17) 1,1-Dichloroethane	3.35	63	2131007	46.72 ug/L	99
18) Vinyl Acetate	3.27	43	1437539	45.34 ug/L #	100
19) N-Hexane	3.00	57	2091677	48.06 ug/L	99
20) n-Butanol	3.51	57	750620	49.96 ug/L	99
21) 2-Butanone (MEK)	4.09	43	529196	134.76 ug/L	97
22) cis-1,2-Dichloroethene	3.71	61	1831527	46.75 ug/L	96
23) Bromochloromethane	3.85	128	334749	43.90 ug/L #	88
24) Chloroform	3.89	83	2128787	44.77 ug/L	100
25) 2,2-Dichloropropane	3.78	77	2111447	43.49 ug/L	99
28) 1,2-Dichloroethane	4.41	62	1367320	46.04 ug/L	97
29) 1,1,1-Trichloroethane	4.03	97	1964779	45.01 ug/L	100
30) 1,1-Dichloropropene	4.11	75	1786552	47.01 ug/L	100
31) Carbon Tetrachloride	3.99	117	1967418	48.31 ug/L	99
32) Benzene	4.28	78	4179414	47.36 ug/L	99
33) Dibromomethane	4.96	93	569885	46.76 ug/L	97
34) 1,2-Dichloropropane	5.03	63	1136608	48.81 ug/L	92
35) Trichloroethene	4.66	95	1147988	46.31 ug/L	99
36) Bromodichloromethane	5.06	83	1520641	46.28 ug/L	99
37) 2-Chloroethyl-vinyl-ether	5.03	63	1136608	195.25 ug/L #	99
38) cis-1,3-Dichloropropene	5.51	75	1810879	51.23 ug/L	97
39) 4-Methyl-2-Pentanone (MIBK	5.96	43	1293167	130.52 ug/L	95
40) trans-1,3-Dichloropropene	5.99	75	1253785	46.46 ug/L	98
41) 1,1,2-Trichloroethane	6.11	83	520977	47.58 ug/L	99
43) Toluene	5.69	91	3925410	48.77 ug/L	99
44) Ethyl Methacrylate	5.16	69	406978	55.57 ug/L	90
45) 1,3-Dichloropropane	6.32	76	1281773	49.54 ug/L	98
46) 2-Hexanone	6.59	43	972257	133.26 ug/L	98
48) Dibromochloromethane	6.25	129	880406	50.57 ug/L	99
49) 1,2-Dibromoethane (EDB)	6.45	107	648985	51.37 ug/L	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4101041.D Vial: 41
Acq On : 20 Oct 2016 9:17 pm Operator: GJD
Sample : lcsd 50ppb Inst : GC/MS #2
Misc : qc Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 24 18:28 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) Tetrachloroethene	5.97	166	954744	41.23 ug/L		98
51) 1,1,1,2-Tetrachloroethane	6.90	131	786144	49.96 ug/L		100
52) Chlorobenzene	6.85	112	2265231	48.54 ug/L		96
53) Ethylbenzene	6.86	91	4462727	47.04 ug/L		98
54) m,p-Xylene	6.98	91	6771358	92.89 ug/L		97
55) Bromoform	7.41	173	359776	48.54 ug/L		96
56) Styrene	7.37	104	2401874	47.61 ug/L		99
57) 1,1,2,2-Tetrachloroethane	8.00	83	720843	53.03 ug/L		97
58) o-Xylene	7.33	106	1637675	48.71 ug/L		99
59) trans-1,4-Dichloro-2-buten	8.16	53	228013	51.74 ug/L		98
60) 1,2,3-Trichloropropane	8.13	75	754932	53.59 ug/L		93
61) Isopropylbenzene	7.59	105	4789761	48.17 ug/L		99
63) Bromobenzene	7.93	156	751877	46.06 ug/L		89
64) N-propylbenzene	7.94	91	5517276	47.43 ug/L		100
65) 2-Chlorotoluene	8.08	91	3680618	46.38 ug/L		99
66) 4-Chlorotoluene	8.23	126	924508	49.01 ug/L		93
68) 1,3,5-Trimethylbenzene	8.11	105	3383277	51.12 ug/L		99
69) tert-Butylbenzene	8.39	119	3715401	53.28 ug/L		98
70) 1,2,4-Trimethylbenzene	8.45	105	3381073	50.77 ug/L	#	98
71) sec-Butylbenzene	8.54	105	5207167	53.72 ug/L	#	96
72) 1,3-Dichlorobenzene	8.75	146	1599980	50.92 ug/L		99
73) 1,4-Dichlorobenzene	8.83	148	961674	49.99 ug/L		99
74) p-Isopropyltoluene	8.67	119	4026978	52.22 ug/L		99
75) 1,2-Dichlorobenzene	9.22	146	1451762	53.42 ug/L		98
76) N-Butylbenzene	9.05	91	4383971	50.48 ug/L		97
77) 1,2-Dibromo-3-chloropropan	9.97	155	76128	54.52 ug/L		92
78) 1,2,4-Trichlorobenzene	10.61	180	865557	51.32 ug/L	#	96
79) Naphthalene	10.92	128	1669634	58.16 ug/L		98
80) Hexachloro-1,3-butadiene	10.57	225	665826	53.39 ug/L		99
81) 1,2,3-Trichlorobenzene	11.10	180	816507	53.93 ug/L		96
82) 1-methylnaphthalene	12.13	142	754388	57.72 ug/L		98
83) 2-methylnaphthalene	11.96	142	921711m	54.99 ug/L		

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

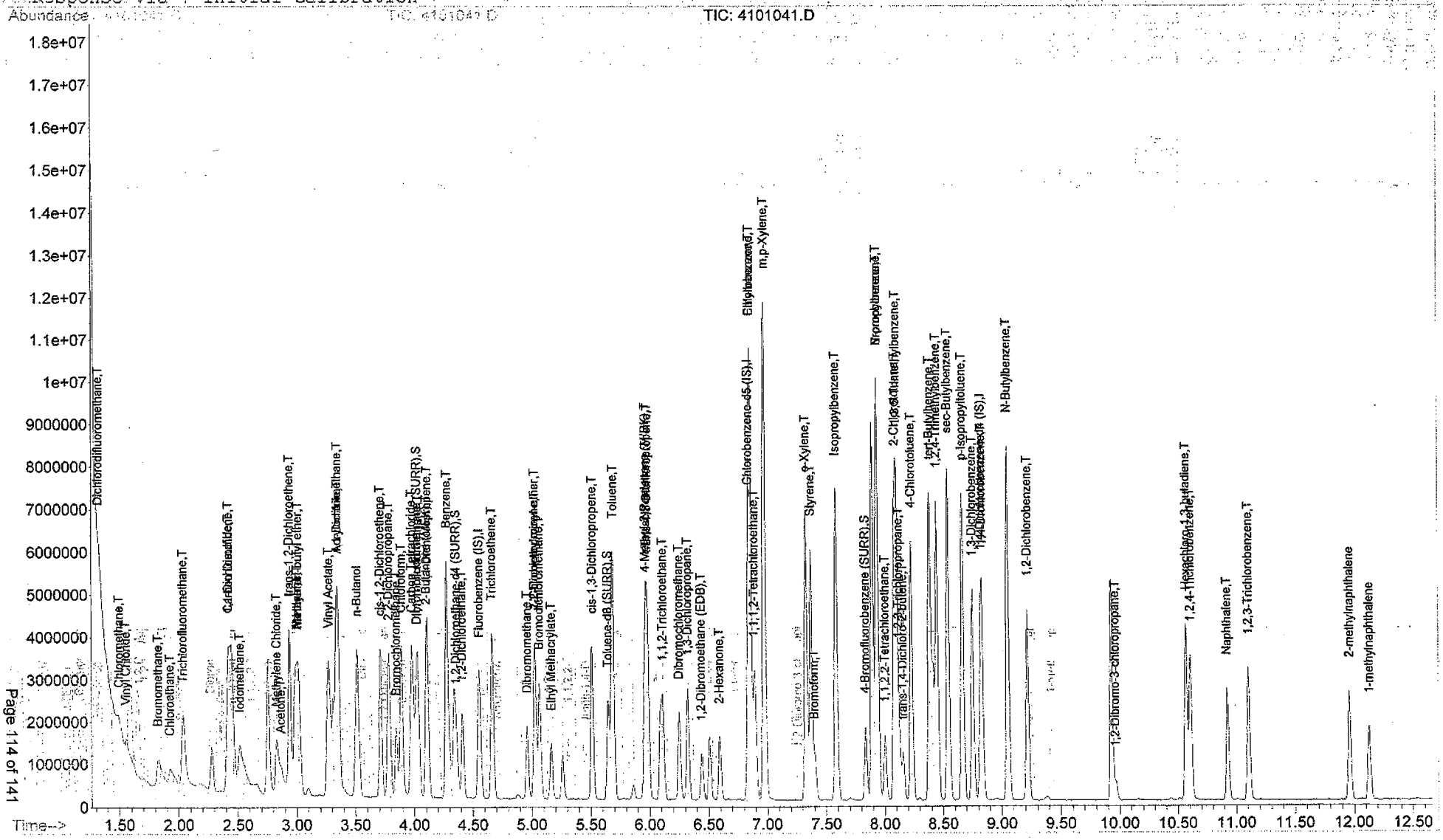
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\4101041.D
Acq On : 20 Oct 2016 9:17 pm
Sample : lcsd 50ppb
Misc : qc
MS Integration Params: rteint.p
Quant Time: Oct 24 18:28 2016

Vial: 41
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



ENVISION

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

8260 VOC

- Raw Sample Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\2601026.D Vial: 26
Acq On : 20 Oct 2016 4:30 pm Operator: GJD
Sample : 16-21542 Inst : GC/MS #2
Misc : a Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 24 18:01 2016 Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1457269	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	972994	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	416457	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	448487	53.80	ug/L	0.00
Spiked Amount 50.000	Range	69 - 137	Recovery	=	107.60%	
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	510696	54.21	ug/L	0.00
Spiked Amount 50.000	Range	67 - 144	Recovery	=	108.42%	
42) Toluene-d8 (SURR)	5.65	98	1353197	48.07	ug/L	0.00
Spiked Amount 50.000	Range	60 - 128	Recovery	=	96.14%	
62) 4-Bromofluorobenzene (SURR	7.84	95	582745	49.34	ug/L	0.00
Spiked Amount 50.000	Range	62 - 145	Recovery	=	98.68%	

Target Compounds Qvalue

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

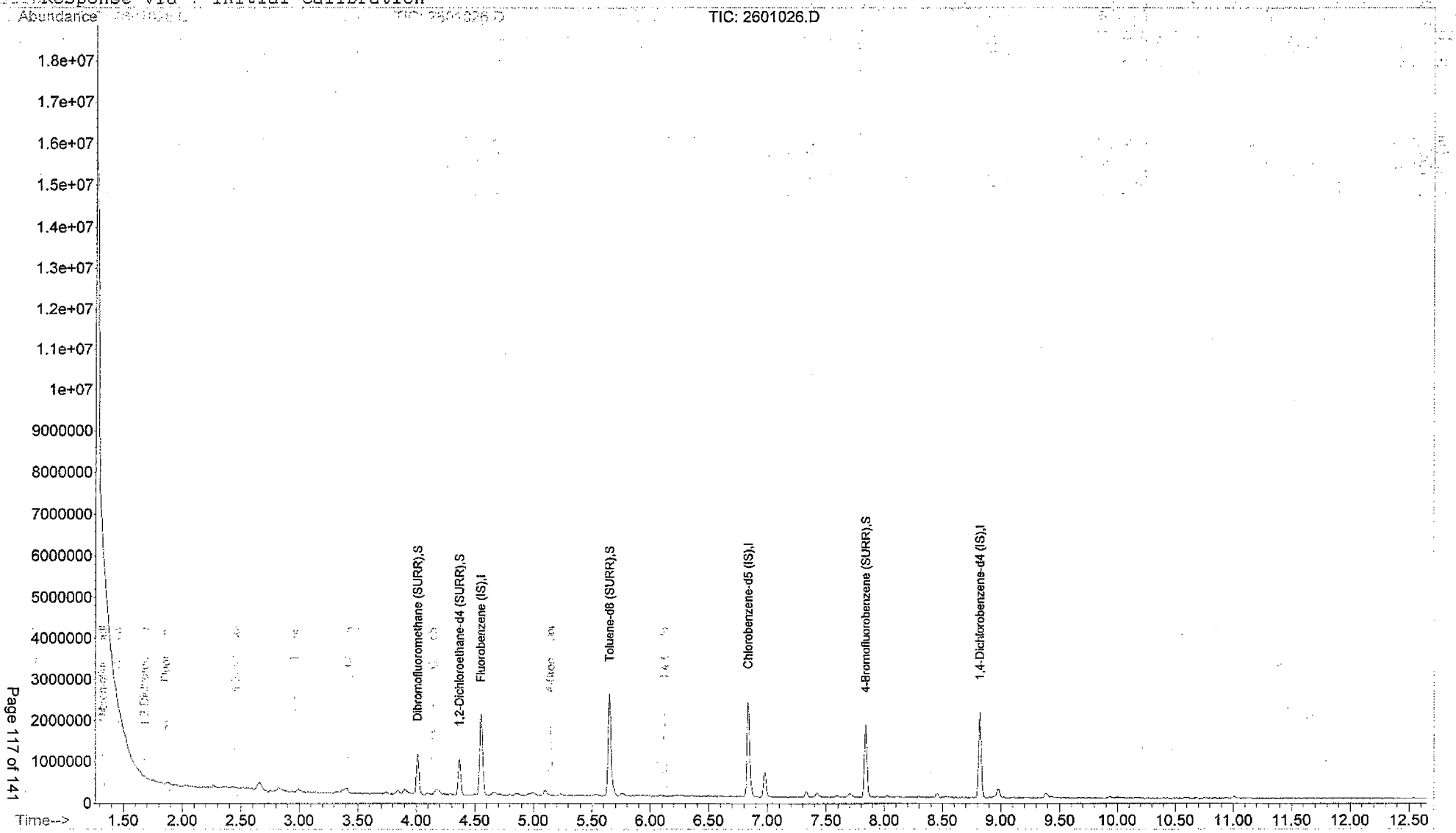
Quantitation Report

Data File : C:\HPCHEM\1\DATA\I02016\2601026.D
Acq On : 20 Oct 2016 4:30 pm
Sample : 16-21542
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:01 2016

Vial: 26
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\2701027.D
Acq On : 20 Oct 2016 4:50 pm
Sample : 16-21543
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:01 2016

Vial: 27
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

MW-2

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.56	96	1454527	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	982322	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	407474	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	422197	50.74	ug/L	0.00
Spiked Amount 50.000	Range	69 - 137	Recovery	=	101.48%	
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	476724	50.70	ug/L	0.00
Spiked Amount 50.000	Range	67 - 144	Recovery	=	101.40%	
42) Toluene-d8 (SURR)	5.65	98	1376731	48.99	ug/L	0.00
Spiked Amount 50.000	Range	60 - 128	Recovery	=	97.98%	
62) 4-Bromofluorobenzene (SURR	7.84	95	586314	49.17	ug/L	0.00
Spiked Amount 50.000	Range	62 - 145	Recovery	=	98.34%	

Target Compounds							Qvalue
32) Benzene	4.28	78	8206161	99.71	ug/L		96
43) Toluene	5.68	91	253075	3.37	ug/L	#	96
53) Ethylbenzene	6.86	91	3359178	37.32	ug/L	#	83
54) m,p-Xylene	6.97	91	546216	7.90	ug/L		98
58) o-Xylene	7.33	106	41049	1.29	ug/L	#	68
61) Isopropylbenzene	7.58	105	2456822	26.04	ug/L		100
64) N-propylbenzene	7.94	91	7263191	65.81	ug/L		99
70) 1,2,4-Trimethylbenzene	8.45	105	33908	0.50	ug/L	#	1
71) sec-Butylbenzene	8.54	105	951223	9.54	ug/L	#	96
76) N-Butylbenzene	9.05	91	606865	6.79	ug/L		97
79) Naphthalene	10.93	128	499782	16.93	ug/L	#	79
82) 1-methylnaphthalene	12.13	142	1415965	105.35	ug/L		99
83) 2-methylnaphthalene	11.97	142	57851	3.36	ug/L		97

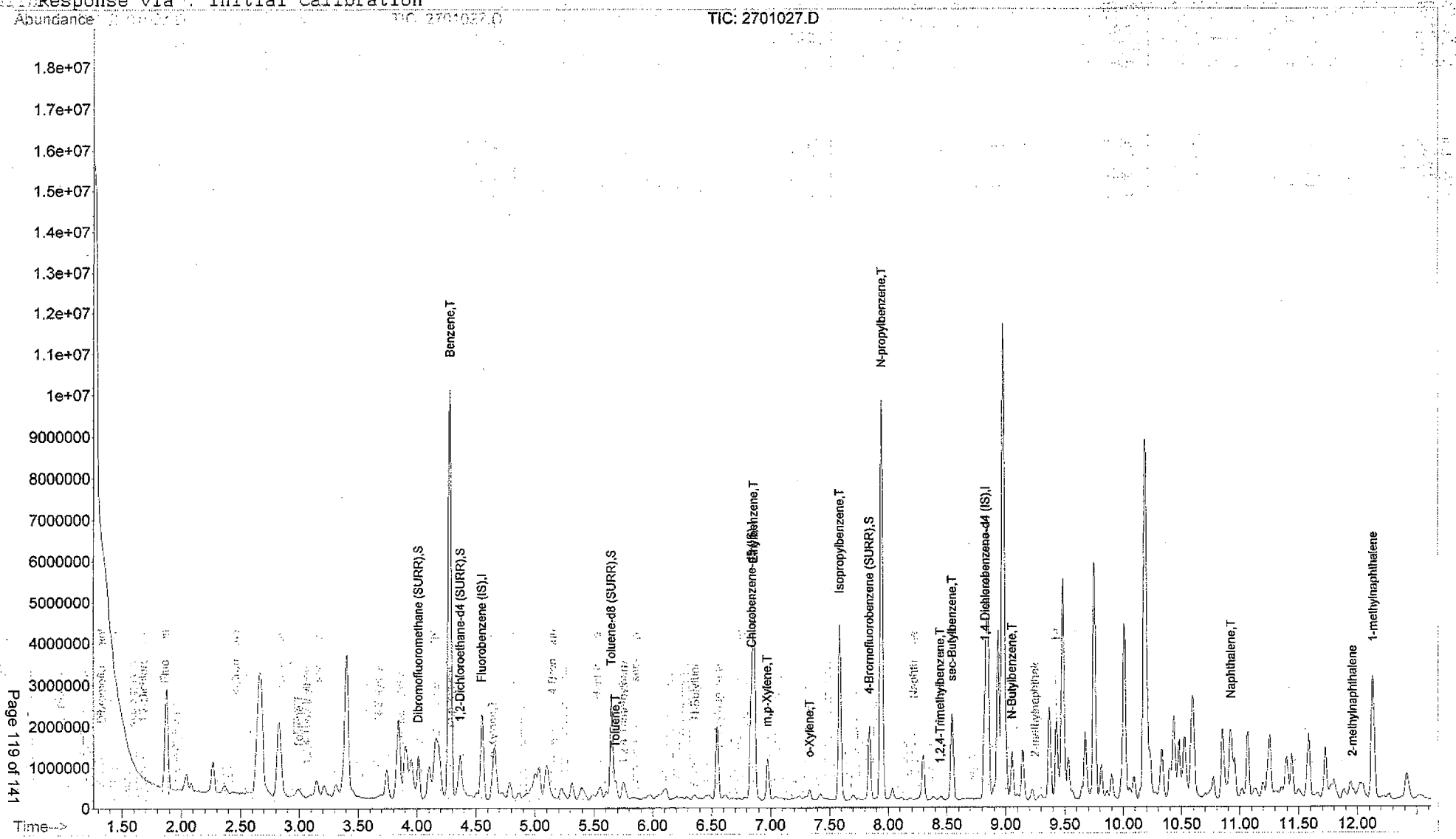
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\2701027.D
Acq On : 20 Oct 2016 4:50 pm
Sample : 16-21543
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:01 2016

Vial: 27
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00
Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\2801028.D
Acq On : 20 Oct 2016 5:09 pm
Sample : 16-21544
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:02 2016

Vial: 28
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1540484	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	1036593	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	449602	50.00 ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR	4.01	113	468477	53.16 ug/L	0.00
Spiked Amount 50.000	Range	69 - 137	Recovery	= 106.32%	
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	529375	53.16 ug/L	0.00
Spiked Amount 50.000	Range	67 - 144	Recovery	= 106.32%	
42) Toluene-d8 (SURR)	5.65	98	1417469	47.63 ug/L	0.00
Spiked Amount 50.000	Range	60 - 128	Recovery	= 95.26%	
62) 4-Bromofluorobenzene (SURR	7.84	95	604364	48.03 ug/L	0.00
Spiked Amount 50.000	Range	62 - 145	Recovery	= 96.06%	

Target Compounds Qvalue

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

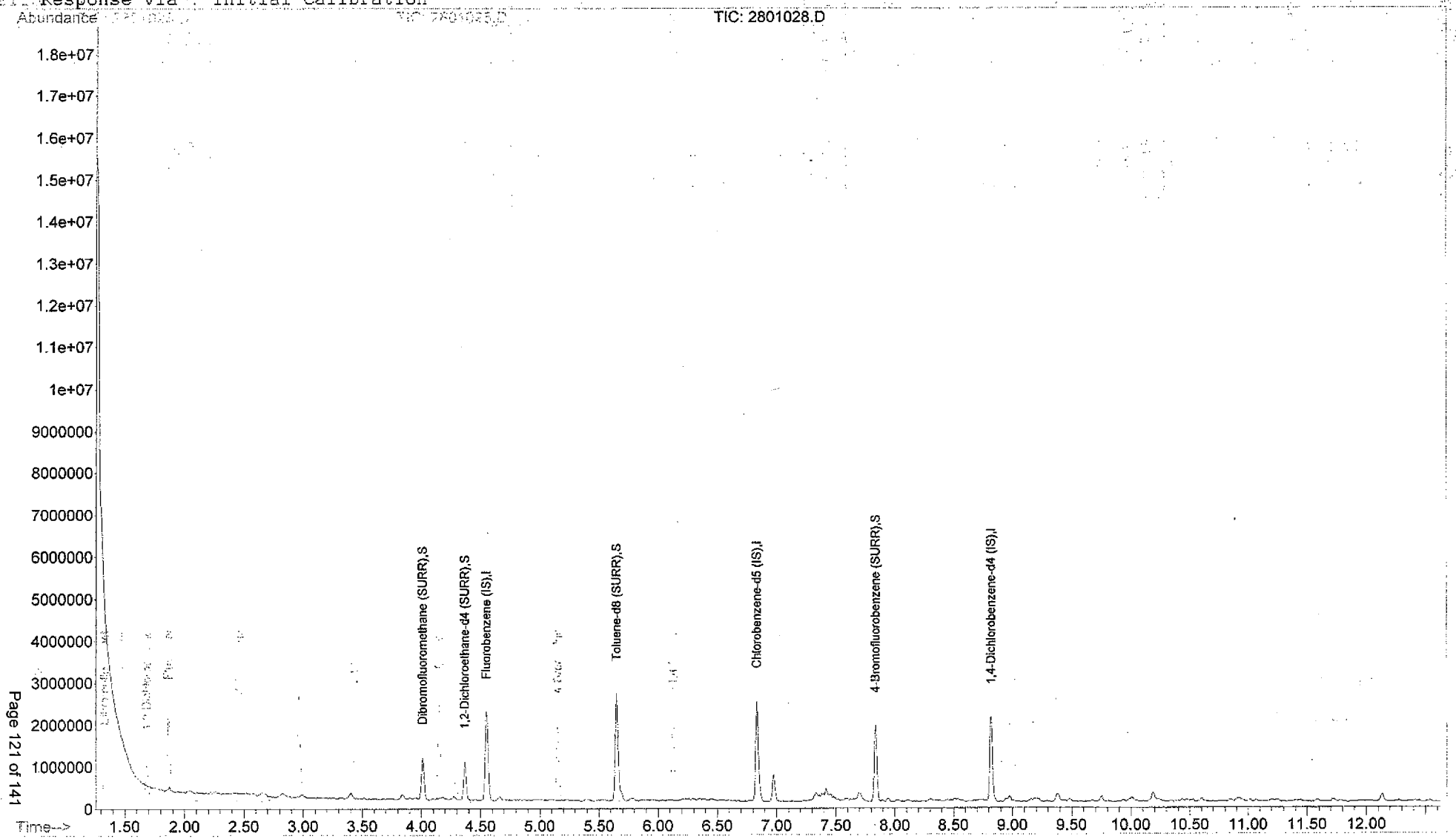
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\2801028.D
Acq On : 20 Oct 2016 5:09 pm
Sample : 16-21544
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:02 2016

Vial: 28
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\2901029.D
Acq On : 20 Oct 2016 5:28 pm
Sample : 16-21545
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:02 2016

Vial: 29
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1525893	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	1019509	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	431616	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR	4.01	113	460461	52.75	ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 105.50%			
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	492915	49.97	ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 99.94%			
42) Toluene-d8 (SURR)	5.65	98	1418382	48.12	ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 96.24%			
62) 4-Bromofluorobenzene (SURR	7.84	95	593586	47.96	ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 95.92%			

Target Compounds						Qvalue
32) Benzene	4.28	78	552322	6.40	ug/L	99

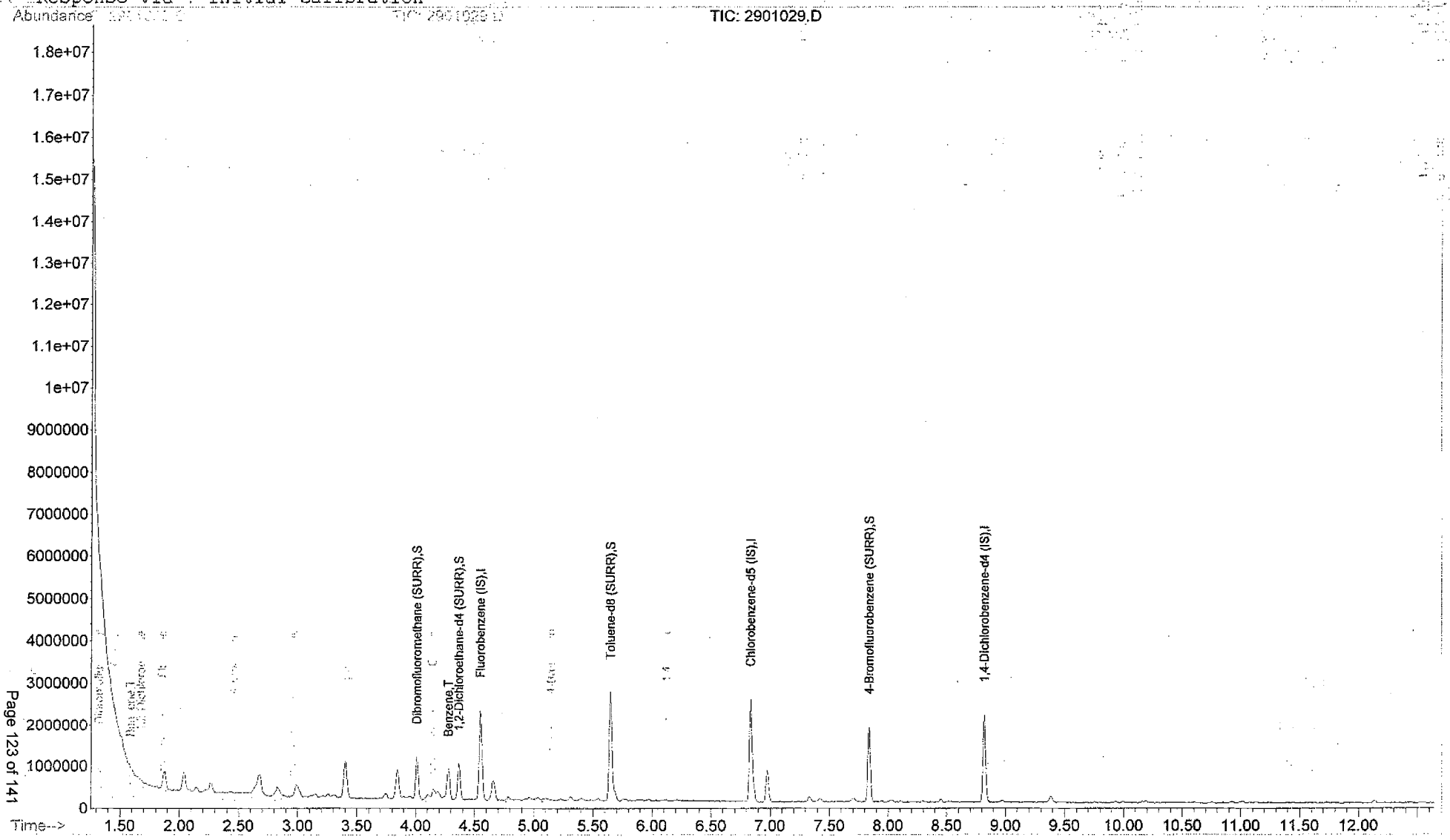
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\2901029.D
Acq On : 20 Oct 2016 5:28 pm
Sample : 16-21545
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:02 2016

Vial: 29
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00
Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3001030.D
Acq On : 20 Oct 2016 5:47 pm
Sample : 16-21546
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:03 2016

Vial: 30
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1537474	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.84	117	1026637	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	442304	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	477095	54.25 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 108.50%		
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	506828	50.99 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 101.98%		
42) Toluene-d8 (SURR)	5.65	98	1427507	48.06 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 96.12%		
62) 4-Bromofluorobenzene (SURR	7.83	95	606660	48.68 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 97.36%		
Target Compounds					Qvalue
16) Methyl-tert-butyl ether	3.02	73	79725	2.41 ug/L #	72
32) Benzene	4.27	78	165712	1.90 ug/L	96

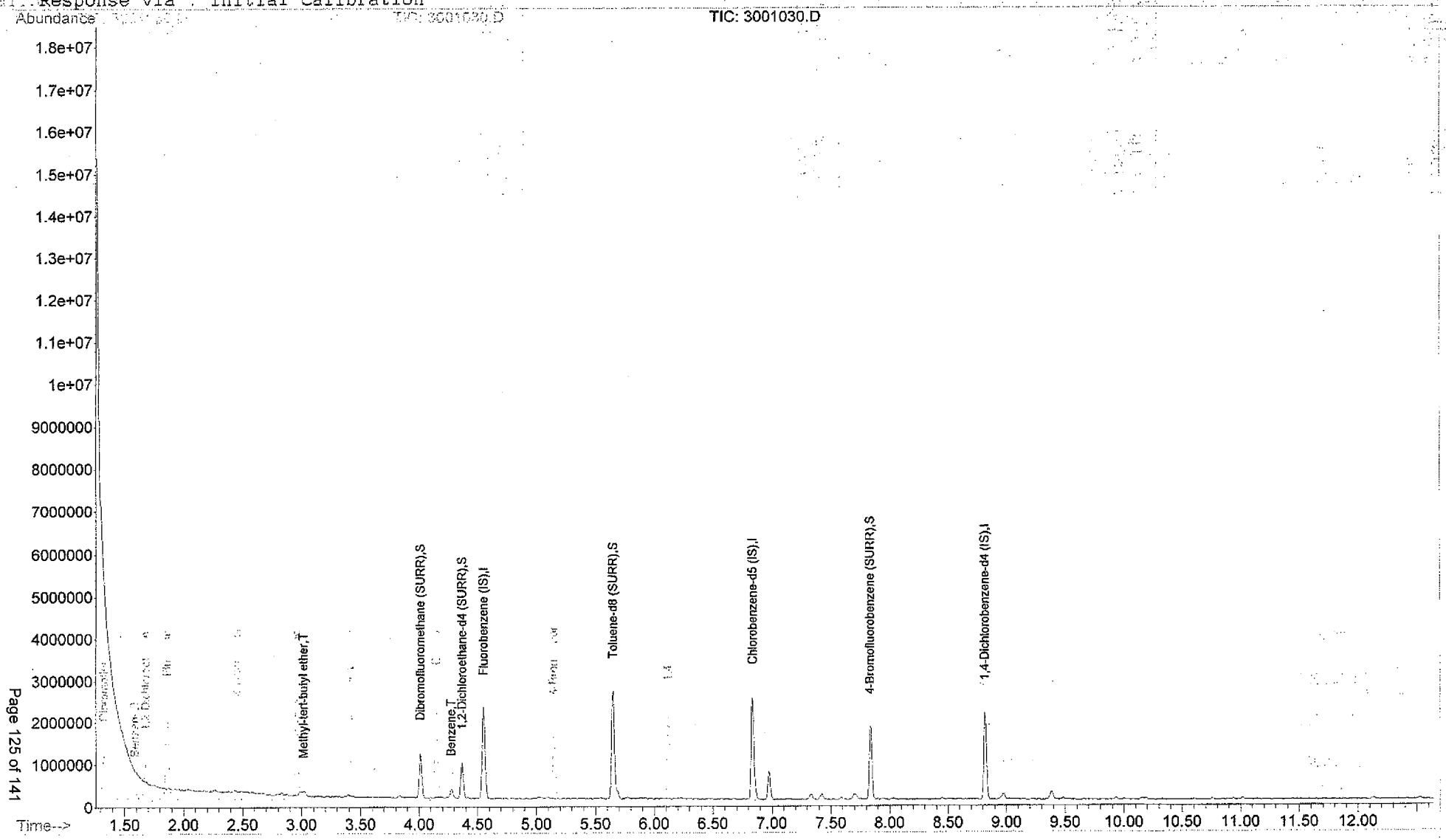
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\3001030.D
Acq On : 20 Oct 2016 5:47 pm
Sample : 16-21546
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:03 2016

Vial: 30
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00
Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3101031.D
Acq On : 20 Oct 2016 6:06 pm
Sample : 16-21547
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:03 2016

Vial: 31
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1514858	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	995959	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	436993	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	477668	55.12	ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 110.24%			
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	506414	51.71	ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 103.42%			
42) Toluene-d8 (SURR)	5.65	98	1402040	47.91	ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 95.82%			
62) 4-Bromofluorobenzene (SURR	7.84	95	612300	50.64	ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 101.28%			

Target Compounds Qvalue

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

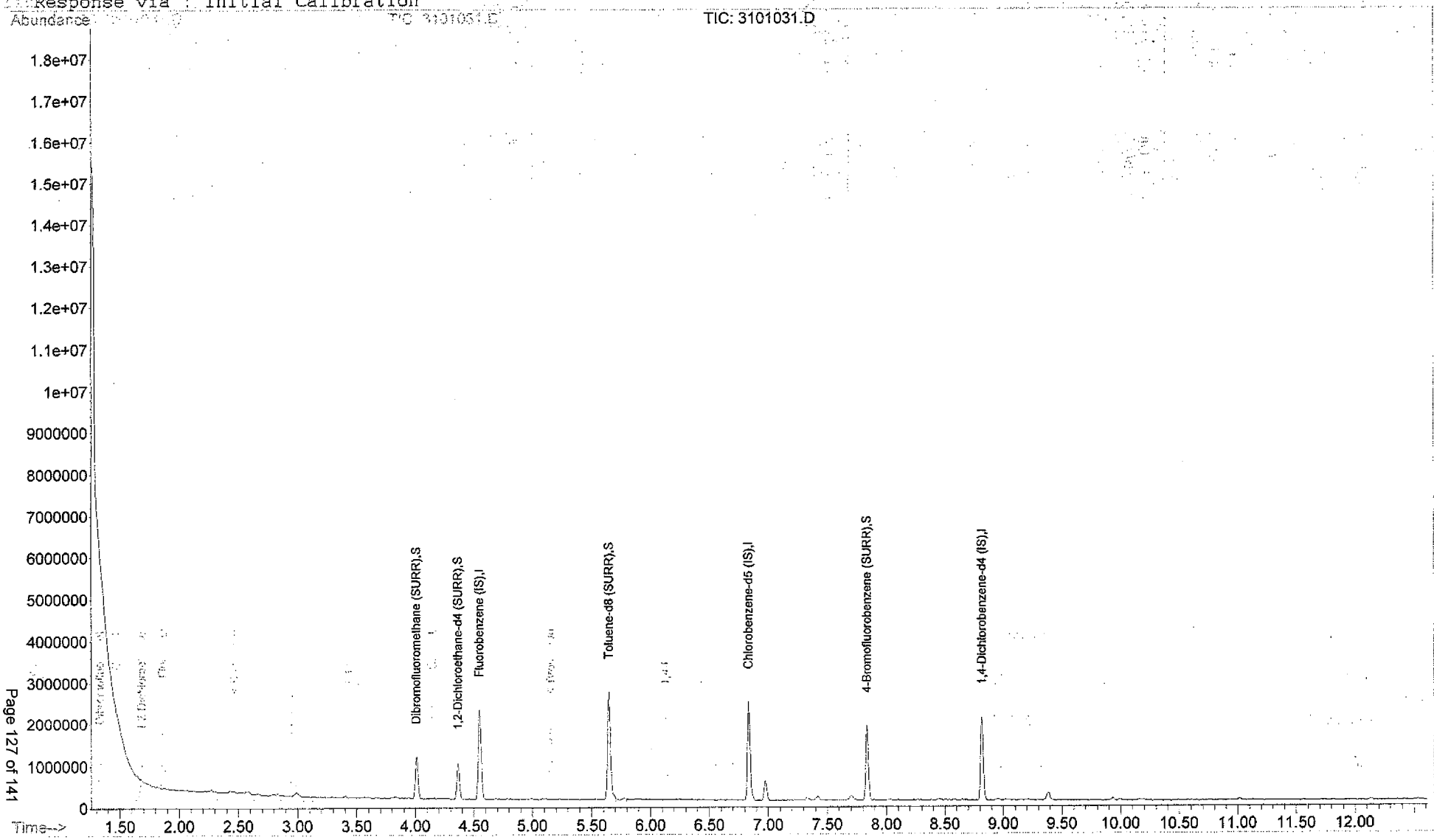
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\3101031.D
Acq On : 20 Oct 2016 6:06 pm
Sample : 16-21547
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:03 2016

Vial: 31
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3501035.D
Acq On : 20 Oct 2016 7:22 pm
Sample : 16-21549
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:06 2016

Vial: 35
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1510556	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	1007573	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	430302	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR	4.02	113	460328	53.27	ug/L	0.00
Spiked Amount 50.000	Range	69 - 137	Recovery	=	106.54%	
27) 1,2-Dichloroethane-d4 (SUR	4.36	65	507132	51.93	ug/L	0.00
Spiked Amount 50.000	Range	67 - 144	Recovery	=	103.86%	
42) Toluene-d8 (SURR)	5.65	98	1390971	47.66	ug/L	0.00
Spiked Amount 50.000	Range	60 - 128	Recovery	=	95.32%	
62) 4-Bromofluorobenzene (SURR	7.84	95	597135	48.82	ug/L	0.00
Spiked Amount 50.000	Range	62 - 145	Recovery	=	97.64%	

Target Compounds Qvalue

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

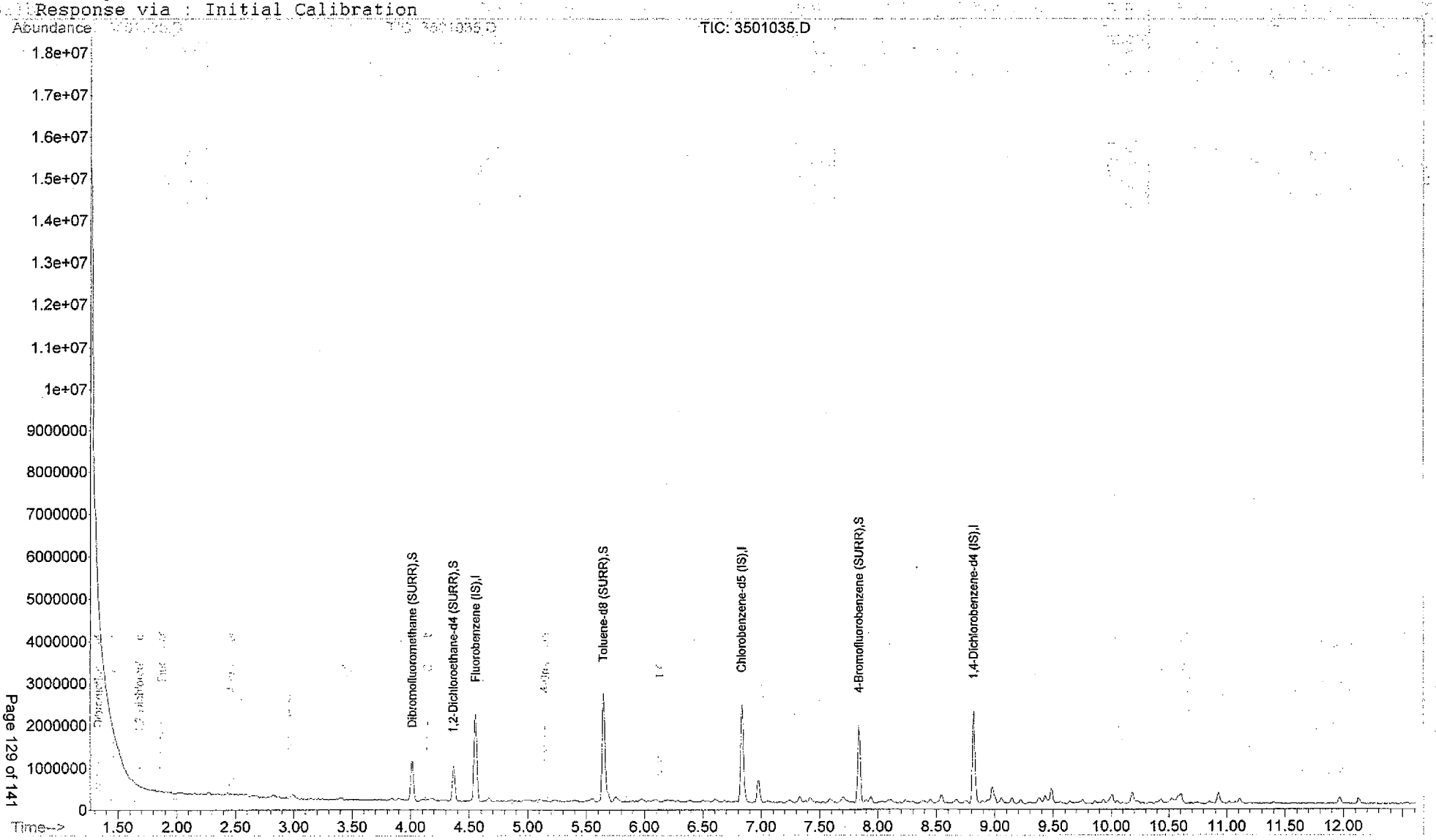
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\3501035.D
Acq On : 20 Oct 2016 7:22 pm
Sample : 16-21549
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:06 2016

Vial: 35
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3601036.D
Acq On : 20 Oct 2016 7:41 pm
Sample : 16-21550
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:06 2016

Vial: 36
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1555872	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	1019201	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	445695	50.00 ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR	4.01	113	482884	54.25 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 108.50%		
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	514383	51.14 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 102.28%		
42) Toluene-d8 (SURR)	5.65	98	1418459	47.19 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 94.38%		
62) 4-Bromofluorobenzene (SURR	7.84	95	615165	49.72 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 99.44%		

Target Compounds					Qvalue
16) Methyl-tert-butyl ether	3.02	73	229662	6.86 ug/L #	30

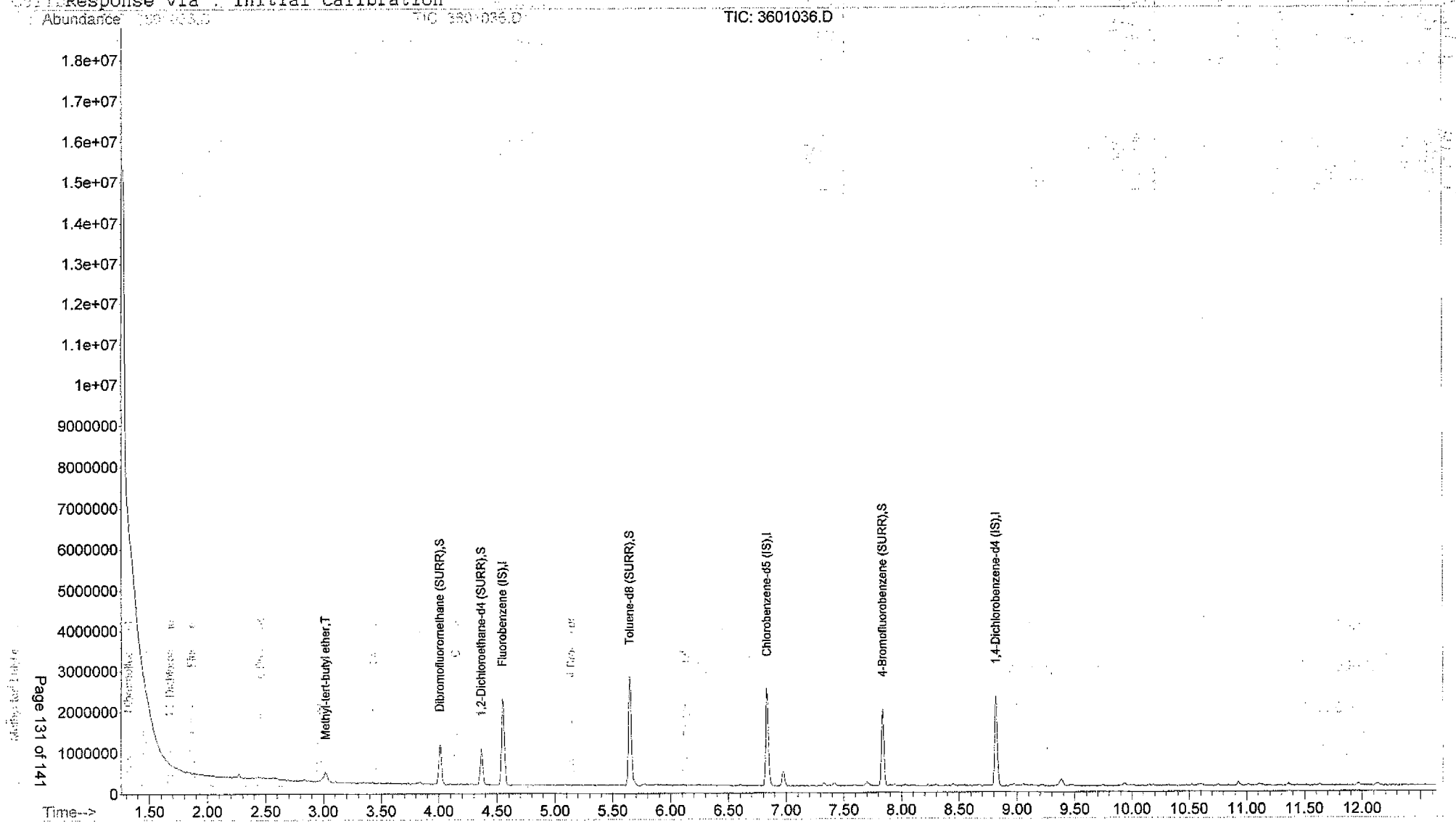
(#) = qualifier out of range (m) = manual integration
3601036.D 093016RC.M Mon Oct 24 18:33:00 2016 VOCWTS

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\3601036.D
Acq On : 20 Oct 2016 7:41 pm
Sample : 16-21550
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:06 2016

Vial: 36
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00
Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\3701037.D
Acq On : 20 Oct 2016 8:01 pm
Sample : 16-21551
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:07 2016

Vial: 37
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1499654	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	1003743	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	411444	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	461993	53.85 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery	= 107.70%	
27) 1,2-Dichloroethane-d4 (SUR	4.36	65	505842	52.18 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery	= 104.36%	
42) Toluene-d8 (SURR)	5.65	98	1417883	48.94 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery	= 97.88%	
62) 4-Bromofluorobenzene (SURR	7.84	95	607288	49.84 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery	= 99.68%	

Target Compounds					Qvalue
53) Ethylbenzene	6.86	91	2254309	24.51 ug/L #	85
54) m,p-Xylene	6.98	91	1419868	20.09 ug/L	98
58) o-Xylene	7.33	106	71038	2.18 ug/L	91
61) Isopropylbenzene	7.59	105	198295	2.06 ug/L	98
64) N-propylbenzene	7.94	91	497521	4.41 ug/L	98
68) 1,3,5-Trimethylbenzene	8.11	105	264107	3.84 ug/L #	94
70) 1,2,4-Trimethylbenzene	8.45	105	5843985	84.50 ug/L #	99
71) sec-Butylbenzene	8.55	105	130396	1.30 ug/L #	81
74) p-Isopropyltoluene	8.64	119	570368	7.12 ug/L	94
76) N-Butylbenzene	9.05	91	127558	1.41 ug/L #	89
79) Naphthalene	10.93	128	505131	16.94 ug/L #	69
82) 1-methylnaphthalene	12.13	142	227095	16.73 ug/L	96
83) 2-methylnaphthalene	11.96	142	114858	6.60 ug/L	98

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

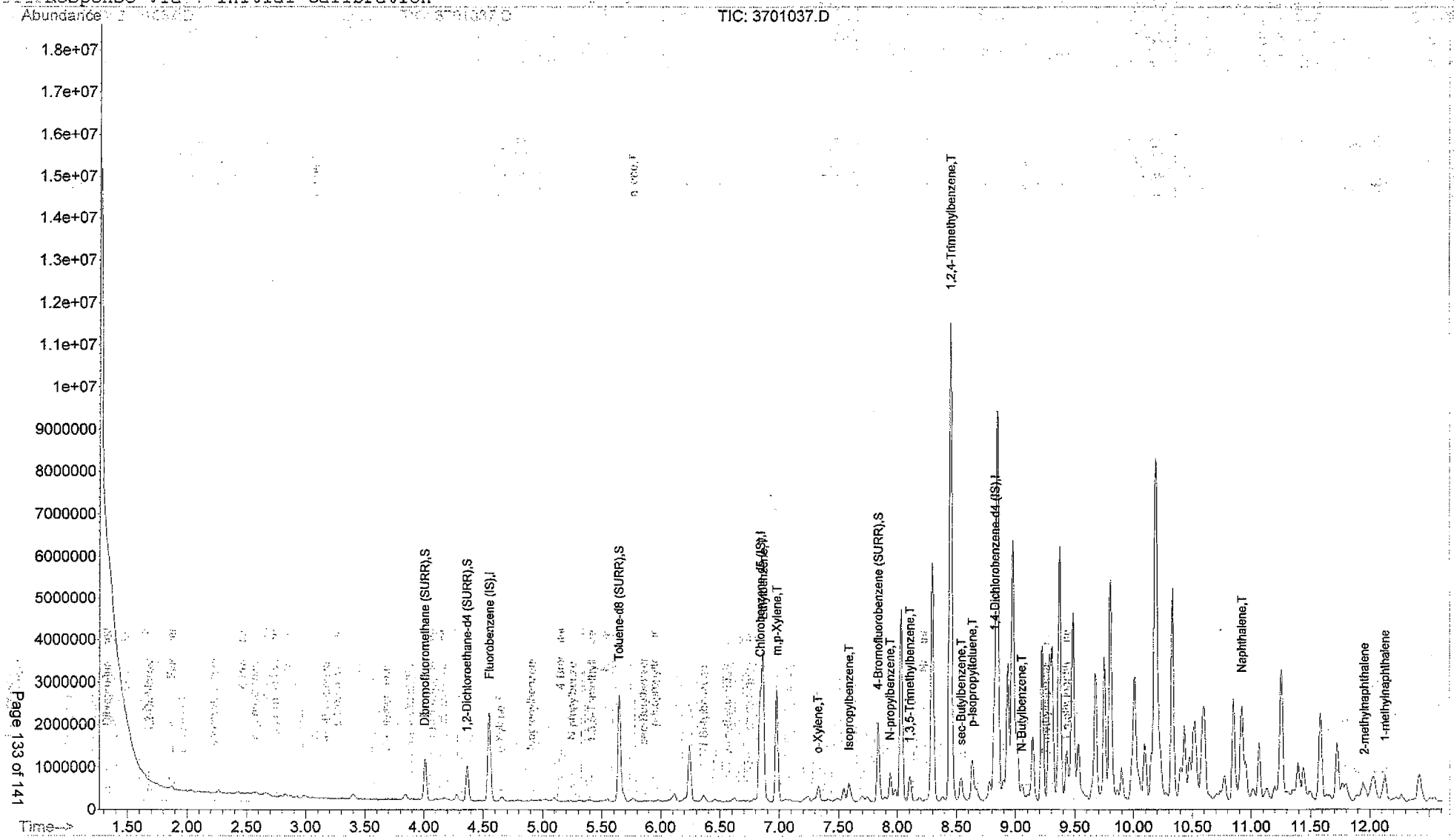
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\3701037.D
Acq On : 20 Oct 2016 8:01 pm
Sample : 16-21551
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:07 2016

Vial: 37
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : P:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4401044.D
Acq On : 20 Oct 2016 10:15 pm
Sample : 16-21552
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:29 2016

Vial: 44
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1535218	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	1015554	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	444045	50.00 ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR	4.01	113	469673	53.48 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 106.96%		
27) 1,2-Dichloroethane-d4 (SUR	4.36	65	531961	53.60 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 107.20%		
42) Toluene-d8 (SURR)	5.64	98	1442547	48.64 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 97.28%		
62) 4-Bromofluorobenzene (SURR	7.83	95	635641	51.56 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 103.12%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
4401044.D 093016RC.M Mon Oct 24 18:34:21 2016 VOCWTS

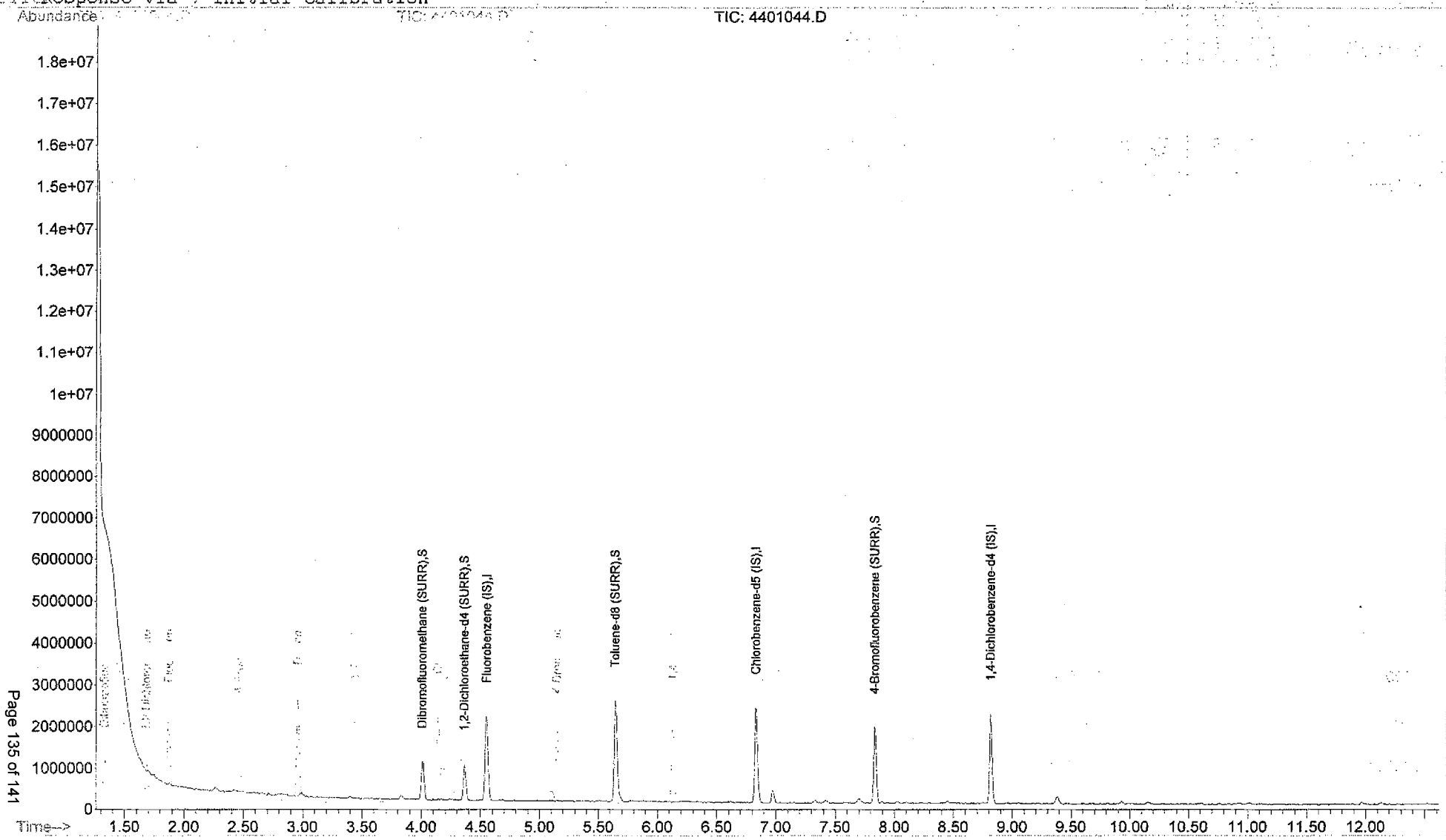
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\4401044.D
Acq On : 20 Oct 2016 10:15 pm
Sample : 16-21552
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:29 2016

Vial: 44
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4501045.D
Acq On : 20 Oct 2016 10:34 pm
Sample : 16-21553
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:29 2016

Vial: 45
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1471145	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	981203	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	427917	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR	4.01	113	459345	54.58	ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 109.16%			
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	478715	50.34	ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 100.68%			
42) Toluene-d8 (SURR)	5.65	98	1376033	48.42	ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 96.84%			
62) 4-Bromofluorobenzene (SURR	7.84	95	604646	50.76	ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 101.52%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
4501045.D 093016RC.M Mon Oct 24 18:34:24 2016 VOCWTS

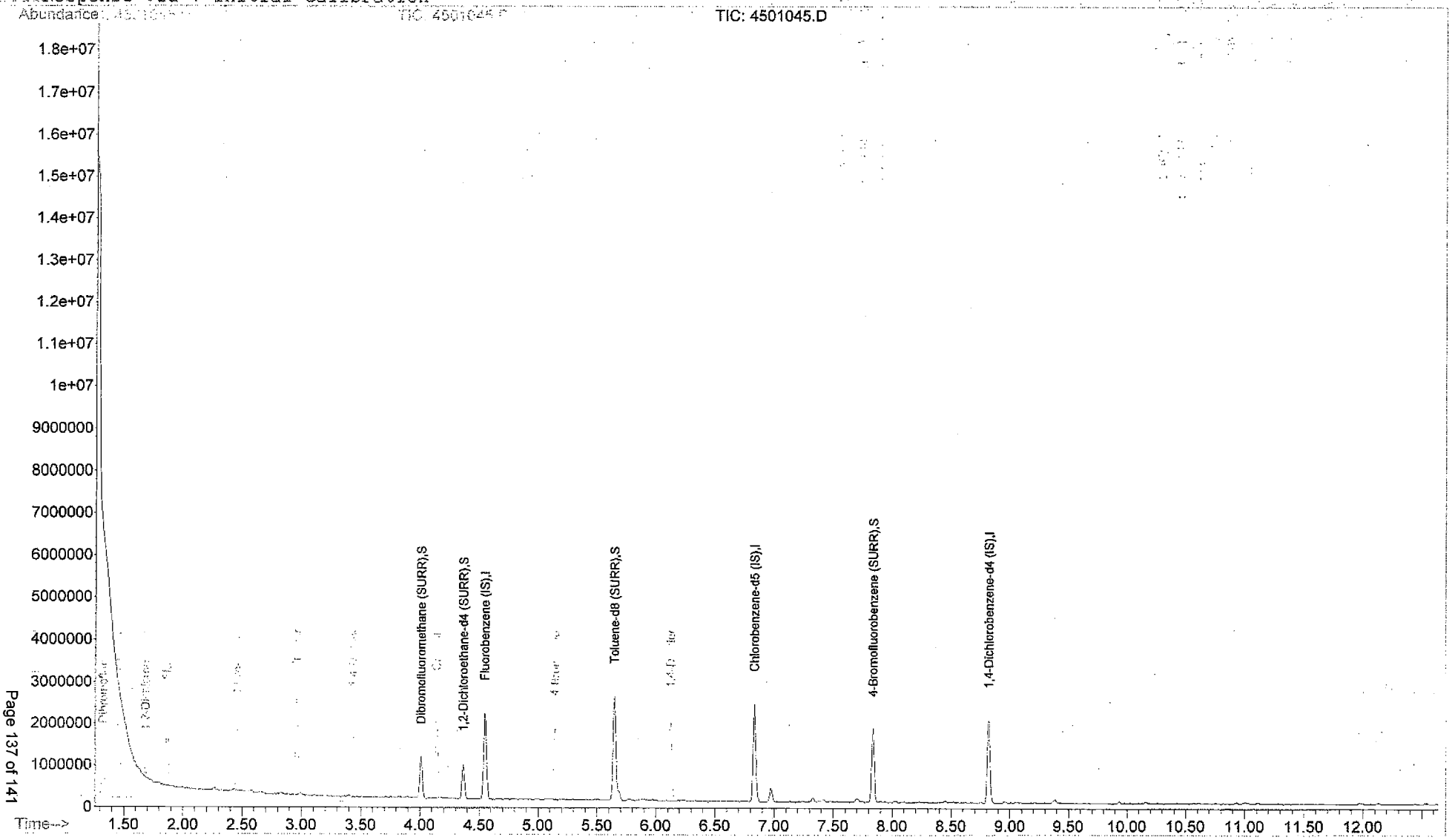
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\4501045.D
Acq On : 20 Oct 2016 10:34 pm
Sample : 16-21553
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:29 2016

Vial: 45
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4601046.D
Acq On : 20 Oct 2016 10:53 pm
Sample : 16-21554 dup
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 25 12:42 2016

Vial: 46
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.56	96	1350880	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	884073	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	401490	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	401238	51.92 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery	= 103.84%	
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	441082	50.51 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery	= 101.02%	
42) Toluene-d8 (SURR)	5.65	98	1245181	47.71 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery	= 95.42%	
62) 4-Bromofluorobenzene (SURR	7.84	95	547275	50.99 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery	= 101.98%	

Target Compounds						Qvalue
32) Benzene	4.28	78	7665529	100.29 ug/L		97
43) Toluene	5.68	91	214010	3.07 ug/L		99
53) Ethylbenzene	6.86	91	2987511	36.88 ug/L	#	84
54) m,p-Xylene	6.98	91	402138m	6.46 ug/L		
58) o-Xylene	7.33	106	25545	0.89 ug/L	#	1
61) Isopropylbenzene	7.58	105	2175985	25.63 ug/L		99
64) N-propylbenzene	7.94	91	6469482	65.14 ug/L		99
71) sec-Butylbenzene	8.54	105	854477m	8.70 ug/L		
76) N-Butylbenzene	9.05	91	515813	5.86 ug/L		99
79) Naphthalene	10.92	128	487492	16.76 ug/L	#	77
82) 1-methylnaphthalene	12.13	142	1469110	110.93 ug/L		100
83) 2-methylnaphthalene	11.96	142	82137	4.84 ug/L		98

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

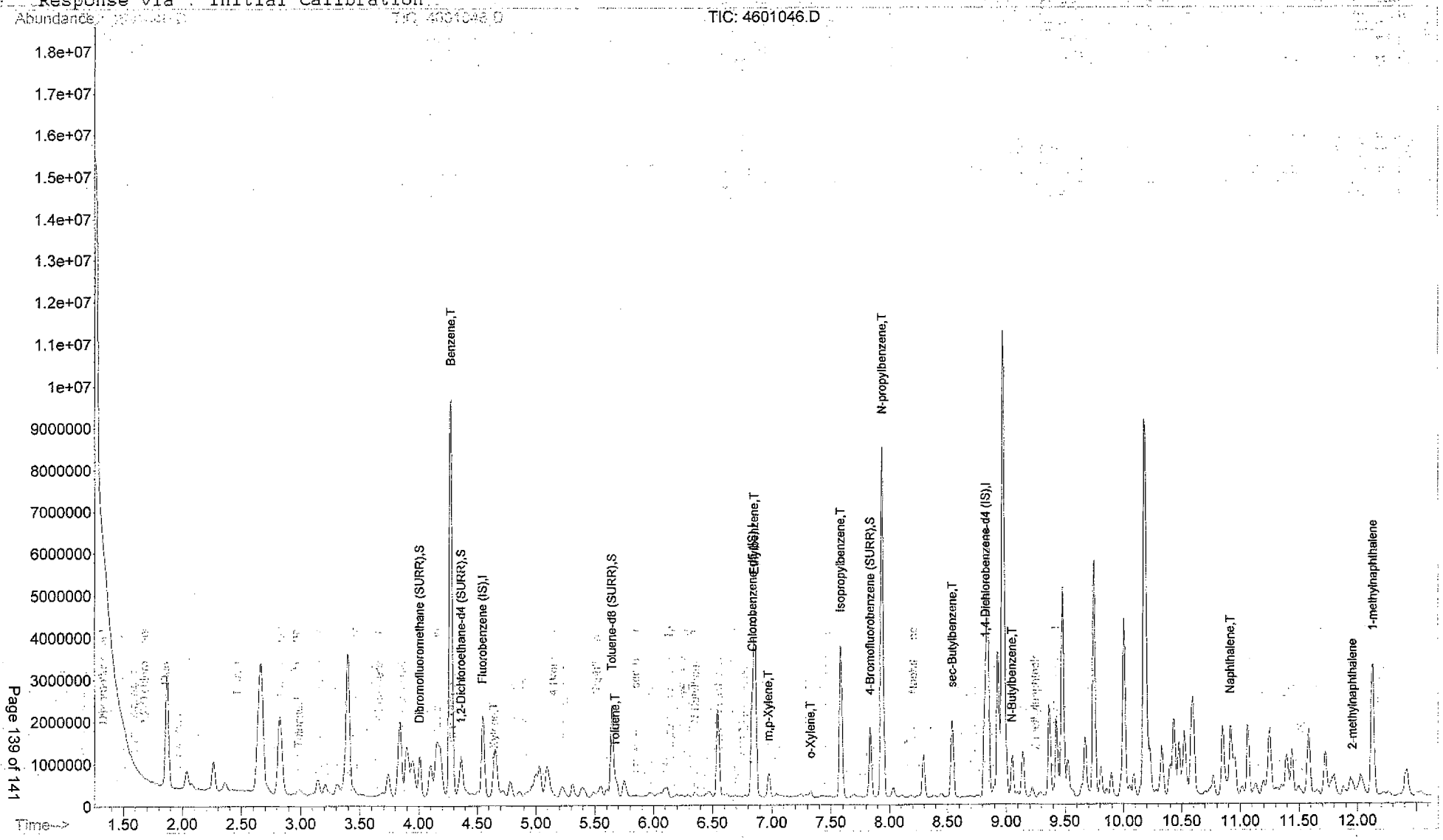
Quantitation Report

Data File : C:\HPCHEM\1\DATA\I02016\4601046.D
Acq On : 20 Oct 2016 10:53 pm
Sample : 16-21554 dup
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 25 12:42 2016

Vial: 46
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\102016\4801048.D
Acq On : 20 Oct 2016 11:31 pm
Sample : 16-21555 tb
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:31 2016

Vial: 48
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Quant Method : F:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration
DataAcq Meth : TESTVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	4.55	96	1472412	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	6.83	117	929660	50.00 ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS	8.82	152	377740	50.00 ug/L	0.00
System Monitoring Compounds					
26) Dibromofluoromethane (SURR	4.01	113	455562	54.09 ug/L	0.00
Spiked Amount 50.000	Range 69 - 137		Recovery = 108.18%		
27) 1,2-Dichloroethane-d4 (SUR	4.37	65	502121	52.75 ug/L	0.00
Spiked Amount 50.000	Range 67 - 144		Recovery = 105.50%		
42) Toluene-d8 (SURR)	5.65	98	1359239	47.78 ug/L	0.00
Spiked Amount 50.000	Range 60 - 128		Recovery = 95.56%		
62) 4-Bromofluorobenzene (SURR	7.84	95	566682	50.21 ug/L	0.00
Spiked Amount 50.000	Range 62 - 145		Recovery = 100.42%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
4801048.D 093016RC.M Mon Oct 24 18:34:33 2016 VOCWTS

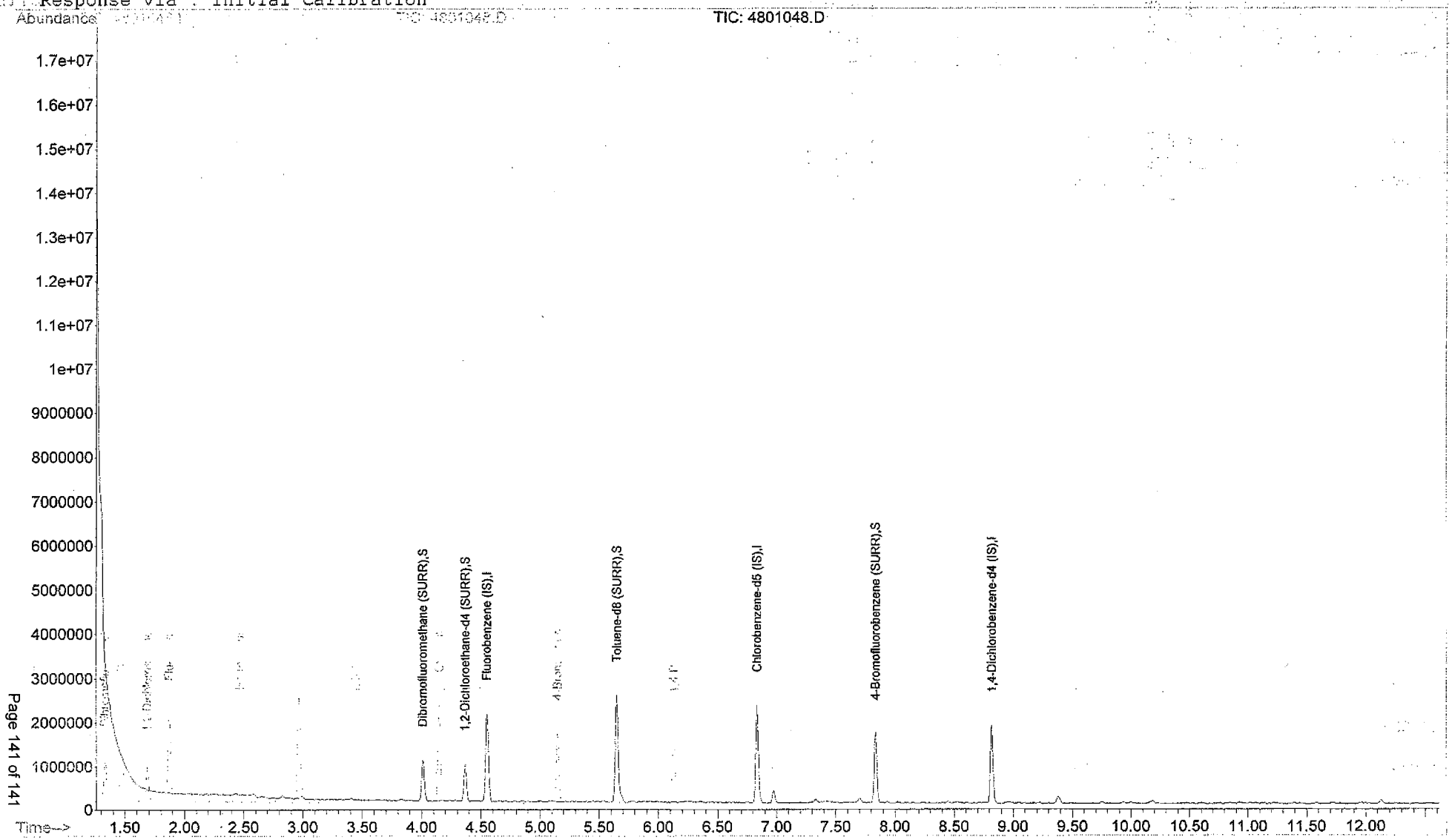
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102016\4801048.D
Acq On : 20 Oct 2016 11:31 pm
Sample : 16-21555 tb
Misc : a
MS Integration Params: rteint.p
Quant Time: Oct 24 18:31 2016

Vial: 48
Operator: GJD
Inst : GC/MS #2
Multiplr: 1.00

Quant Results File: 093016RC.RES

Method : C:\HPCHEM\1\1\METHODS\093016RC.M (RTE Integrator)
Title : 8260 voa analysis
Last Update : Sat Oct 01 08:48:52 2016
Response via : Initial Calibration



ATTACHMENT E

Corrective Action Progress Report Form

Health and Safety Plan Documentation

CORRECTIVE ACTION PROGRESS REPORT

Facility Name: Former Herdrich Bulk Plant State Cleanup Site: 2013-33964
Address: 2920 Connett Avenue
VRP Number: 6131201
City, County, State, Zip: Fort Wayne, Allen, Indiana, 46802
Responsible Party: Herdrich Petroleum
Contact Person: Mr. Robert Herdrich Phone: (765) 932-3224
IDEM Project Manager: Mr. Michael McCann
Consultant Company: Creek Run L.L.C. Environmental Engineering
Address: P.O. Box 114 Phone: (765) 728-8051
City, State, Zip: Montpelier, Indiana, 47359 Fax: (765) 728-3041

SITE INFORMATION

Contaminant(s):
_X_Gasoline ___Kerosene ___Jet Fuel ___Diesel ___Waste Oil
___Virgin Oil ___Naphthalene ___Hazardous and CAS #_____

Contaminated Media:
_X_Soil _X_Groundwater

Selected Corrective Action:
__Vapor Extraction ___Land Farm ___Pump and Treat
__Airsparging ___Bioremediation _X_Other Source Removal

The three (3) highest contaminant levels detected during Fourth Quarter 2016 are listed below:

Sample I.D	units	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-2	ppb	99.7	<5	37.3	<10	<5	16.9
MW-10	ppb	<5	<5	24.5	20.1	<5	16.9
MW-7	ppb	<5	<5	<5	<10	<5	40.0

VOLUME TREATED

	Current Quarter		Cumulative Annual Total	
Free Product	NA	gallons	NA	gallons
Groundwater	NA	gallons	NA	gallons
Treated Soil	NA	cubic yards	NA	cubic yards
Soils to Landfill	NA	tons	NA	tons
Est. lbs. of VOC's	NA	pounds	NA	pounds

SUBMITTAL DEADLINES

Current Reporting Type:___Quarter _X_Final
Today's Date: 12/16/16

Reporting Period	Due Date
___Jan. 1 – Mar. 31	April 30
___Apr. 1 – June 30	July 31
___July 1 – Sept. 30	October 31
_X_Oct. 1 – Dec. 31	January 31

Consultant Signature: _____

Consultant Printed Name: Dennis Livingston, LPG 2120

Creek Run L.L.C.
ENVIRONMENTAL ENGINEERING
Taking Pride in What We Do!
PO Box 114 • 1 Creek Run Drive • Montpelier, IN 47359 • Phone 765.728.8051 • Fax 765.728.3041

HEALTH & SAFETY PLAN
QUARTERLY MONITORING SUPPLEMENT

DATE: 10/18/16

SITE: 2920 Connett Ave, Fort Wayne
CLIENT: Herdrich Petroleum

CREEK RUN PERSONNEL:

		Safety Mtg. Initials
Project Mgr.: Stephanie Bragg	(Phone #: (765) 728-8051)	
On-site: Chelsea Smith	(Team Leader: Phone #: (765)728-8051)	CJ
Ross Yeates	(Safety Officer: Chelsea Smith)	RY
	( )	
	( )	

SAFETY MEETING TIME: 9:36 **QM EVENT:** 4th Quarter 2016

REMEDIATION SYSTEM? [No] Yes (Type: _____ Operating? Yes No)

 # OF WELLS: 12 **SAMPLE PARAMETERS:** VOCs & naph 8260

MANDATORY SAFETY EQUIPMENT (check all that apply):

[X] Steel-toed Boots [X] Safety Vest [ ] Eye Protection [X] Cones
[ ] Buddy System at wells: none

SITE SPECIFIC HAZARDS

X Vehicle Traffic	___ Noise	X Biological Hazards
X Fall	___ Cold Stress	X Other: UV Exposure
___ Overhead	X Heat Stress	___ Other:

EMERGENCY PHONE NUMBERS (site specific):

Jeff Jacob, Director of Technical Services ..... (765) 209-1325 – mobile
Jason Lenz, Chief Operating Officer ..... (765) 744-6495 – mobile

Emergency 911
Fire Department ..... (260) 427-1478
Police ..... (260) 427-1222
IDEM Emergency Response ..... (888) 233-7745
US EPA ..... (800) 424-8802
Ambulance ..... (260) 420-6500
Hospital (Lutheran Hospital) ..... (260) 435-7001

Directions to Hospital: *Lutheran Hospital is located at 7952 W Jefferson Blvd, Fort Wayne, Indiana.*
(Time to Hospital: 8 minutes, Distance: 4.44 miles)

- Head north on Connett Ave toward Covington Rd (0.01 mi)
- Turn left onto Covington Rd (2.3 mi)
- Turn slight left onto W Jefferson Blvd (2.2 mi)
- The hospital is on the right