TETRA TECH

Matt Villicana
Project Manager

January 21, 2019

Mr. Thomas Mendez
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 5
77 W. Jackson Boulevard
Chicago, IL 60604

**Subject:** **Letter Report – Ozinga Tire Fire ER**
**Revision 0**
**11701 S. Torrence Avenue, Chicago, Illinois 60617**
**EPA Contract No. EP-S5-13-01**
**TDD No. S05-0004-1809-205**
**DTN No. 2603**

Dear Mr. Mendez:

Under the Superfund Technical Assessment and Response Team (START) Contract No. EP-S5-13-01, the U.S. Environmental Protection Agency (EPA) Region 5 tasked Tetra Tech, Inc. (Tetra Tech), to conduct emergency response (ER) activities at a tire fire from September 14 to 15, 2018. The tire fire occurred at the Ozinga Materials property located at 11701 S. Torrence Avenue, Chicago, Cook County, Illinois (Figure 1, Appendix A).

This letter report summarizes the activities conducted by Tetra Tech during the ER. Appendix A contains figures illustrating the site location, site layout, ambient air monitoring results, and surface water sample locations. Appendix B contains a table of laboratory analytical results. Appendix C contains community air monitoring summaries from September 14$^{th}$ and 15$^{th}$. Appendix D contains the photographic log of response activities. Appendix E provides the Tetra Tech START field logbook notes. Appendix F provides the Data Validation Reports for the three analytical data packages. Attachment 1 contains the EPA Initial Pollution Report (POLREP) for the emergency response. Attachment 2 contains a collection of three analytical reports for samples collected during the emergency response.

## BACKGROUND

Just before 2:00 pm on September 14, 2018, the Chicago Fire Department was toned out for a tire fire at the Ozinga Materials property (Figure 2, Appendix A). The fire quickly engulfed several large piles of shredded tires that were approximately 40 feet in height. Due to very few fire hydrants being located near the facility, the fire was upped to a three-alarm fire and the Chicago Fire Department fire boat was called for to utilize the Calumet River as a water source. A hazardous materials box alarm was also called due to the fire burning in close proximity to a large storage building reportedly containing granular ammonium nitrate fertilizer. The Chicago Fire Department utilized two tower ladder trucks as well as a snorkel squad unit to quickly extinguish the fire by flowing approximately 2,800-3,000 gallons of water per minute at the tire piles. At approximately 5:30 pm, START was mobilized to the site to provide community air monitoring assistance for the City of Chicago Department of Public Health as well as monitor and sample the fire suppression runoff. The fire was actively smoldering when EPA and START arrived at the site.

## RESPONSE ACTIVITIES

Throughout the emergency response, START personnel conducted air monitoring, water quality monitoring, ambient air sampling, and surface water sampling. Each of these tasks is discussed below.

### Air Monitoring

Upon arrival at the site, START personnel immediately initiated community air monitoring activities by utilizing a DustTrak DRX, MultiRAE Pro, and MultiRAE Benzene to gather mobile air monitoring data from neighborhoods around the tire fire. Fixed, continuous air monitoring stations were not established during the ER due to insecurity regarding the safety of the air monitoring equipment. Community air monitoring was conducted in multiple rounds throughout the ER. The locations are presented in Figure 3 in Appendix A. START personnel also conducted mobile air monitoring by carrying a MultiRAE Benzene around while on-site to ensure worker safety.

Air monitoring data was collected in the logbook as well as downloaded from each piece of equipment for processing. Results from the community air monitoring indicate the following that while elevated volatile organic compound (VOC) readings were observed early on in the response, benzene nor hydrogen sulfide (H2S) were never detected. By the end of the response, readings for all compounds were observed to be zero. Also, particulate counts for the PM2.5 and PM10 size fractions indicate that particulates in the air were low and never exceeded an action level of 3 milligrams per cubic meter ($mg/m^3$) for respirable particulates according to the American Conference of Governmental Industrial Hygienists (ACGIH). A summary table of air monitoring data is provided in Table B of Appendix B. The full downloads of the instruments' datalogs and calibration reports are not provided in the report but can be furnished upon request.

### Surface Water Sampling

START personnel collected three grab surface water samples during the emergency response as well as three sheen net samples from fire suppression runoff. Surface water sample OTF-SW-001-091418 was collected from a pond of fire suppression runoff that had gathered near the entrance of the Ozinga Materials property and analyzed by a subcontracted laboratory for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) as well as by the US Coast Guard Marine Safety Laboratory (MSL) for oil fingerprinting. Surface water sample OTF-SW-002-091418 was collected from fire suppression runoff going into a 2-foot culvert on the east side of the site and run for VOCs and SVOCs. Surface water sample OTF-SW-003-091518 was collected from a large pond of fire suppression runoff that had gathered towards the center of the Ozinga Materials property and run for VOCs, SVOCs, and oil fingerprinting. Surface water sample OTF-SW-004-091518 was collected from fire suppression runoff going from the smoldering tire piles to the large runoff pond at the center of the site. This water was observed to have a sheen, so the sample was run for oil fingerprint analysis. Surface water sample locations are presented in Figure 4 in Appendix A.

Analytical results from the surface water samples revealed that the runoff water from the fire suppression efforts contained four organic compounds that exceeded either EPA Maximum Contaminant Levels (MCLs), Illinois Pollution Control Board (IPCB) Water Quality Standards (WQS) for the Lake Michigan Water Basin, or Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action (TACO) Tier 1 Remediation Objectives (ROs). Because IEPA does not have any remediation objectives for surface water, the water samples were compared to IEPA TACO Tier 1 Groundwater ROs.

Sample OTF-SW-001-091418 contained the following organic compounds that exceeded MCLs, WQS, or ROs: 2-methylphenol (610 µg/L), phenol (970 µg/L), benzene (470 µg/L), and ethylbenzene (56 µg/L). Sample OTF-SW-002-091518 contained benzene (87 µg/L) exceeding the MCL and IEPA RO. Sample OTF-SW-003-091518 also contained benzene (20 µg/L) exceeding the MCL and IEPA RO. See Table A in Appendix B for a complete listing of detected analytes in the surface water samples. The laboratory reports for surface water samples are provided in Attachment 2.

## FURTHER ACTION

After finding non-detects in community air monitoring readings throughout the day and evening on September 15th, EPA and START demobilized from the site just before midnight on September 15th. EPA and START continued to maintain a state of readiness to mobilize to the site in the event of any flare-ups. No further action is required from EPA regarding the tire fire incident.

If you have any questions regarding this report or the response, please call me at 312-201-7430.

Sincerely,

Matt Villicana
Tetra Tech START V Site Manager

Kris Schnoes
Tetra Tech START V Quality Assurance Manager

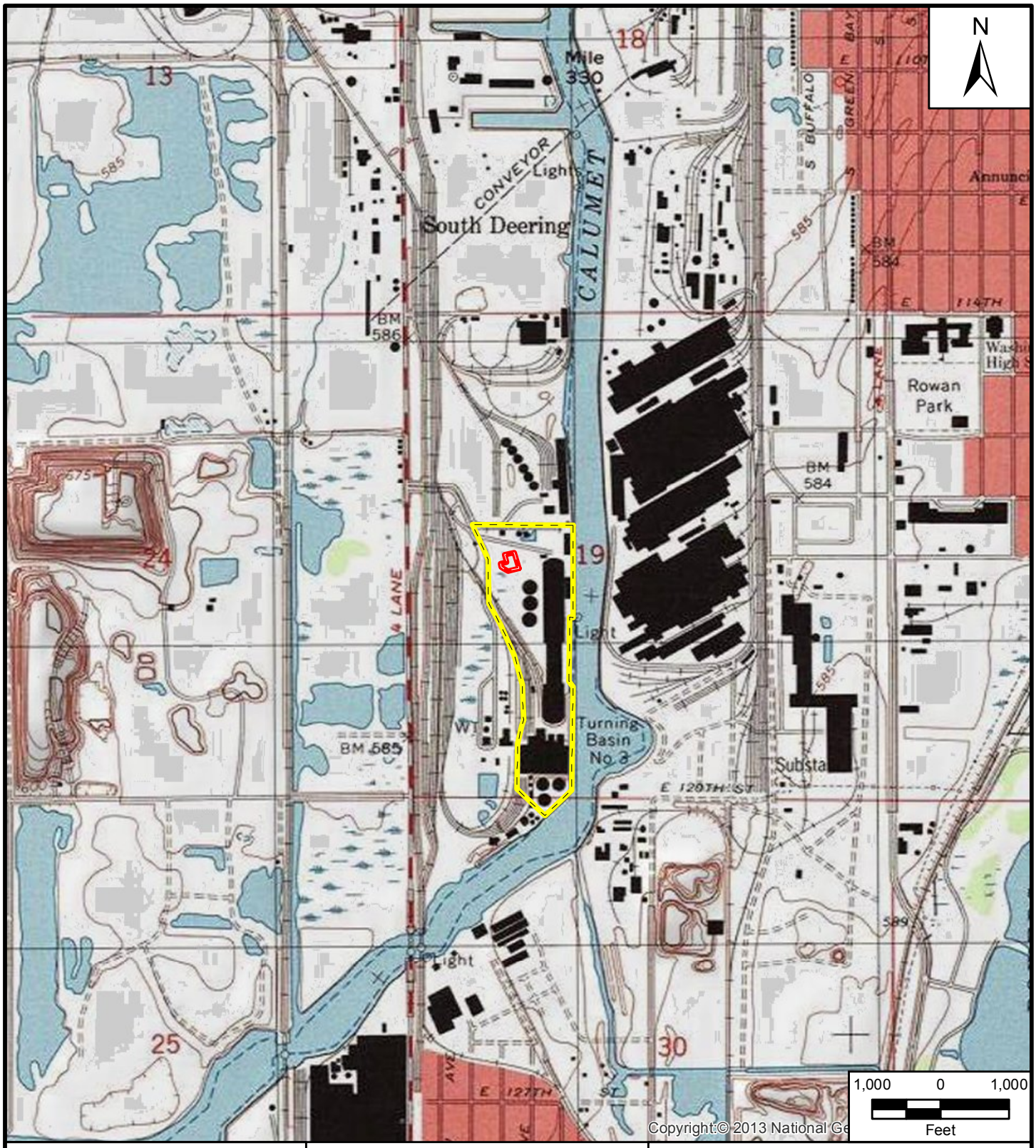
Appendices (6)
Attachments (1)

cc: Sam Chummar, EPA Project Officer
Caeli Cleary, START IV Document Control Coordinator

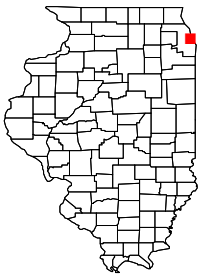
# APPENDIX A

**FIGURES**

(4 Pages)




**Reference Map**



**Legend**

- Approximate Tire Fire Boundary
- Approximate Site Boundary

Source: Modified from USGS, Calumet City, Illinois
7.5-Minute (1:24,000 Scale) Topographic Map, 1999.

Ozinga Tire Fire Emergency Response
Chicago, Cook County, Illinois

**Figure 1**
***Site Location Map***

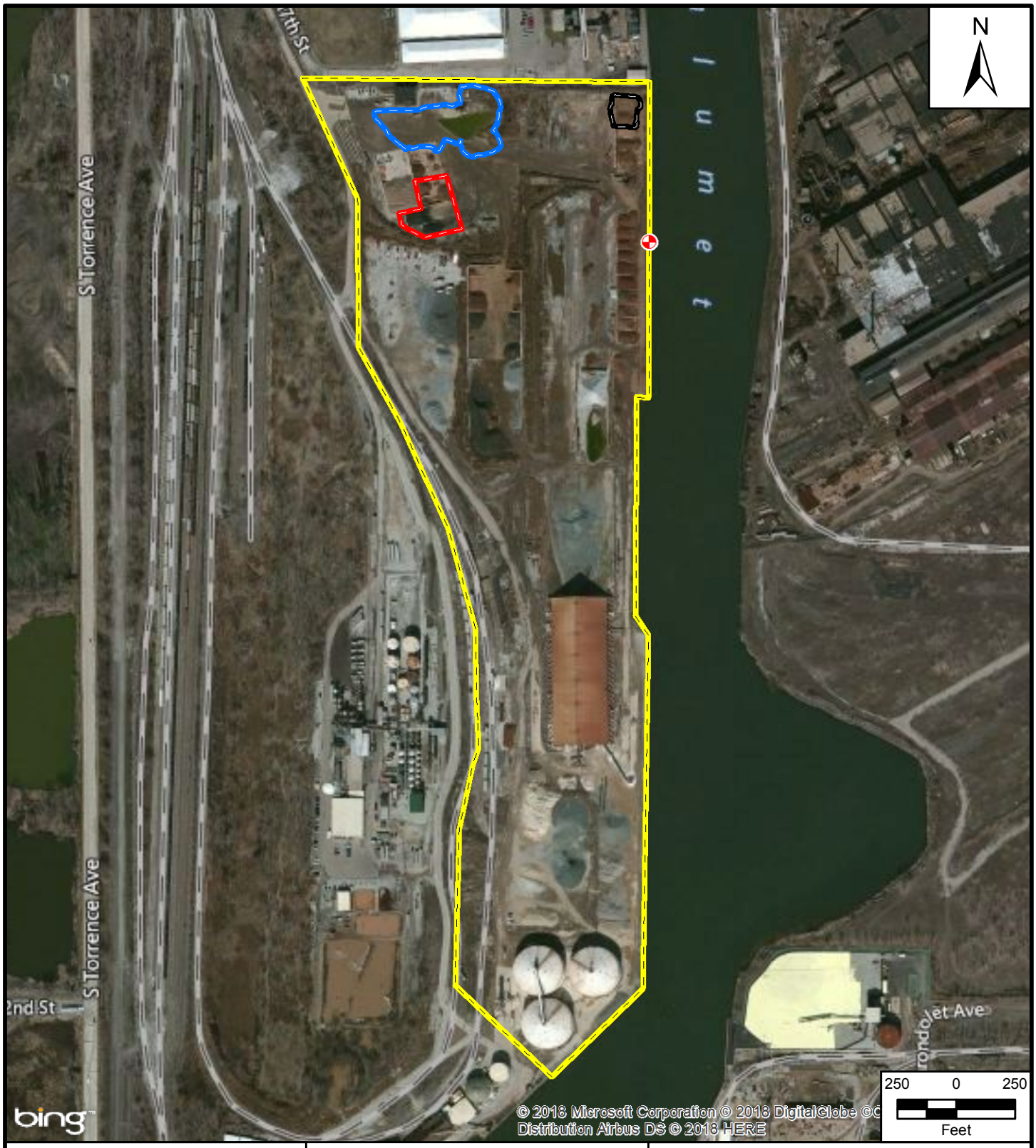
TETRA TECH

Prepared For: USEPA | Prepared By: Tetra Tech, Inc.

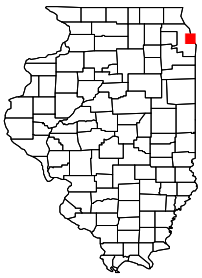
File Path: G:\G\G9026-START IV\Illinois\Ozinga Tire Fire\mxd\OzingaTireFire_1.mxd

Date Saved: 9/18/2018

EPA Contract No.: EP-S5-13-01 TDD No.: S05-0001-1603-005 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter




**Reference Map**



**Legend**

- Approximate Site Boundary
- Approximate Tire Fire Boundary
- Main Runoff Pooling
- Small Unburned Pile of Tires
- Culvert Outfall Location

Source: Modified from Bing Maps Hybrid (2011-2012).

Ozinga Tire Fire Emergency Response
Chicago, Cook County, Illinois

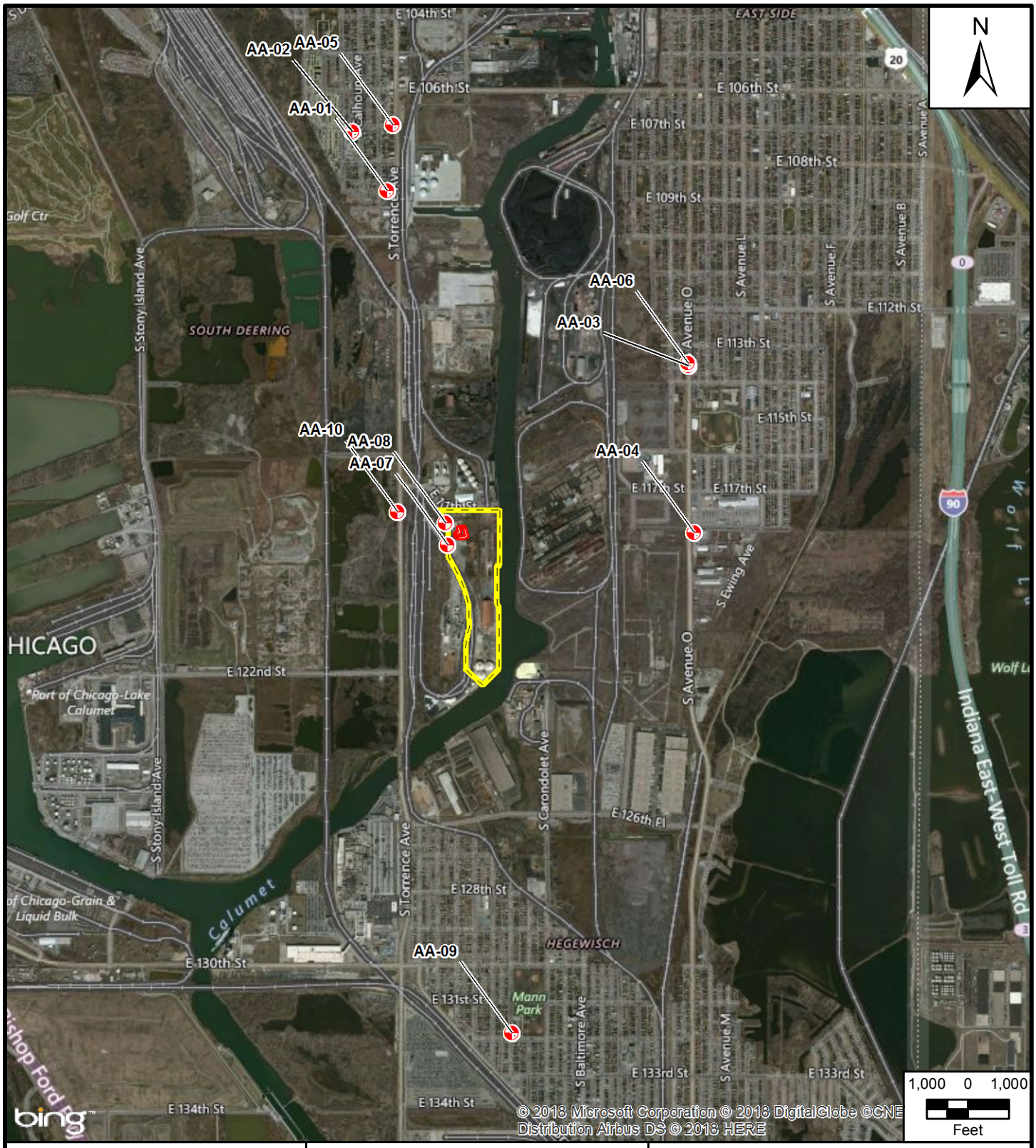
**Figure 2**
***Site Layout Map***

TETRA TECH

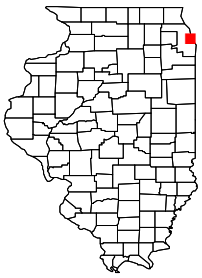
Prepared For: USEPA | Prepared By: Tetra Tech, Inc.

File Path: G:\G\G9026-START IV\Illinois\Ozinga Tire Fire\mxd\OzingaTireFire_2.mxd

Date Saved: 10/8/2018 EPA Contract No.: EP-S5-13-01 TDD No.: S05-0001-1603-005 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter




**Reference Map**



**Legend**

- Air Monitoring Locations
- Approximate Tire Fire
- Approximate Site

Source: Modified from Bing Maps Hybrid (2011-2012).

Ozinga Tire Fire Emergency Response
Chicago, Cook County, Illinois

**Figure 3**
***Air Monitoring Location Map***

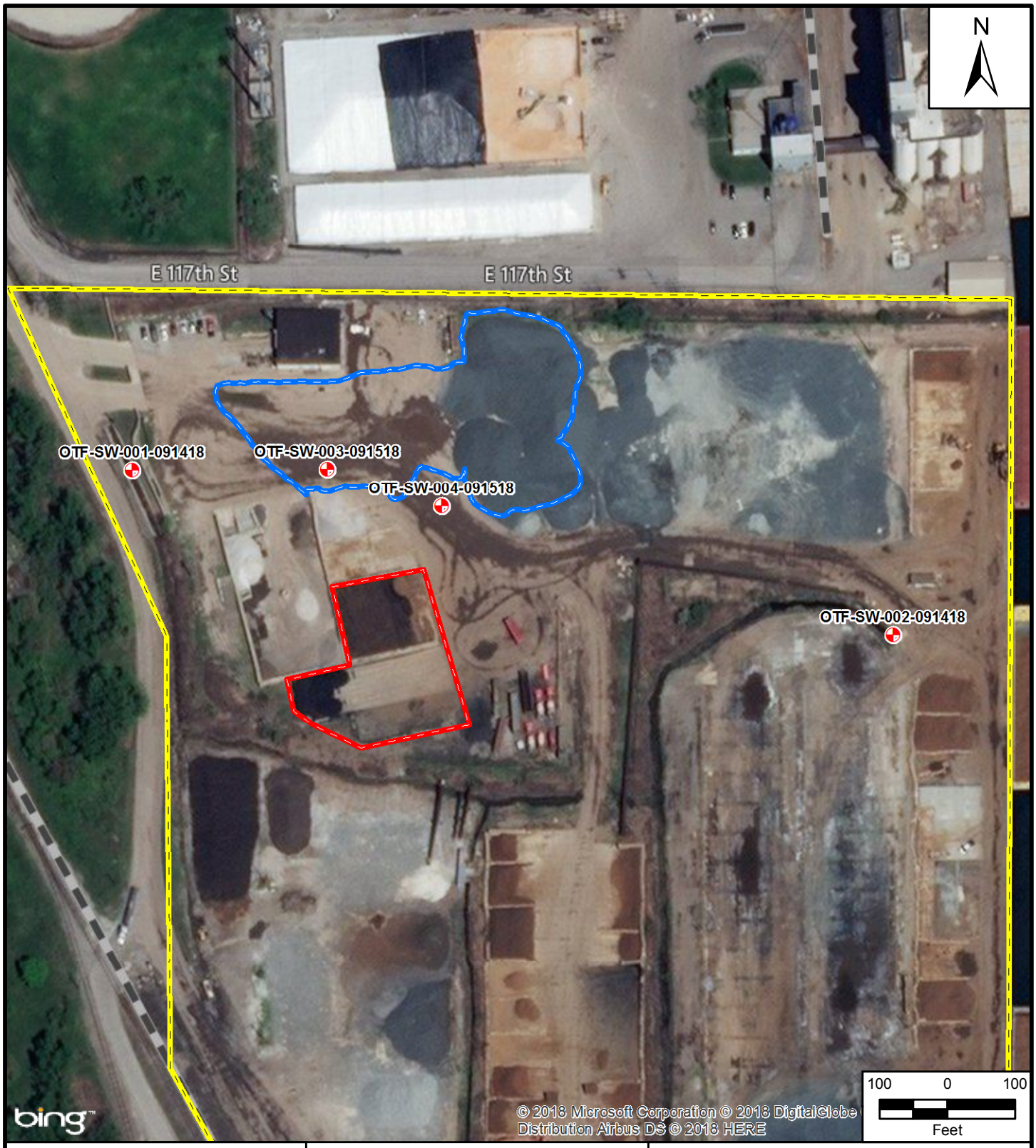
TETRA TECH

Prepared For: USEPA | Prepared By: Tetra Tech, Inc.

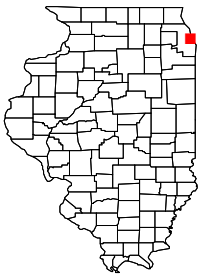
File Path: G:\G\G9026-START IV\Illinois\Ozinga Tire Fire\mxd\OzingaTireFire_3.mxd

Date Saved: 10/8/2018

EPA Contract No.: EP-S5-13-01 TDD No.: S05-0001-1603-005 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter




**Reference Map**



**Legend**

- Surface Water Samples
- Main Runoff Pooling Area
- Approximate Tire Fire Boundary
- Approximate Site Boundary

Source: Modified from Bing Maps Hybrid (2011-2012).

Ozinga Tire Fire Emergency Response
Chicago, Cook County, Illinois

**Figure 4**
***Surface Water Sample Map***

TETRA TECH

Prepared For: USEPA | Prepared By: Tetra Tech, Inc.

File Path: G:\G\G9026-START IV\Illinois\Ozinga Tire Fire\mxd\OzingaTireFire_4.mxd

Date Saved: 10/8/2018

EPA Contract No.: EP-S5-13-01 TDD No.: S05-0001-1603-005 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter

# APPENDIX B

**TABLES**

(5 Pages)

Appendix B
Table A
Surface Water Sample Results

| Analyte Group | Analyte | Illinois Pollution Control Board Water Quality Standards | Illinois EPA TACO Tier 1 Class I Groundwater Remediation Objectives | EPA Maximum Contaminant Level (MCL) | Sample Name | OTF-SW-01-091418 | | OTF-SW-02-091518 | | OTF-SW-03-091518 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Collection Date/Time | 9/14/2018 20:50 | | 9/15/2018 0:40 | | 9/15/2018 1:10 | |
| | | | | | Units | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| SVOCs | 2-Methylphenol | -- | 350 | -- | µg/L | **610** | | 250 | U | 250 | U |
| | 3&4-Methylphenol | -- | -- | -- | µg/L | **560** | | 250 | U | 250 | U |
| | Acetophenone | -- | -- | -- | µg/L | **140** | | 50 | U | **53** | |
| | Caprolactam | -- | -- | -- | µg/L | **11,000** | | **2,800** | | **1,200** | |
| | Phenol | 100 | 100 | -- | µg/L | **970** | | 250 | U | 250 | U |
| VOCs | 2-Butanone | -- | -- | -- | µg/L | **880** | | **300** | | **91** | |
| | 4-Methyl-2-pentanone | -- | -- | -- | µg/L | **750** | | **460** | | **190** | |
| | Acetone | -- | 6,300 | -- | µg/L | **4,300** | | **1,900** | | **420** | |
| | Benzene | 310 | 5 | 5 | µg/L | **470** | | **87** | | **20** | |
| | Chloromethane | -- | -- | -- | µg/L | 25 | U | 10 | U | **3.6** | |
| | Ethylbenzene | 14 | 700 | 700 | µg/L | **56** | | 10 | U | **3.7** | |
| | m,p-Xylene | -- | -- | -- | µg/L | **110** | | 20 | U | **9** | |
| | o-Xylene | -- | -- | -- | µg/L | **26** | | 10 | U | **2.1** | |
| | Styrene | -- | 100 | 100 | µg/L | **86** | | 10 | U | **5.5** | |
| | Toluene | -- | 1000 | 1000 | µg/L | **290** | | **38** | | **15** | |

**Notes:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| SVOC | Semivolatile Organic Compound |
| TACO | Tiered Approach to Corrective Action |
| U | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit) |
| µg/L | Micrograms per Liter |
| VOC | Volatile Organic Compound |

Appendix B

Table B

Air Monitoring Results

| AA-01 | | | | | | |
|---|---|---|---|---|---|---|
| Date | Time | Instrument | Analyte | Min | Max | TWA |
| 9/14/2018 | 21:47 | MultiRAE Pro | VOC (ppb) | NA | 1770 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.015 | 0.017 | 0.001 |
| | | | PM 10 (mg/m$^3$) | 0.015 | 0.017 | 0.001 |
| 9/15/2018 | 12:12 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.016 | 0.018 | 0.001 |
| | | | PM 10 (mg/m$^3$) | 0.016 | 0.02 | 0.001 |
| | 15:50 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.019 | 0.022 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.019 | 0.022 | 0 |
| | 21:55 | AreaRAE Pro | VOC (ppb) | NA | 760 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0.4 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0 | 0.02 | 0.001 |
| | | | PM 10 (mg/m$^3$) | 0 | 0.02 | 0.001 |
| **AA-02** | | | | | | |
| 9/14/2018 | 22:08 | MultiRAE Pro | VOC (ppb) | NA | 2000 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.015 | 0.016 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.015 | 0.016 | 0 |
| 9/15/2018 | 16:10 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.018 | 0.019 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.018 | 0.021 | 0 |

Appendix B

Table B

Air Monitoring Results

| Date | Time | Instrument | Analyte | Min | Max | TWA |
|---|---|---|---|---|---|---|
| **AA-03 and AA-06** | | | | | | |
| 9/14/2018 | 22:35 | MultiRAE Pro | VOC (ppb) | NA | 60 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.016 | 0.019 | 0.001 |
| | | | PM 10 (mg/m$^3$) | 0.016 | 0.019 | 0.001 |
| 9/15/2018 | 2:31 | MultiRAE Pro | VOC (ppb) | NA | 800 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.022 | 0.025 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.022 | 0.025 | 0 |
| | 22:43 | AreaRAE Pro | VOC (ppb) | NA | 150 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.02 | 0.022 | 0.001 |
| | | | PM 10 (mg/m$^3$) | 0.02 | 0.022 | 0.001 |
| **AA-04** | | | | | | |
| 9/14/2018 | 22:59 | MultiRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.016 | 0.018 | 0.001 |
| | | | PM 10 (mg/m$^3$) | 0.016 | 0.019 | 0.001 |
| 9/15/2018 | 12:51 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.016 | 0.017 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.016 | 0.02 | 0 |
| | 16:32 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.017 | 0.018 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.017 | 0.018 | 0 |

Appendix B
Table B
Air Monitoring Results

| Date | Time | Instrument | Analyte | Min | Max | TWA |
|---|---|---|---|---|---|---|
| | 23:05 | AreaRAE Pro | VOC (ppb) | NA | 160 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.02 | 0.02 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.02 | 0.022 | 0 |
| **AA-05** | | | | | | |
| 9/15/2018 | 2:18 | MultiRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.019 | 0.021 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.019 | 0.021 | 0 |
| **AA-07** | | | | | | |
| 9/15/2018 | 4:53 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.025 | 0.031 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.025 | 0.032 | 0 |
| | 13:46 | AreaRAE Pro | VOC (ppb) | NA | 70 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.02 | 0.034 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.02 | 0.035 | 0.024 |
| | 18:15 | AreaRAE Pro | VOC (ppb) | NA | 30 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.001 | 0.004 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.001 | 0.004 | 0 |
| | 23:35 | AreaRAE Pro | VOC (ppb) | NA | 180 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.021 | 0.022 | 0.001 |
| | | | PM 10 (mg/m$^3$) | 0.021 | 0.022 | 0.001 |

Appendix B

Table B

Air Monitoring Results

| Date | Time | Instrument | Analyte | Min | Max | TWA |
|---|---|---|---|---|---|---|
| **AA-08** | | | | | | |
| 9/15/2018 | 4:57 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.033 | 0.037 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.033 | 0.037 | 0 |
| **AA-09** | | | | | | |
| 9/15/2018 | 13:14 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.015 | 0.016 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.016 | 0.016 | 0 |
| | 16:50 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.016 | 0.017 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.016 | 0.018 | 0 |
| **AA-10** | | | | | | |
| 9/15/2018 | 13:38 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.018 | 0.02 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.019 | 0.02 | 0 |
| | 17:04 | AreaRAE Pro | VOC (ppb) | NA | 0 | NA |
| | | | H2S (ppm) | NA | 0 | NA |
| | | | CO (ppm) | NA | 0 | NA |
| | | | LEL (%) | NA | 0 | NA |
| | | MultiRAE Benzene | Benzene (ppm) | NA | 0 | NA |
| | | DustTrak DRX | PM 2.5 (mg/m$^3$) | 0.014 | 0.016 | 0 |
| | | | PM 10 (mg/m$^3$) | 0.014 | 0.016 | 0 |

# APPENDIX C

## PHOTOGRAPHIC LOG

(8 Pages)

# Photographic Documentation

**Client: USEPA**
**Site Name: Ozinga Tire Fire ER**
**Location: Chicago, Illinois**

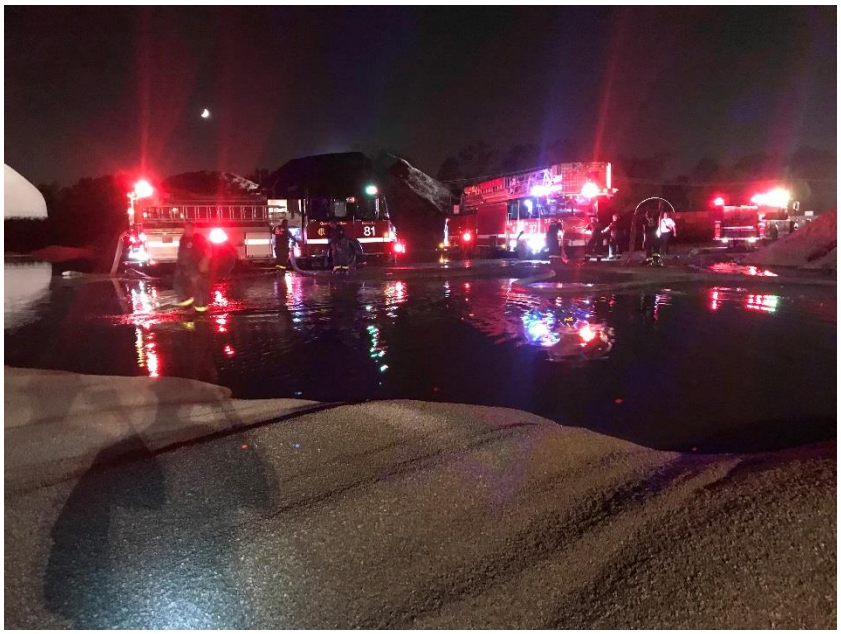
**Prepared by: Matt Villicana**
**TDD Number: 103X90260004S051809205**
**Dates: September 14-15, 2018**

| | |
|---|---|
| **Photograph No. 1**<br><br>**Date: September 14, 2018**<br><br>**Description: Sorbent boom that had been placed in a creek leading to the Grand Calumet River by Ozinga contractors.** | |
| **Photograph No. 2**<br><br>**Date: September 14, 2018**<br><br>**Description: Drums of 3% Aqueous Film Forming Foam (AFFF) that had been brought in by the Chicago Fire Department (CFD) to refill the Aircraft Rescue and Firefighting (ARFF) Crash Truck.** | |

## Photographic Documentation

**Client: USEPA**
**Site Name: Ozinga Tire Fire ER**
**Location: Chicago, Illinois**

**Prepared by: Matt Villicana**
**TDD Number: 103X90260004S051809205**
**Dates: September 14-15, 2018**

| | |
|---|---|
| **Photograph No. 3**<br><br>**Date: September 14, 2018**<br><br>**Description: A stream of fire suppression runoff running east, towards the Grand Calumet River.** | |
| **Photograph No. 4**<br><br>**Date: September 14, 2018**<br><br>**Description: View of several CFD apparatuses around a pool of fire suppression runoff.** |  |

## Photographic Documentation

**Client: USEPA**
**Site Name: Ozinga Tire Fire ER**
**Location: Chicago, Illinois**

**Prepared by: Matt Villicana**
**TDD Number: 103X90260004S051809205**
**Dates: September 14-15, 2018**

| | |
|---|---|
| **Photograph No. 5**<br><br>**Date: September 14, 2018**<br><br>**Description: View of earthen dams created by Ozinga to prevent migration of runoff towards the Grand Calumet River.** | |
| **Photograph No. 6**<br><br>**Date: September 14, 2018**<br><br>**Description: View of START collecting a sheen net sample from a pool of fire suppression runoff near the entrance of the Ozinga property (OTF-SW-001-091418).** | |

## Photographic Documentation

**Client: USEPA**
**Site Name: Ozinga Tire Fire ER**
**Location: Chicago, Illinois**

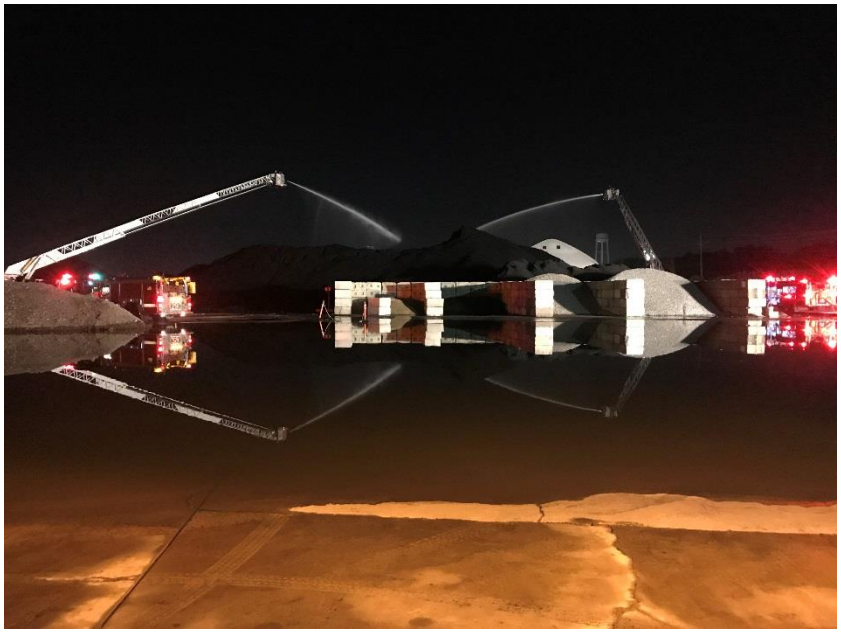
**Prepared by: Matt Villicana**
**TDD Number: 103X90260004S051809205**
**Dates: September 14-15, 2018**

| | |
|---|---|
| **Photograph No. 7**<br><br>**Date: September 14, 2018**<br><br>**Description: View of an air monitoring setup at one of the monitoring locations.** | |
| **Photograph No. 8**<br><br>**Date: September 14, 2018**<br><br>**Description: View of the CFD ARFF Crash Truck spraying 3% AFFF solution on the tire piles in an attempt to smother the smoldering fire.** | |

## Photographic Documentation

**Client: USEPA**
**Site Name: Ozinga Tire Fire ER**
**Location: Chicago, Illinois**

**Prepared by: Matt Villicana**
**TDD Number: 103X90260004S051809205**
**Dates: September 14-15, 2018**

| | |
|---|---|
| **Photograph No. 9**<br><br>**Date: September 15, 2018**<br><br>**Description: View of two CFD Tower Ladder apparatuses flowing water onto the piles to prevent any flare-ups during the night, until Ozinga could get front loader operators on site to start breaking up the piles.** |  |
| **Photograph No. 10**<br><br>**Date: September 15, 2018**<br><br>**Description: A entrance to an underground culvert where fire suppression runoff was observed to be flowing.** | |

## Photographic Documentation

**Client: USEPA**
**Site Name: Ozinga Tire Fire ER**
**Location: Chicago, Illinois**

**Prepared by: Matt Villicana**
**TDD Number: 103X90260004S051809205**
**Dates: September 14-15, 2018**

| | |
|---|---|
| **Photograph No. 11**<br><br>**Date: September 15, 2018**<br><br>**Description: The entrance to the underground culvert after Ozinga contractors had created an earthen dam to prevent any further fire suppression runoff from entering the culvert.** | |
| **Photograph No. 12**<br><br>**Date: September 15, 2018**<br><br>**Description: The CFD Marine Unit docked in the Grand Calumet River, at the eastern side of the property, to provide water to firefighting apparatuses on the eastern side of the site.** | |

# Photographic Documentation

**Client: USEPA**
**Site Name: Ozinga Tire Fire ER**
**Location: Chicago, Illinois**

**Prepared by: Matt Villicana**
**TDD Number: 103X90260004S051809205**
**Dates: September 14-15, 2018**

| | |
|---|---|
| **Photograph No. 13**<br><br>**Date: September 15, 2018**<br><br>**Description: Ozinga personnel using front loaders to start breaking up the piles so CFD could fully extinguish the smoldering material.** | |
| **Photograph No. 14**<br><br>**Date: September 15, 2018**<br><br>**Description: START collecting another sheen net sample from a stream of fire suppression runoff that was observed to contain a petroleum sheen (OTF-SW-004-091518).** | |

## Photographic Documentation

**Client: USEPA**
**Site Name: Ozinga Tire Fire ER**
**Location: Chicago, Illinois**

**Prepared by: Matt Villicana**
**TDD Number: 103X90260004S051809205**
**Dates: September 14-15, 2018**

| | |
|---|---|
| **Photograph No. 15**<br><br>**Date: September 15, 2018**<br><br>**Description: CFD utilizing a tower ladder apparatus to spray down smoldering material as Ozinga personnel broke up the large tire piles.** | |
| **Photograph No. 16**<br><br>**Date: September 15, 2018**<br><br>**Description: CFD continuing to utilize two tower ladder apparatuses to spray down the piles and prevent any flare-ups.** | |

# APPENDIX D

## START FIELD LOGBOOK NOTES

(12 Pages)

OZWGA

Rite in the Rain

ALL-WEATHER

**FIELD**

Nº 351FX

~~Ethanol Industrial~~ AN

2015 START calibrating second MULTIRAE benzene — AN

weather: low 62°F, 10% chance of rain, light variable winds — AN

2048 START prepares to collect water sample from ponding area — AN

2050 START collects OTF-SW-001-091418 from ponding of runoff — AN

2055 START collects sheen sample OTF-SW-001-091418 — AN

Backlog MULTIRAE Pro calibrated — AN

2124 START (NGUYEN & Villicana) begin community air monitoring — AN

2130 Dusttrak DRX006 zero cal & set up with cleared min & peak value on MULTIRAE benzene & MULTIRAE Pro at AA-01 — AN

2135 MULTIRAE Benzene sample collected at AA-01, Benzene = 0 ppm — AN

2147 MULTIRAE Pro Peak = 1770 ppm (VOC), $H_2S$ = 0 ppm, LEL = 0 ppm, CO = 0 ppm — AN

Benzene Peak = 0 ppm — AN

| | $PM_{2.5}$ | $PM_{10}$ | PM 2.5 | PM10 |
|---|---|---|---|---|
| Min | ~~0.052 mg/m³~~ | ~~0.033 mg/m³~~ AN | 0.015 | 0.015 |
| Max | ~~0.052 mg/m³~~ | ~~0.052 mg/m³~~ AN | 0.017 | 0.017 |
| TWA | ~~0.038 mg/m³~~ | ~~0.038 mg/m³~~ AN | 0.001 | 0.001 |



2153 DT DRX006 run begins, MULTIRAE Pro & Benzene cleared. Air monitoring station AA-02 set up at Orville T Bright School

2208 MULTIRAE Pro AA-02

| | VOC | CO | $H_2S$ | LEL |
|---|---|---|---|---|
| Peak | 2 ppm | 0 ppm | 0 ppm | 0% |

MULTIRAE Benzene

| | ~~Peak~~ Benzene | $H_2S$ |
|---|---|---|
| Peak | 0 ppm | 0 ppm |

AN AA-02

| | Max | Min | TWA | MAX | MIN | TWA |
|---|---|---|---|---|---|---|
| $PM_{2.5}$ | ~~0.052~~ | ~~0.032~~ | ~~0.038~~ AN | ~~0.016~~ ~~0.017~~ | 0.015 | 0.000 |
| $PM_{10}$ | ~~0.052~~ | 0.033 | ~~0.038~~ AN | ~~0.016~~ ~~0.017~~ | 0.015 | 0.000 |

2220 DT DRX006 run begins, MULTIRAE Pro & Benzene cleared. ~~Sam~~ Run AA-03 begins — AN

Peak Values at AA-03

2235

| | VOC | CO | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| MULTIRAE Pro | 0.06 ppm | 0 | 0 | 0 | — |
| MULTIRAE Benz | — | — | 0 | — | 0 |

| | Max mg/m³ | Min mg/m³ | TWA mg/m³ |
|---|---|---|---|
| $PM_{2.5}$ | 0.019 | 0.016 | 0.001 |
| $PM_{10}$ | 0.019 | 0.016 | 0.001 |

2244 DT DRX006 set up w/ cleared MULTIRAE Pro & Benzene at Walgreens, AA-04

Rite in the Rain

Friday 9-14-18

# Ozinga Tire Fire

2259 Peak Values at AA-04

| | VOC | CO | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| MultiRAE Pro | 0 | 0 | 0 | 0% | — |
| Benzene | — | — | 0 | — | 0 |

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| $PM_{2.5}$ | 0.016 | 0.018 | 0.001 |
| $PM_{10}$ | 0.016 | 0.019 | 0.001 |

2330 START returns to START van & touch base with OSC

0026 START (NGUYEN & Villicana) collects surface water sample for SVOC & VOC, Ozinga rep present for sampling — AW

0040 START collects OTF-SW-002-091518



Saturday 9-15-18

# Ozinga Fire Tire

0026 START (NGUYEN & Villicana) collects surface water sample for SVOC & VOC, Ozinga rep present for sampling

0040 START collects OTF-SW-002-091518

0103 START prepares to collect surface water sample from main parking area

0110 START collects OTF-SW-003-091518

0115 START collect sheen sample at SW-003

0213 START (NGUYEN & Villicana) set up DT DRX 006 & clear MultiRAE Pro & Benzene — AW

0218 Peak at AA-05

| | VOC | CO | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| MultiRAE Pro | 0.245 ppm | 0 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| $PM_{2.5}$ | 0.019 | 0.021 | 0 |
| $PM_{10}$ | 0.019 | 0.021 | 0 |

0231 DT DRX 006 set up with MultiRAE Pro & Benzene at AA-06 — AW

Peak Values at AA-06

| | VOC | CO | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| MultiRAE Pro | 0 | 0 | 0 | 0 | — |
| Benzene (cont.) | 0 | 0 | 0 | — | 0 |

— AW

Rite in the Rain

Saturday 9-15-18 — Ozinga Tire Fire

(Cont.)

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| PM2.5 | 0.022 | 0.025 | 0 |
| PM10 | 0.022 | 0.025 | 0 |

0330 START returns to Ozinga site ——— AN

0420 AreaRAE calibration due to dead MultiRAE battery

| | CO | VOC | $H_2S$ | LEL | $O_2$ |
|---|---|---|---|---|---|
| Fresh | 0 | 0 | 0 | 0 | 20.9 |
| | 80.1 | 104 | 10.2 | 50 | 18 |

0445 DT DRX 006 set up with multi-RAE Benzene & AreaRAE 001-4 on SW side of Tire Pile on side road at AA-07 ——— AN

0453 Peak Values at AA-7

| | CO | VOC | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| PM2.5 | 0.025 | 0.031 | 0 |
| PM10 | 0.025 | 0.032 | 0 |

0457 DT DRX 006 set up near Ozinga entrance with cleared MultiRAE benzene & AreaRAE at AA-08 ——— AN

(Cont.)

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| PM2.5 | 0.033 | 0.037 | 0 |
| PM10 | 0.033 | 0.037 | 0 |



Saturday 9-15-18 — Ozinga Tire Fire

(Cont.) Peak Values at AA-08

| | CO | VOC | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

0530 START inspects culvert where SW-02 was sampled to estimate amount of water. Ozinga already filled area ——— AN

0700 START collects surface sheen sample from runoff near tire pile | OTF-SW-04-091518 collected

0710 START (Swilik) onsite ——— AN

0900 START (Knox) onsite ——— KK

1154 START (Knox, Swilik) begin community air monitoring

1157 Set up DT DRX 006 + begin run at AA-01, intersection of Torrence & 109th, set out Area RAE 001-4 + Multi-RAE Benzene

1212 Peak Values at AA-01

| | CO | VOC | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| PM2.5 | ~~0.032~~ KK 0.014 | ~~0.052~~ KK 0.018 | ~~0.038~~ KK 0.001 |
| PM10 | ~~0.033~~ KK 0.016 | ~~0.052~~ KK 0.020 | ~~0.039~~ KK 0.001 |

9/15/18

1246 Set up DustTrak DRX 006 with cleared MultiRAE Benzene + AreaRAE 001-4 at AA-04, Walgreens Parking lot on S Ave O

1251 Peak Values at AA-04

| ~~AreaRAE~~ | CO | $H_2S$ | LEL | VOC | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | 0 | — | — | 0 |

| | min mg/m³ | max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| PM2.5 | 0.016 | 0.017 | 0.00 |
| PM 10 | 0.016 | 0.020 | 0.00 |

1309 Set up DT DRX 006 w/ cleared MultiRAE Benzene + AreaRAE 001-4 at AA-09, ~~intersection of~~ SW corner of Mann Park

1314 Peak Values at AA-09

| | CO | VOC | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

| | ~~min mg/m³~~ | ~~max mg/m³~~ | TWA mg/m³ | min mg/m³ | max mg/m³ |
|---|---|---|---|---|---|
| PM 2.5 | ~~0.032~~ | ~~0.052KK~~ | ~~0.038~~ 0.00 | 0.015 | 0.016 |
| PM 10 | ~~0.033~~ | ~~0.052K~~ | ~~0.038~~ 0.00 | 0.016 | 0.016 |

1333 Set up DT DRX 006 w/ cleared MultiRAE Benzene + AreaRAE 001-4 at AA-10, Indian Ridge marsh, ~120th + Torrence (cont).



1338 Peak Values at AA-10/Indian Marsh Ridge

| | CO | $H_2S$ | LEL | VOC | Benzene |
|---|---|---|---|---|---|
| AreaRae | 0 | 0 | 0 | 0 | — |
| Benzene | — | 0 | — | — | 0 |

| | min (mg/m³) | max (mg/m³) | TWA (mg/m³) |
|---|---|---|---|
| ~~$PM_{2.5}$~~ | ~~0.018~~ ~~0.034KK~~ | ~~0.052~~ 0.02 | ~~0.038KK~~ 0.00 |
| $PM_{10}$ | 0.019 ~~0.034K~~ | 0.02 ~~0.052KK~~ | ~~0.038KK~~ 0.00 |

1346 Set up DT DRX 006 w/ cleared multiRAE benzene + areaRAE 001-4 at AA-07, northwest of tire fire pile

| 1356 | CO | $H_2S$ | LEL | VOC | Benzene |
|---|---|---|---|---|---|
| AreaRae | 0 | 0 | 0 | 70 ppb | — |
| Benzene | — | 0 | — | — | — |

| | min (mg/m³) | max (mg/m³) | TWA (mg/m³) |
|---|---|---|---|
| $PM_{2.5}$ | 0.020 | 0.034 | 0.00 |
| $PM_{10}$ | 0.020 | 0.035 ~~0.052KK~~ | 0.024 ~~0.038KK~~ |

Note: truck activity along road

1550 Set up DT DRX 006 w/ cleared multiRAE benzene + areaRAE 001-4 at AA-01, Torrence + 109th

Peak Values at AA-01

| | CO | $H_2S$ | LEL | VOC | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | 0 | — | — | 0 |

(cont)

Rite in the Rain

| | min (mg/m³) | max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| PM2.5 | 0.019 | 0.022 | 0 |
| PM10 | 0.019 | 0.022 | 0 |

1605 Set up Dust Trak DRX 006 w/ cleared AreaRAE + multiRAE benzene at AA02, Orville T Bright School

1610 (Peak)

| | CO | H2S | LEL | VOC | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | 0 | — | — | 0 |

| | min (mg/m³) | max (mg/m³) | TWA (mg/m³) |
|---|---|---|---|
| PM2.5 | 0.018 | 0.019 | 0 |
| PM10 | 0.018 | 0.021 | 0 |

1627 Set up DT DRX-006 w/ cleared AreaRAE + multiRAE benzene at AA-04, Walgreens on Ave O

1632 Peak Values at AA-04

| ~~Area~~ | CO | H2S | LEL | VOC | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | 0 | — | — | 0 |

| ~~1632~~ | min (mg/m³) | max (mg/m³) | TWA (mg/m³) |
|---|---|---|---|
| PM2.5 | 0.017 | 0.018 | 0 |
| PM10 | 0.017 | 0.018 | 0 |

1645 Set up DT DRX-006 w/ cleared AreaRAE + multiRAE benzene at AA-09, Mann Park, SW corner

(cont)



1650 Peak Values at AA-09

| ~~AAK~~ | CO | H2S | LEL | VOC | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | 0 | — | — | 0 |

| | min (mg/m³) | max (mg/m³) | TWA (mg/m³) |
|---|---|---|---|
| PM2.5 | 0.016 | 0.017 | 0 |
| PM10 | 0.016 | 0.018 | 0 |

1704 Setup DT DRX-006 w/ cleared AreaRAE + multiRAE benzene at AA-10, Indian Ridge Marsh

Peak Values at AA-10

| | CO | H2S | LEL | VOC | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 0 | — |
| Benzene | — | 0 | — | — | 0 |

| | min (mg/m³) | max (mg/m³) | TWA (mg/m³) |
|---|---|---|---|
| PM2.5 | 0.014 | 0.016 | 0 |
| PM10 | 0.014 | 0.016 | 0 |

1805 Setup DT DRX-006 w/ cleared AreaRAE + multiRAE benzene at AA-07 northwest of the fire pile

1815 Peak values at AA-07

| | CO | H2S | LEL | VOC (ppb) | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0 | 0 | 30 ppb | — |
| Benzene | — | 0 | — | — | 0 |

9/15/18

| | Min (mg/m³) | Max (mg/m³) | TWA (mg/m³) |
|---|---|---|---|
| PM 2.5 | 0.001 | 0.004 | 0 |
| PM 10 | 0.001 | 0.004 | 0 |

1915 OSC Farrar onsite; hand off w/ OSC Mendez

2100 START Swilik & Knox offsite. START NGUYEN & BUTTON onsite at 2100

2110 AreaRAE 001 calibration

2112 OSC Farrar notifies START that Ozinga will spread out main tire pile throughout the night

START sets up Dusttrak DRX & zero cal at AA-01 at corner of Torrence & 109th. Record peak at AA-01

2200

| | CO | VOC | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0.4 | 0.76 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| $PM_{2.5}$ | 0 | 0.02 | 0.001 |
| $PM_{10}$ | 0 | 0.02 | 0.001 |

2227 Dusttrak DRX 001 set up at AA-03 with cleared AreaRAE 001 & Benzene

2243 Peak at AA-03

| | VOC | CO | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0.15 | 0 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

Saturday 9-15-18

Ozinga Tire Fire



| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| $PM_{2.5}$ | 0.020 | 0.022 | 0.001 |
| $PM_{10}$ | 0.020 | 0.022 | 0.001 |

2280 DT DRX 001 set up with cleared AreaRAE & Benzene at AA-04

2305 Peak at AA-04

| | CO | VOC | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0.10 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| $PM_{2.5}$ | 0.02 | 0.02 | 0 |
| $PM_{10}$ | 0.02 | 0.022 | 0 |

2320 DT DRX 001 set up with cleared AreaRAE & Benzene at AA-07

2335 Peak at AA-07

| | CO | VOC | $H_2S$ | LEL | Benzene |
|---|---|---|---|---|---|
| AreaRAE | 0 | 0.18 | 0 | 0 | — |
| Benzene | — | — | 0 | — | 0 |

| | Min mg/m³ | Max mg/m³ | TWA mg/m³ |
|---|---|---|---|
| $PM_{2.5}$ | 0.021 | 0.022 | 0.001 |
| $PM_{10}$ | 0.021 | 0.022 | 0.001 |

2355 OSC Farrar dismisses START due to low air monitoring results

Rite in the Rain

OZINGA

Rite in the Rain

ALL-WEATHER

**FIELD**

№ 351FX

Friday
9-14-18

1920 START (Button & Nguyen) arrive at command post — AN

1920 START calibrates MultiRAE Benzene

1934 ~~Bom~~ absorbent boom laid out ~~[illegible]~~ in waterway — AN

1945 START Villicana onsite — AN

1950 OSC Kendrick & Mendez request START to collect water sample

2000 - EPA + START walk South west Portion of property w/ MultiRAE Benzene; took sample 1.5 ppm, VOC high = 7.9 ppm

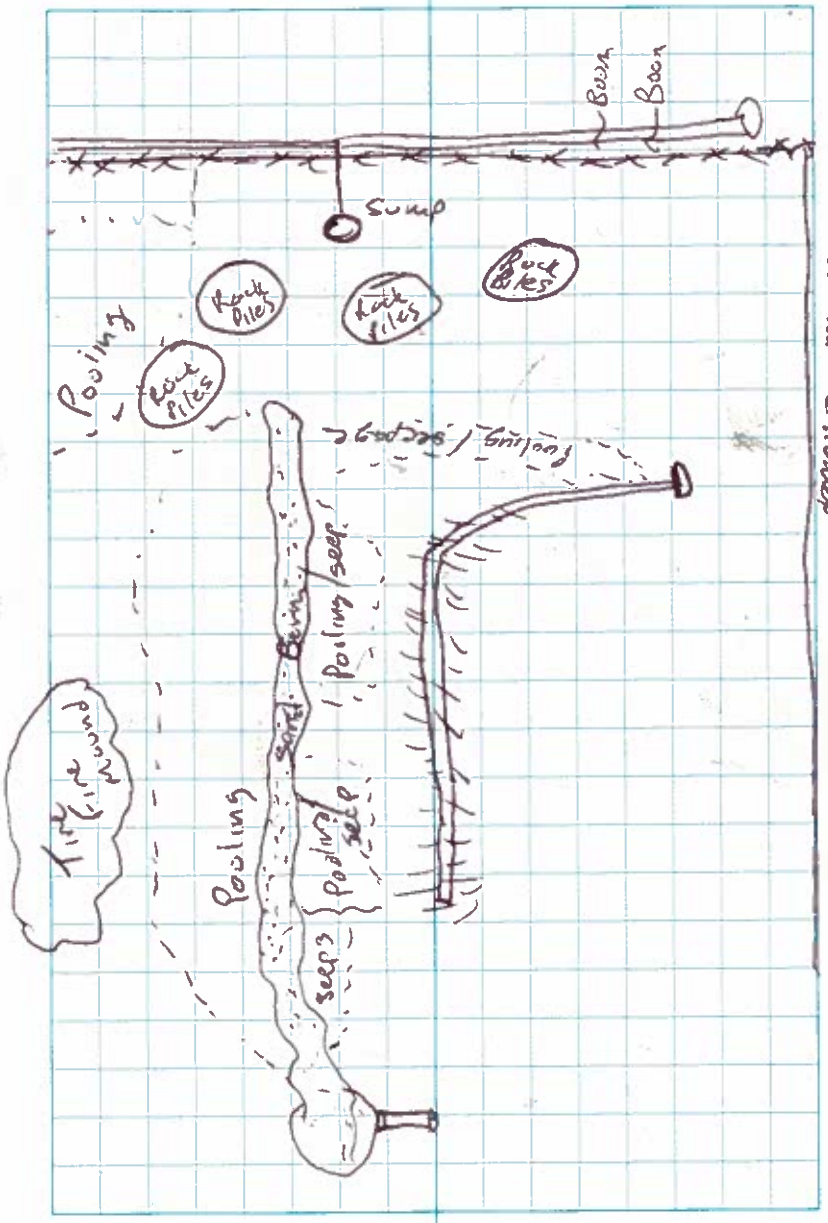
2010 - Mike Todd - Chicago Dept P.H.
Bernice Cavin - MLD

2020 - Air monitoring in community to Southwest + East to occur after water sampling

2040 - Ozinga doesn't own property; owner is Chicago Port Authority; Ozinga Brought 4 vac trucks, 2 frac tanks + Barge for holding water — JB

2045 - CFD brings Foam truck dewatering some water treats





2135 - Ozinga mobilizing vac trucks to pooling/seepage areas as shown on sketch on page 3

* Backnote

2100 - CFD using foam on fire pile in hopes to put hot spots/smoldering piles out

2135 - CFD applying 2nd round

2206 - EPA + START doing Perimeter walk, max VOC = 1.1 ppm

2220 - 3'd round of foam

2245 - CFD going to switch back to water w/ hopes of percolating foam through pile

2330 - Water pools receeding from pumping to frac tanks; no estimated vol yet

2336 - CFD spraying water on fire pile

0030 - CFD spraying Foam on pile, pile still smoldering



9/15/18

0100 - CFD going to continue w/ method of foaming + spraying water onto pile, Vac trucks for Ozinga still collecting seepage + pooling points

0200 - CFD switching back to water; changing out engines + ladder trucks

0310 - Continuing w/ water, more engines arrive onsite

0336 - Three vac trucks in rotation 1 sunpro + 2 serenity focusing on culvert + pooling area to the east of fire pile

0445 - Ozinga filled in culvert with gravel + fine sand as extra prevention from discharge to Grand Cal

0543 - Ozinga begins pulling pile apart + CFD spraying small smoldering piles

0700 - continue small piles w/ excavators

Rite in the Rain

Saturday
9/15/18

0710 - START Swilik arrives onsite for change over + walk through

0730 - Site walk w/ mike from Ozinga showing preventative boom location at outfall to eastern most culvert; no sheen or discharge observed

0735 - CFD doing truck + personnel rotation, Ozinga takes dozers out of tire fire pile for quick fixes + break ——— JS

0815 - OSC Mendez back onsite for change over with OSC Kendrick; Mike from Ozinga asking for input for briefing w/ management

0830 - START Villicana offsite ——— JS

1000 - update from Ozinga call
- 6 vac trucks
- continue unloading into barge
- same pile protocols
- only using river water for boats ——— JS



1102 START KVC onsite to pick up VOC water samples ——— KK

1110 Handoff from START Button-Hutchens to START Knox + Swilik w/ OSC Mendez

1113 Site walk w/ EPA, ERRS, City of Chicago + Metro Water Reclamation District ——— KK

1123 Berm ~~west~~ KK west of tire fire pile to prevent runoff water from reaching drainage ditch to drain; plugged with gravel + boom

1145 Knox and Swilik ~~tour~~ go into community for air monitoring

1400 Knox and Swilik back at tire fire pile
~53,000 gal and ~35,000 gal frac tanks
get water in front of tire fire pile but cant put water into barge. Leave water in frac tank for now.

1515 2 ~ 33,000 gal vac trucks sucked water from in front of tire fire pile to ~~frac~~ KK frac tanks

1540 2 ~ 33,000 gal additional vac

Rite in the Rain

Saturday 9/15/18

trucks suck water from in front of ~~fire~~ fire pile to frac tanks

1542 Chicago fire department continue deploying water from ladder truck on pile

1545 START leave site to conduct community air monitoring

1614 START back onsite, ~~10 frac~~ 9 frac tanks on site, CFD continue spraying pile w/ water from neighboring property's hydrant —— VK

1722 Update OSC Mendez & Chicago Health Dept. on air monitoring; no reading above action levels

1724 ~~Fres~~ Water sucked up from in front of tire fire pile by vac trucks —— KK

1745 START conducts site walk. More sand was added to the berm before the ditch leading to drain. 3 ~~ber~~ booms are in the stream north of the tire fire pile that leads to the Calumet River

1800 EES transferring water from



Saturday 9/15/18

Vac trucks to frac tanks —— KK

1850 weather: 73°F, Sunny, 74% humidity, 7mph wind from N. —— SS

1905 OSC (Farro) on site. Two vac trucks suck water (~33000 gal each)

1920 Firefighters switch to spraying the southeast pile of ~~tire fire~~ pile

1940 OSC Mendez leaves site

2010 START (Nguyen) on-site

2020 START (Button) on-site

Continued in other logbook

9/15/18

Rite in the Rain

# APPENDIX E

## DATA VALIDATION REPORTS

(19 Pages)

# DATA VALIDATION CHECKLIST – STAGE 4
# EPA REGION 5 START CONTRACT

| | | | | |
|---|---|---|---|---|
| **Site Name** | Ozinga Tire Fire | | **TDD No.** | S05-0004-1809-205 |
| **Document Tracking No.** | 2665 | | | |
| **Data Reviewer (signature and date)** | October 29, 2018 | | **Technical Reviewer (signature and date)** | October 30, 2018 |
| **Laboratory Report No.** | 1809940 | | **Laboratory** | ALS Environmental/Holland, MI |
| **Analyses** | Volatile organic compounds (VOC) by SW-846 Method 8260C; semivolatile organic compounds (SVOC) by SW-846 Method 8270D | | | |
| **Samples and Matrix** | Three surface water samples | | | |
| **Field Duplicate Pairs** | NA | | | |
| **Field Blanks** | NA | | | |

**INTRODUCTION**

This checklist summarizes the Stage 4 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the *Tetra Tech Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START IV), EPA Region 5,* (June 2016) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2017).

**OVERALL EVALUATION**

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | |

**Sample preservation, receipt, and holding times:**

| Within Criteria | Exceedance/Notes |
|---|---|
| N | Custody seals were not present on the shipping container or sample containers. No evidence of tampering was noted by the laboratory and no qualifications were applied.<br>The laboratory reported that the temperature blank was at 9.6 degrees Celsius. All VOC data was flagged as estimated with a potential negative bias (J- for detects and UJ for nondetects) due to this deviation from the method requirements.<br>The laboratory reported that VOA vials did not have zero headspace; all VOC results in all samples were qualified as estimated and biased low (J- for detects and UJ for nondetects). |

**Instrument Performance Checks:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | |

**Initial Calibration:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | VOC: The initial calibration linearity for some compounds were evaluated based on a quadratic equation, versus the relative standard deviation criteria as provided in the START QAPP. The relative standard deviation for styrene and trans-1,3-dichloroethene exceeded the 20% method criteria. These compounds, and others, were quantitated against a quadratic curve and no qualifiers have been applied.<br><br>SVOC: The initial calibration linearity was evaluated for all compounds based on a quadratic equation, versus the relative standard deviation criteria as provided in the START QAPP. The relative standard deviation exceeded the NFG criteria for many compounds, but they were quantitated against a quadratic curve and no qualifiers have been applied. |

**Continuing Calibration:**

| Within Criteria | Exceedance/Notes |
|---|---|
| N | VOC: The %D value for bromomethane was above the NFG opening CCV criteria of 30%, at 66.6%. Bromomethane nondetect data were qualified as estimated due to the calibration outlier (UJ). |

**Calibration Verification:**

| Within Criteria | Exceedance/Notes |
|---|---|
| N | VOC: The % D values for cyclohexane and 4-methyl-2-pentanone in the initial calibration verification, at 99% and 67% respectively, were outside the NFG criteria of 25% and 30%. The data for these compounds have been qualified as estimated (J for detects and UJ for nondetects). Note that, while sample preservation exceedances indicated a potential negative bias to all VOC results, the ICV % D exceedances for these two compounds indicated a potential positive bias; therefore, the positive results for these two compounds were flagged "J" due to these competing biases. |

**Method blanks:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | VOC: Benzene and m,p-xylene were reported in the method blank below the reporting limit at 0.55 µg/L and 0.59 µg/L respectively. Detects for these compounds were greater than 10× the amounts in the method blank and no qualifiers were applied |

**Field blanks:**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | |

**Interference Check Samples (ICS) (ICP metals only):**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | |

**System monitoring compounds (surrogates and labeled compounds):**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | SVOCs: The samples were analyzed at a 50× dilutions or greater and the surrogate compounds were diluted out and were therefore not evaluated. Two or more surrogate recoveries exceeded either laboratory or START QAPP recovery limits in all samples; no qualifications were applied to the data. |

**MS/MSD:**

| Within Criteria | Exceedance/Notes |
|---|---|
| N | VOCs: MS/MSD analyses were performed on sample OTF-SW-01-091418. The matrix spike recoveries of bromomethane exceeded the QC limit at 190 and 194%, with laboratory control limits of 30-185%. Bromomethane was not detected in the parent sample, so no qualifiers based on the matrix spike exceedances were required.<br><br>SVOCs: Matrix spike analyses were performed on non-project samples and were therefore not evaluated as part of this data validation effort. |

**Post digestion spikes:**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | |

**Serial dilutions:**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | |

**Laboratory duplicates:**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | SVOCs: Laboratory duplicate analysis was performed on a non-project sample and was therefore not evaluated as part of this data validation effort. |

**Field duplicates:**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | |

**LCSs/LCSDs:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | An LCS, but no LCSD, was performed for both VOC and SVOC analyses. A matrix spike and matrix spike duplicate were performed for the VOC analyses to provide precision data. For the SVOC analyses, a matrix spike and sample duplicate were performed on non-project samples, and therefore the associated precision data were not evaluated as part of this data validation effort. LCS recoveries were within the laboratory control limits as no LCS limits are specified in the START QAPP for VOCs or SVOCs. |

**Sample dilutions:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | VOCs: Samples were analyzed at dilutions for target compound quantitation and reporting limits were elevated accordingly. The most concentrated analyses were 25× for sample OTF-SW-01-091418, 10× for sample OTF-SW-02-091518, and 2× for sample OTF-SW-03-091518.<br><br>SVOCs: Samples were analyzed at 100× for sample OTF-SW-01-091418, 50× for sample OTF-SW-02-091518, and 50× for sample OTF-SW-03-091518. Reporting limits were elevated accordingly. |

**Re-extraction and reanalysis:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | VOCs: Samples were analyzed at additional dilutions (between 10× and 100×) for the quantitation of acetone.<br><br>SVOCs: Sample OTF-SW-01-091418 was analyzed at a dilution of 500× for the quantitation of caprolactam. |

**Second column confirmation (GC and HPLC analyses only):**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | |

**Internal Standards:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | |

**Target analyte identification:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | |

**Analyte quantitation and MDLs/RLs:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | Results between the method detection limit and the reporting limit, if any, were not reported by the laboratory in the samples. |

**Tentatively identified compounds:**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | |

**System performance and instrument stability:**

| Within Criteria | Exceedance/Notes |
|---|---|
| Y | |

**Other [specify]:**

| Within Criteria | Exceedance/Notes |
|---|---|
| NA | |

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

| | |
|---|---|
| J | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample. |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high. |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low. |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample. |
| R | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample. |
| U | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit). |

| | |
|---|---|
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-01-091418 | 1,1,1-Trichloroethane | 8.2 | U | 8.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,1,2,2-Tetrachloroethane | 4.2 | U | 4.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,1,2-Trichloroethane | 5.5 | U | 5.5 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,1,2-Trichlorotrifluoroethane | 4.5 | U | 4.5 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,1-Dichloroethane | 12 | U | 12 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,1-Dichloroethene | 9 | U | 9 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,2,3-Trichlorobenzene | 7.2 | U | 7.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,2,4-Trichlorobenzene | 6.2 | U | 6.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,2-Dibromo-3-chloropropane | 11 | U | 11 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,2-Dibromoethane | 4.2 | U | 4.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,2-Dichlorobenzene | 3 | U | 3 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,2-Dichloroethane | 2.8 | U | 2.8 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,2-Dichloropropane | 8.5 | U | 8.5 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,3-Dichlorobenzene | 3.2 | U | 3.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,4-Dichlorobenzene | 3.2 | U | 3.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 2-Butanone | 880 | | 12 | 120 | ug/L | 880 | J- |
| OTF-SW-01-091418 | 2-Hexanone | 12 | U | 12 | 120 | ug/L | 120 | UJ |
| OTF-SW-01-091418 | 4-Methyl-2-pentanone | 750 | | 13 | 25 | ug/L | 750 | J |
| OTF-SW-01-091418 | Acetone | 4300 | | 47 | 1000 | ug/L | 4300 | J- |
| OTF-SW-01-091418 | Benzene | 470 | | 10 | 25 | ug/L | 470 | J- |
| OTF-SW-01-091418 | Bromochloromethane | 3.8 | U | 3.8 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Bromodichloromethane | 5.5 | U | 5.5 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Bromoform | 14 | U | 14 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Bromomethane | 7.2 | U | 7.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Carbon disulfide | 9.8 | U | 9.8 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Carbon tetrachloride | 8 | U | 8 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Chlorobenzene | 5.2 | U | 5.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Chloroethane | 17 | U | 17 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Chloroform | 12 | U | 12 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Chloromethane | 17 | U | 17 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | cis-1,2-Dichloroethene | 9.5 | U | 9.5 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | cis-1,3-Dichloropropene | 3.2 | U | 3.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Cyclohexane | 4.5 | U | 4.5 | 25 | ug/L | 25 | UJ |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-01-091418 | Dibromochloromethane | 5 | U | 5 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Dichlorodifluoromethane | 7.5 | U | 7.5 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Ethylbenzene | 56 | | 7.2 | 25 | ug/L | 56 | J- |
| OTF-SW-01-091418 | Isopropylbenzene | 4.2 | U | 4.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | m,p-Xylene | 110 | | 13 | 50 | ug/L | 110 | J- |
| OTF-SW-01-091418 | Methyl acetate | 6.5 | U | 6.5 | 50 | ug/L | 50 | UJ |
| OTF-SW-01-091418 | Methyl tert-butyl ether | 5.2 | U | 5.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Methylcyclohexane | 2.2 | U | 2.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Methylene chloride | 4 | U | 4 | 120 | ug/L | 120 | UJ |
| OTF-SW-01-091418 | o-Xylene | 26 | | 4.8 | 25 | ug/L | 26 | J- |
| OTF-SW-01-091418 | Styrene | 86 | | 4.8 | 25 | ug/L | 86 | J- |
| OTF-SW-01-091418 | Tetrachloroethene | 7 | U | 7 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Toluene | 290 | | 8 | 25 | ug/L | 290 | J- |
| OTF-SW-01-091418 | trans-1,2-Dichloroethene | 12 | U | 12 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | trans-1,3-Dichloropropene | 3.8 | U | 3.8 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Trichloroethene | 8.2 | U | 8.2 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Trichlorofluoromethane | 6 | U | 6 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | Vinyl chloride | 13 | U | 13 | 25 | ug/L | 25 | UJ |
| OTF-SW-01-091418 | 1,1`-Biphenyl | 42 | U | 42 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 1,2,4,5-Tetrachlorobenzene | 34 | U | 34 | 1000 | ug/L | 1000 | U |
| OTF-SW-01-091418 | 1,4-Dioxane | 72 | U | 72 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,2`-Oxybis(1-chloropropane) | 23 | U | 23 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,3,4,6-Tetrachlorophenol | 45 | U | 45 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,4,5-Trichlorophenol | 17 | U | 17 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,4,6-Trichlorophenol | 25 | U | 25 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,4-Dichlorophenol | 35 | U | 35 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,4-Dimethylphenol | 36 | U | 36 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,4-Dinitrophenol | 40 | U | 40 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,4-Dinitrotoluene | 42 | U | 42 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2,6-Dinitrotoluene | 11 | U | 11 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2-Chloronaphthalene | 7.5 | U | 7.5 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2-Chlorophenol | 23 | U | 23 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2-Methylnaphthalene | 6.5 | U | 6.5 | 500 | ug/L | 500 | U |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-01-091418 | 2-Methylphenol | 610 | | 25 | 500 | ug/L | 610 | |
| OTF-SW-01-091418 | 2-Nitroaniline | 21 | U | 21 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 2-Nitrophenol | 34 | U | 34 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 3&4-Methylphenol | 560 | | 21 | 500 | ug/L | 560 | |
| OTF-SW-01-091418 | 3,3┤-Dichlorobenzidine | 160 | U | 160 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 3-Nitroaniline | 64 | U | 64 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 4,6-Dinitro-2-methylphenol | 27 | U | 27 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 4-Bromophenyl phenyl ether | 33 | U | 33 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 4-Chloro-3-methylphenol | 26 | U | 26 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 4-Chloroaniline | 34 | U | 34 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 4-Chlorophenyl phenyl ether | 31 | U | 31 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 4-Nitroaniline | 57 | U | 57 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | 4-Nitrophenol | 24 | U | 24 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Acenaphthene | 8.1 | U | 8.1 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Acenaphthylene | 7.5 | U | 7.5 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Acetophenone | 140 | | 37 | 100 | ug/L | 140 | |
| OTF-SW-01-091418 | Anthracene | 2.8 | U | 2.8 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Atrazine | 35 | U | 35 | 100 | ug/L | 100 | U |
| OTF-SW-01-091418 | Benzaldehyde | 52 | U | 52 | 100 | ug/L | 100 | U |
| OTF-SW-01-091418 | Benzo(a)anthracene | 2.2 | U | 2.2 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Benzo(a)pyrene | 4.4 | U | 4.4 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Benzo(b)fluoranthene | 5.1 | U | 5.1 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Benzo(g,h,i)perylene | 3 | U | 3 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Benzo(k)fluoranthene | 4.8 | U | 4.8 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Bis(2-chloroethoxy)methane | 29 | U | 29 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Bis(2-chloroethyl)ether | 37 | U | 37 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Bis(2-chloroisopropyl)ether | 23 | U | 23 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Bis(2-ethylhexyl)phthalate | 40 | U | 40 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Butyl benzyl phthalate | 30 | U | 30 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Caprolactam | 11000 | | 480 | 5000 | ug/L | 11000 | |
| OTF-SW-01-091418 | Carbazole | 10 | U | 10 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Chrysene | 4.8 | U | 4.8 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Dibenzo(a,h)anthracene | 3 | U | 3 | 500 | ug/L | 500 | U |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-01-091418 | Dibenzofuran | 23 | U | 23 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Diethyl phthalate | 17 | U | 17 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Dimethyl phthalate | 18 | U | 18 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Di-n-butyl phthalate | 21 | U | 21 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Di-n-octyl phthalate | 15 | U | 15 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Fluoranthene | 3.8 | U | 3.8 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Fluorene | 5.1 | U | 5.1 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Hexachlorobenzene | 44 | U | 44 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Hexachlorobutadiene | 28 | U | 28 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Hexachlorocyclopentadiene | 110 | U | 110 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Hexachloroethane | 21 | U | 21 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Indeno(1,2,3-cd)pyrene | 6.7 | U | 6.7 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Isophorone | 34 | U | 34 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Naphthalene | 6.7 | U | 6.7 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Nitrobenzene | 26 | U | 26 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | N-Nitrosodi-n-propylamine | 35 | U | 35 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | N-Nitrosodiphenylamine | 23 | U | 23 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Pentachlorophenol | 97 | U | 97 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Phenanthrene | 3 | U | 3 | 500 | ug/L | 500 | U |
| OTF-SW-01-091418 | Phenol | 970 | | 21 | 500 | ug/L | 970 | |
| OTF-SW-01-091418 | Pyrene | 3.6 | U | 3.6 | 500 | ug/L | 500 | U |
| OTF-SW-02-091518 | 1,1,1-Trichloroethane | 3.3 | U | 3.3 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,1,2,2-Tetrachloroethane | 1.7 | U | 1.7 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,1,2-Trichloroethane | 2.2 | U | 2.2 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,1,2-Trichlorotrifluoroethane | 1.8 | U | 1.8 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,1-Dichloroethane | 4.8 | U | 4.8 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,1-Dichloroethene | 3.6 | U | 3.6 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,2,3-Trichlorobenzene | 2.9 | U | 2.9 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,2,4-Trichlorobenzene | 2.5 | U | 2.5 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,2-Dibromo-3-chloropropane | 4.3 | U | 4.3 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,2-Dibromoethane | 1.7 | U | 1.7 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,2-Dichloroethane | 1.1 | U | 1.1 | 10 | ug/L | 10 | UJ |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-02-091518 | 1,2-Dichloropropane | 3.4 | U | 3.4 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,3-Dichlorobenzene | 1.3 | U | 1.3 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,4-Dichlorobenzene | 1.3 | U | 1.3 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 2-Butanone | 300 | | 4.7 | 50 | ug/L | 300 | J- |
| OTF-SW-02-091518 | 2-Hexanone | 5 | U | 5 | 50 | ug/L | 50 | UJ |
| OTF-SW-02-091518 | 4-Methyl-2-pentanone | 460 | | 5.2 | 10 | ug/L | 460 | J |
| OTF-SW-02-091518 | Acetone | 1900 | | 24 | 500 | ug/L | 1900 | J- |
| OTF-SW-02-091518 | Benzene | 87 | | 4.2 | 10 | ug/L | 87 | J- |
| OTF-SW-02-091518 | Bromochloromethane | 1.5 | U | 1.5 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Bromodichloromethane | 2.2 | U | 2.2 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Bromoform | 5.6 | U | 5.6 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Bromomethane | 2.9 | U | 2.9 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Carbon disulfide | 3.9 | U | 3.9 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Carbon tetrachloride | 3.2 | U | 3.2 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Chlorobenzene | 2.1 | U | 2.1 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Chloroethane | 6.8 | U | 6.8 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Chloroform | 4.6 | U | 4.6 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Chloromethane | 6.8 | U | 6.8 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | cis-1,2-Dichloroethene | 3.8 | U | 3.8 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | cis-1,3-Dichloropropene | 1.3 | U | 1.3 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Cyclohexane | 1.8 | U | 1.8 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Dibromochloromethane | 2 | U | 2 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Dichlorodifluoromethane | 3 | U | 3 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Ethylbenzene | 2.9 | U | 2.9 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Isopropylbenzene | 1.7 | U | 1.7 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | m,p-Xylene | 5.3 | U | 5.3 | 20 | ug/L | 20 | UJ |
| OTF-SW-02-091518 | Methyl acetate | 2.6 | U | 2.6 | 20 | ug/L | 20 | UJ |
| OTF-SW-02-091518 | Methyl tert-butyl ether | 2.1 | U | 2.1 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Methylcyclohexane | 0.9 | U | 0.9 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Methylene chloride | 1.6 | U | 1.6 | 50 | ug/L | 50 | UJ |
| OTF-SW-02-091518 | o-Xylene | 1.9 | U | 1.9 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Styrene | 1.9 | U | 1.9 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Tetrachloroethene | 2.8 | U | 2.8 | 10 | ug/L | 10 | UJ |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-02-091518 | Toluene | 38 | | 3.2 | 10 | ug/L | 38 | J- |
| OTF-SW-02-091518 | trans-1,2-Dichloroethene | 4.8 | U | 4.8 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | trans-1,3-Dichloropropene | 1.5 | U | 1.5 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Trichloroethene | 3.3 | U | 3.3 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Trichlorofluoromethane | 2.4 | U | 2.4 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | Vinyl chloride | 5.3 | U | 5.3 | 10 | ug/L | 10 | UJ |
| OTF-SW-02-091518 | 1,1`-Biphenyl | 21 | U | 21 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 1,2,4,5-Tetrachlorobenzene | 17 | U | 17 | 500 | ug/L | 500 | U |
| OTF-SW-02-091518 | 1,4-Dioxane | 36 | U | 36 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,2`-Oxybis(1-chloropropane) | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,3,4,6-Tetrachlorophenol | 22 | U | 22 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,4,5-Trichlorophenol | 8.5 | U | 8.5 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,4,6-Trichlorophenol | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,4-Dichlorophenol | 18 | U | 18 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,4-Dimethylphenol | 18 | U | 18 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,4-Dinitrophenol | 20 | U | 20 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,4-Dinitrotoluene | 21 | U | 21 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2,6-Dinitrotoluene | 5.5 | U | 5.5 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2-Chloronaphthalene | 3.8 | U | 3.8 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2-Chlorophenol | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2-Methylnaphthalene | 3.2 | U | 3.2 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2-Methylphenol | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2-Nitroaniline | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 2-Nitrophenol | 17 | U | 17 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 3&4-Methylphenol | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 3,3┤-Dichlorobenzidine | 80 | U | 80 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 3-Nitroaniline | 32 | U | 32 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 4,6-Dinitro-2-methylphenol | 14 | U | 14 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 4-Bromophenyl phenyl ether | 16 | U | 16 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 4-Chloro-3-methylphenol | 13 | U | 13 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 4-Chloroaniline | 17 | U | 17 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 4-Chlorophenyl phenyl ether | 16 | U | 16 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | 4-Nitroaniline | 28 | U | 28 | 250 | ug/L | 250 | U |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-02-091518 | 4-Nitrophenol | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Acenaphthene | 4 | U | 4 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Acenaphthylene | 3.8 | U | 3.8 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Acetophenone | 18 | U | 18 | 50 | ug/L | 50 | U |
| OTF-SW-02-091518 | Anthracene | 1.4 | U | 1.4 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Atrazine | 18 | U | 18 | 50 | ug/L | 50 | U |
| OTF-SW-02-091518 | Benzaldehyde | 26 | U | 26 | 50 | ug/L | 50 | U |
| OTF-SW-02-091518 | Benzo(a)anthracene | 1.1 | U | 1.1 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Benzo(a)pyrene | 2.2 | U | 2.2 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Benzo(b)fluoranthene | 2.6 | U | 2.6 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Benzo(g,h,i)perylene | 1.5 | U | 1.5 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Benzo(k)fluoranthene | 2.4 | U | 2.4 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Bis(2-chloroethoxy)methane | 14 | U | 14 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Bis(2-chloroethyl)ether | 18 | U | 18 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Bis(2-chloroisopropyl)ether | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Bis(2-ethylhexyl)phthalate | 20 | U | 20 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Butyl benzyl phthalate | 15 | U | 15 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Caprolactam | 2800 | | 48 | 500 | ug/L | 2800 | |
| OTF-SW-02-091518 | Carbazole | 5 | U | 5 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Chrysene | 2.4 | U | 2.4 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Dibenzo(a,h)anthracene | 1.5 | U | 1.5 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Dibenzofuran | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Diethyl phthalate | 8.5 | U | 8.5 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Dimethyl phthalate | 9 | U | 9 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Di-n-butyl phthalate | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Di-n-octyl phthalate | 7.5 | U | 7.5 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Fluoranthene | 1.9 | U | 1.9 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Fluorene | 2.6 | U | 2.6 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Hexachlorobenzene | 22 | U | 22 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Hexachlorobutadiene | 14 | U | 14 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Hexachlorocyclopentadiene | 54 | U | 54 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Hexachloroethane | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Indeno(1,2,3-cd)pyrene | 3.4 | U | 3.4 | 250 | ug/L | 250 | U |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-02-091518 | Isophorone | 17 | U | 17 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Naphthalene | 3.4 | U | 3.4 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Nitrobenzene | 13 | U | 13 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | N-Nitrosodi-n-propylamine | 18 | U | 18 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | N-Nitrosodiphenylamine | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Pentachlorophenol | 48 | U | 48 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Phenanthrene | 1.5 | U | 1.5 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Phenol | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-02-091518 | Pyrene | 1.8 | U | 1.8 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 1,1,1-Trichloroethane | 0.66 | U | 0.66 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,1,2,2-Tetrachloroethane | 0.34 | U | 0.34 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,1,2-Trichloroethane | 0.44 | U | 0.44 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,1,2-Trichlorotrifluoroethane | 0.36 | U | 0.36 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,1-Dichloroethane | 0.96 | U | 0.96 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,1-Dichloroethene | 0.72 | U | 0.72 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,2,3-Trichlorobenzene | 0.58 | U | 0.58 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,2,4-Trichlorobenzene | 0.5 | U | 0.5 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,2-Dibromo-3-chloropropane | 0.86 | U | 0.86 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,2-Dibromoethane | 0.34 | U | 0.34 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,2-Dichlorobenzene | 0.24 | U | 0.24 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,2-Dichloropropane | 0.68 | U | 0.68 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,3-Dichlorobenzene | 0.26 | U | 0.26 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,4-Dichlorobenzene | 0.26 | U | 0.26 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 2-Butanone | 91 | | 0.94 | 10 | ug/L | 91 | J- |
| OTF-SW-03-091518 | 2-Hexanone | 1 | U | 1 | 10 | ug/L | 10 | UJ |
| OTF-SW-03-091518 | 4-Methyl-2-pentanone | 190 | | 1 | 2 | ug/L | 190 | J |
| OTF-SW-03-091518 | Acetone | 420 | | 4.7 | 100 | ug/L | 420 | J- |
| OTF-SW-03-091518 | Benzene | 20 | | 0.84 | 2 | ug/L | 20 | J- |
| OTF-SW-03-091518 | Bromochloromethane | 0.3 | U | 0.3 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Bromodichloromethane | 0.44 | U | 0.44 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Bromoform | 1.1 | U | 1.1 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Bromomethane | 0.58 | U | 0.58 | 2 | ug/L | 2 | UJ |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
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| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-03-091518 | Carbon disulfide | 0.78 | U | 0.78 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Carbon tetrachloride | 0.64 | U | 0.64 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Chlorobenzene | 0.42 | U | 0.42 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Chloroethane | 1.4 | U | 1.4 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Chloroform | 0.92 | U | 0.92 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Chloromethane | 3.6 | | 1.4 | 2 | ug/L | 3.6 | J- |
| OTF-SW-03-091518 | cis-1,2-Dichloroethene | 0.76 | U | 0.76 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | cis-1,3-Dichloropropene | 0.26 | U | 0.26 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Cyclohexane | 0.36 | U | 0.36 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Dibromochloromethane | 0.4 | U | 0.4 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Dichlorodifluoromethane | 0.6 | U | 0.6 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Ethylbenzene | 3.7 | | 0.58 | 2 | ug/L | 3.7 | J- |
| OTF-SW-03-091518 | Isopropylbenzene | 0.34 | U | 0.34 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | m,p-Xylene | 9 | | 1.1 | 4 | ug/L | 9 | J- |
| OTF-SW-03-091518 | Methyl acetate | 0.52 | U | 0.52 | 4 | ug/L | 4 | UJ |
| OTF-SW-03-091518 | Methyl tert-butyl ether | 0.42 | U | 0.42 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Methylcyclohexane | 0.18 | U | 0.18 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Methylene chloride | 0.32 | U | 0.32 | 10 | ug/L | 10 | UJ |
| OTF-SW-03-091518 | o-Xylene | 2.1 | | 0.38 | 2 | ug/L | 2.1 | J- |
| OTF-SW-03-091518 | Styrene | 5.5 | | 0.38 | 2 | ug/L | 5.5 | J- |
| OTF-SW-03-091518 | Tetrachloroethene | 0.56 | U | 0.56 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Toluene | 15 | | 0.64 | 2 | ug/L | 15 | J- |
| OTF-SW-03-091518 | trans-1,2-Dichloroethene | 0.96 | U | 0.96 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | trans-1,3-Dichloropropene | 0.3 | U | 0.3 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Trichloroethene | 0.66 | U | 0.66 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Trichlorofluoromethane | 0.48 | U | 0.48 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | Vinyl chloride | 1.1 | U | 1.1 | 2 | ug/L | 2 | UJ |
| OTF-SW-03-091518 | 1,1`-Biphenyl | 21 | U | 21 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 1,2,4,5-Tetrachlorobenzene | 17 | U | 17 | 500 | ug/L | 500 | U |
| OTF-SW-03-091518 | 1,4-Dioxane | 36 | U | 36 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2,2`-Oxybis(1-chloropropane) | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2,3,4,6-Tetrachlorophenol | 22 | U | 22 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2,4,5-Trichlorophenol | 8.5 | U | 8.5 | 250 | ug/L | 250 | U |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-03-091518 | 2,4,6-Trichlorophenol | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2,4-Dichlorophenol | 18 | U | 18 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2,4-Dimethylphenol | 18 | U | 18 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2,4-Dinitrophenol | 20 | U | 20 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2,4-Dinitrotoluene | 21 | U | 21 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2,6-Dinitrotoluene | 5.5 | U | 5.5 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2-Chloronaphthalene | 3.8 | U | 3.8 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2-Chlorophenol | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2-Methylnaphthalene | 3.2 | U | 3.2 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2-Methylphenol | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2-Nitroaniline | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 2-Nitrophenol | 17 | U | 17 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 3&4-Methylphenol | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 3,3┤-Dichlorobenzidine | 80 | U | 80 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 3-Nitroaniline | 32 | U | 32 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 4,6-Dinitro-2-methylphenol | 14 | U | 14 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 4-Bromophenyl phenyl ether | 16 | U | 16 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 4-Chloro-3-methylphenol | 13 | U | 13 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 4-Chloroaniline | 17 | U | 17 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 4-Chlorophenyl phenyl ether | 16 | U | 16 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 4-Nitroaniline | 28 | U | 28 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | 4-Nitrophenol | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Acenaphthene | 4 | U | 4 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Acenaphthylene | 3.8 | U | 3.8 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Acetophenone | 53 | | 18 | 50 | ug/L | 53 | |
| OTF-SW-03-091518 | Anthracene | 1.4 | U | 1.4 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Atrazine | 18 | U | 18 | 50 | ug/L | 50 | U |
| OTF-SW-03-091518 | Benzaldehyde | 26 | U | 26 | 50 | ug/L | 50 | U |
| OTF-SW-03-091518 | Benzo(a)anthracene | 1.1 | U | 1.1 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Benzo(a)pyrene | 2.2 | U | 2.2 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Benzo(b)fluoranthene | 2.6 | U | 2.6 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Benzo(g,h,i)perylene | 1.5 | U | 1.5 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Benzo(k)fluoranthene | 2.4 | U | 2.4 | 250 | ug/L | 250 | U |

OZINGA TIRE FIRE WATER ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. 1809940

| Samp_No | Analyte | Lab Result | Lab Qual | MDL | RL | Result_Units | Validation_Result | Val_Qual |
|---|---|---|---|---|---|---|---|---|
| OTF-SW-03-091518 | Bis(2-chloroethoxy)methane | 14 | U | 14 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Bis(2-chloroethyl)ether | 18 | U | 18 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Bis(2-chloroisopropyl)ether | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Bis(2-ethylhexyl)phthalate | 20 | U | 20 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Butyl benzyl phthalate | 15 | U | 15 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Caprolactam | 1200 | | 48 | 500 | ug/L | 1200 | |
| OTF-SW-03-091518 | Carbazole | 5 | U | 5 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Chrysene | 2.4 | U | 2.4 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Dibenzo(a,h)anthracene | 1.5 | U | 1.5 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Dibenzofuran | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Diethyl phthalate | 8.5 | U | 8.5 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Dimethyl phthalate | 9 | U | 9 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Di-n-butyl phthalate | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Di-n-octyl phthalate | 7.5 | U | 7.5 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Fluoranthene | 1.9 | U | 1.9 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Fluorene | 2.6 | U | 2.6 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Hexachlorobenzene | 22 | U | 22 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Hexachlorobutadiene | 14 | U | 14 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Hexachlorocyclopentadiene | 54 | U | 54 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Hexachloroethane | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Indeno(1,2,3-cd)pyrene | 3.4 | U | 3.4 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Isophorone | 17 | U | 17 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Naphthalene | 3.4 | U | 3.4 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Nitrobenzene | 13 | U | 13 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | N-Nitrosodi-n-propylamine | 18 | U | 18 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | N-Nitrosodiphenylamine | 12 | U | 12 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Pentachlorophenol | 48 | U | 48 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Phenanthrene | 1.5 | U | 1.5 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Phenol | 10 | U | 10 | 250 | ug/L | 250 | U |
| OTF-SW-03-091518 | Pyrene | 1.8 | U | 1.8 | 250 | ug/L | 250 | U |

# APPENDIX F

## ENVIRONMENTALLY PREFERRED PRACTICES

(4 Pages)

## APPENDIX F
## ENVIRONMENTALLY PREFERRED PRACTICES

START implemented environmentally preferred practices to maximize sustainability; reduce energy, water use, and toxic air emissions; promote carbon neutrality; and encourage industrial material reuse and recycling. In accordance with contract requirements, U.S. Environmental Protection Agency (EPA) policies, and relevant guidance, START documented project-specific environmentally preferred practices and available metrics in the Environmental Field Practices Checklist, Environmental Office Practices Checklist, and Green Metrics Table, (ASTM International 2016; EPA 2012a, 2012b, and 2016)

**References:**


ASTM International (ASTM). 2016. "Standard Guide for Greener Cleanups." E2893-16. April 1.

EPA. 2012a. "Methodology for Understanding and Reducing a Project's Environmental Footprint." Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation. EPA 542-R-12-002. February.

EPA. 2012b. "U.S. EPA Region 5 Superfund Greener Cleanup Implementation Strategy." March 16.

EPA. 2016. Memorandum Regarding Consideration of Greener Cleanup Activities in the Superfund Cleanup Process. From Woolford, James, Director, *et. al*. To Regional Superfund National Program Managers and Regional Counsels, Regions 1 – 10. August 2.

| | |
|---|---|
| **TDD #:** | S05-0004-1809-205 |
| **Site Name:** | Ozinga Tire Fire |
| **Site City, State:** | Chicago, IL |
| **Site Project Manager:** | Matt Villicana |
| **EPA OSC:** | Tom Mendez |

| **Environmentally Preferred General Field Practices** | | | | |
|---|---|---|---|---|
| If a general category is not applicable, then check N/A for the category box, not for each subcategory. | N= Not Used | N/A= Not Applicable | Y = Yes Implemented | **Comments Section** Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented. |
| **Energy** | | | | |
| **Use of Energy Efficient Equipment** | | | | |
| Computer Equipment (FEMP/Energy Star) | | | **Y** | Laptop is Energy Star |
| Installation of Electric Service | | **N/A** | | Did not have trailer onsite |
| **Reduce Carbon Emissions from Transportation** | | | | |
| Use Internet Based Meetings/Conferences | | **N/A** | | Emergency Response |
| Maximize Carpooling | **N** | | | Emergency Response, which required mobilization from multiple locations. |
| Use of Local Labor/Suppliers/Waste Disposal Facilities (50 mile radius) | | **N/A** | | Did not need extra labor |
| No idling, except for extreme weather conditions | | | **Y** | No idling used |
| Use of Alternative Fuels, if available within 10 miles | | **N/A** | | Could not utilize alternative fuels |
| Properly Inflated Tires | | | **Y** | |
| Email Small Files (less than 8MB) | | | **Y** | |
| Reusable Electronic Storage Media or the Cloud | | | **Y** | |
| **Water** | | | | |
| Use of Low Flow Sampling Pumps | | **N/A** | | Only surface water samples were collected |
| **Waste** | | | | |
| Use of Local Recycling Programs | | **N/A** | | Recycling not required |
| Use of Rechargeable Batteries | | | **Y** | Field Equipment utilized rechargeable batteries |
| Recycling – Other | | **N/A** | | No other was needed |
| Plastic Reduction | | | **Y** | Did not use plastic |
| Reuse of Resources | | **N/A** | | Dedicated sampling equipment was utilized to collect surface water samples. |
| Direct-Push Boring | | **N/A** | | Soil sampling was not conducted |
| **Materials** | | | | |
| Printing when Required | | | | |
| Double-sided Printing | | | **Y** | Office printer is double-sided |

| Environmentally Preferred General Field Practices | | | | |
|---|---|---|---|---|
| If a general category is not applicable, then check N/A for the category box, not for each subcategory. | N= Not Used | N/A= Not Applicable | Y = Yes Implemented | **Comments Section** Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented. |
| 100% post-consumer recycled paper | | | **Y** | Office uses recycled paper |
| **Land & Ecosystems** | | | | |
| Minimize Disruption to Natural Vegetation | | **N/A** | | No vegetation was disturbed. |
| Use of Non-invasive Investigation Techniques | **N** | | | Soil could not be sampled without using invasive techniques. |
| **Environmentally Preferred** | | | | |
| **Green Procurement** | | | | |
| Environmentally Preferred Vendors | | **N/A** | | No vendors were utilized |
| Green Lodging/Hotels | | **N/A** | | No overnight stays were required |
| Use of Green Laboratories | **N** | | | Laboratory was not Green-certified. |

**TDD #:** S05-0004-1809-205

**Site Name:** Ozinga Tire Fire

**Site City, State:** Chicago, IL

**Site Project Manager:** Matt Villicana

**EPA OSC:** Tom Mendez

| Green Metrics | | |
|---|---|---|
| **Metric** | **Amount** | **Unit of Measure** |
| Diesel Fuel Used | | gallons |
| Distance Traveled[1] | 225.00 | Miles |
| Unleaded Fuel Used[2] | 15.00 | gallons |
| Alternative/E-85 Fuel Used | | gallons |
| Electricity from Coal | | kW |
| Electricity from Natural Gas | | kW |
| Electricity from solar/wind | | kW |
| Electricity from grid/mix | | kW |
| Solid waste reused | | lbs |
| Solid waste recycled | | lbs |
| Water Used | | gallons |

| Greenhouse Gas Emissions (Site Specific) | | | | | |
|---|---|---|---|---|---|
| **Source** | **Amount Used** | **Unit of Measure** | **Methane (CH4) (Grams)[3]** | **Nitrous Oxide ($N_2O$) (Grams)[3]** | **Carbon Dioxide (CO2) (Kilograms)[3]** |
| **Gasoline** | 15.00 | X gallons | 1.49 | 3.67 | 133.65 |
| **Diesel** | | X gallons | | | |
| **E-85** | | X gallons | | | |
| **Electricity Office** | | X Kilowatts | | | |
| **Natural Gas** | | X Therms | | | |
| **Solid Waste** | | X lbs | | | |
| **Other** | | X Unit of Measure | | | |

**Note:**

[1] Distance traveled based on four round trips between the Tetra Tech Chicago office and the site as well as a trip from a site in Downers Grove where equipment was picked up, which totaled 225 miles.

[2] Fuel consumption based on distance traveled in a large sport utility vehicle. An average fuel efficiency of 24.7 miles per gallon was assumed based on 2011 light duty truck fuel efficiency from "Average Fuel Efficiency of U.S. Light Duty Vehicles," U.S. Department of Transportation, Bureau of Statistics Table 4-23 (Accessed online at http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/national_transportation_statistics/html/table_04_23.html on December 9, 2016).

[3] Methane and nitrous oxide emissions based on emission factors of 0.0066 and 0.0163 grams per mile for EPA Tier 2 light duty gasoline trucks from "Voluntary Reporting of Greenhouse Gases Program, Fuel Emission Coefficients, Table 5" (Accessed online at http://205.254.135.7/oiaf/1605/coefficients.html on December 9, 2016)

[4] Carbon dioxide emissions based on emission factors of 8.91 kilograms carbon dioxide per gallon of gasoline and 10.15 kilograms carbon dioxide per gallon of diesel fuel from "Voluntary Reporting of Greenhouse Gases Program, Fuel Emission Coefficients, Table 2" (Accessed online at http://205.254.135.7/oiaf/1605/coefficients.html on November 14, 2016).

## ATTACHMENT 1

**ANALYTICAL REPORT**

(418 Pages)

ALS Environmental

# Work Order: 1809940

**Project Name:**

**Ozinga Tire Fire**

**Tetra Tech EM Inc.**

Justin Button-Hutchens
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

**25-Oct-2018**

Certificate No: IL: 200076

# Contents

Section I: Case Narrative

Section II: Sample Receipt

Section III: Analytical Data

Section IV: Attachments

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# Section I

# CASE NARRATIVE

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ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

**ALS Group, USA** *Date: 25-Oct-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Work Order:** 1809940

# Case Narrative

Samples for the above noted Work Order were received on xx/yy/zzzz. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch R244431, Method VOC_8260_W, Sample 1809940-01B MS/MSD: The MS/MSD recovery was above the upper control limit for Bromomethane. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Extractable Organics:

Batch 124572, Method SVO_8270_W, Samples 1809940-01A, -02A, and -03A: The SVOC surrogate recoveries are unavailable due to dilution below the calibration range.

Batch 124572, Method SVO_8270_W, Samples 1809940-01A, -02A, and -03A: The SVOC reporting limits are elevated due to dilution needed to eliminate matrix-related interference.Batch 124572, Method SVO_8270_W, Sample SLCSW1-124572: 1
Batch 124572, Method SVO_8270_W, Sample 1809614-01A MS: 1
Batch 124572, Method SVO_8270_W, Sample 1809614-01A MS: 1

# Section II

# SAMPLE RECEIPT

-Sample Summary

-Shipping Documents*

-Chain of Custody

-Receipt Checklist

(* = As applicable)

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# ALS Group, USA

Date: 25-Oct-18

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Work Order:** **1809940**

## Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 1809940-01 | OTF-SW-01-091418 | Surface Wate | | 9/14/2018 20:50 | 9/15/2018 14:32 | ☐ |
| 1809940-02 | OTF-SW-02-091518 | Surface Wate | | 9/15/2018 00:40 | 9/15/2018 14:32 | ☐ |
| 1809940-03 | OTF-SW-03-091518 | Surface Wate | | 9/15/2018 01:10 | 9/15/2018 14:32 | ☐ |

1809940

Rev. 4/2010

# CHAIN OF CUSTODY

Page 1 of 1

Company: Tetra Tech
Project Contact: Justin
Telephone:
Project Name: OZ Ings Tire Fire
Project #:
Location: Chicago, IL
Sampled By: Anna Nguyen, Matt Williams

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL:
Company:
Address:

Invoice To:*
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

**Client Special Instructions**

24 hr TAT

Level IV

Matrix
GW - groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

ANALYSES REQUESTED

| Collection Date | Collection Time | Matrix | Grab/Comp | Sample ID Description | Filtered? Y/N | VOC | SVOC | | | | | | | | | | | | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Fill in Spaces with Bottles per Test | | | | | | | | | | | | | | | |
| 9/14/18 | 2050 | SW | G | OTF-SW-01-091418 | N | X | X | | | | | | | | | | | | 3 | | |
| 9/15/18 | 0040 | SW | G | OTF-SW-02-091518 | N | X | X | | | | | | | | | | | | 3 | | |
| 9/15/18 | 0110 | SW | G | OTF-SW-03-091518 | N | X | X | | | | | | | | | | | | 3 | | |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 9/15/18 1100 | [signature] | 9/15/18 1100 |
| Received by: [signature] | 9/15/18 2:32 | Received for Laboratory by: [signature] | 9/15/18 2:32 |

Lab Use Only
Ice Present (Yes) No
Temperature 9.6°C
Cooler # _____

# ALS Group, USA

## Sample Receipt Checklist

Client Name: TETRATECH-EM-CHI

Date/Time Received: 15-Sep-18 00:00

Work Order: 1809940

Received by: JG

Checklist completed by Jeff Glaser (eSignature) 15-Sep-18 (Date)

Reviewed by: Jeff Glaser (eSignature) 15-Sep-18 (Date)

Matrices: Water

Carrier name: Client

| | Yes | No | Not Present |
|---|---|---|---|
| Shipping container/cooler in good condition? | ☑ | ☐ | ☐ |
| Custody seals intact on shipping container/cooler? | ☐ | ☐ | ☑ |
| Custody seals intact on sample bottles? | ☐ | ☐ | ☑ |
| Chain of custody present? | ☑ | ☐ | |
| Chain of custody signed when relinquished and received? | ☑ | ☐ | |
| Chain of custody agrees with sample labels? | ☑ | ☐ | |
| Samples in proper container/bottle? | ☑ | ☐ | |
| Sample containers intact? | ☑ | ☐ | |
| Sufficient sample volume for indicated test? | ☑ | ☐ | |
| All samples received within holding time? | ☑ | ☐ | |
| Container/Temp Blank temperature in compliance? | ☐ | ☑ | |
| Sample(s) received on ice? | ☑ | ☐ | |

Temperature(s)/Thermometer(s): 9.6/9.6 C SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 9/15/2018 3:00 PM

| | Yes | No | | |
|---|---|---|---|---|
| Water - VOA vials have zero headspace? | ☐ | ☑ | No VOA vials submitted | ☐ |
| Water - pH acceptable upon receipt? | ☑ | ☐ | N/A | ☐ |
| pH adjusted? | ☐ | ☑ | N/A | ☐ |

pH adjusted by: -

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

# Section III

# Analytical Data

-Analysis Data Sheet

-QC Summary

-QC Batch Report

-Summary Forms (if applicable)

-Raw Data

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# Raw Data Format

## Organic Ordering

- -Field Sample Data
- -Calibration Data
  - -Initial
  - -Continuing
- -Instrument QC Data (BFB, DFTPP, etc. as applicable)
- -QC Data
- -Sequence Logs
- -Extraction Logs

## Inorganic Ordering

- -Instrument Data
- -Digestion/Preparation Data
- -Calculation Data (if applicable)

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# Organic

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# GC/MS
# Volatile Organics

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OTF-SW-01-091418DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-01B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 25.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 25 | UD |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25 | UD |
| 79-00-5 | 1,1,2-Trichloroethane | 25 | UD |
| 76-13-1 | 1,1,2-Trichlorotrifluoroeth | 25 | UD |
| 75-34-3 | 1,1-Dichloroethane | 25 | UD |
| 75-35-4 | 1,1-Dichloroethene | 25 | UD |
| 87-61-6 | 1,2,3-Trichlorobenzene | 25 | UD |
| 120-82-1 | 1,2,4-Trichlorobenzene | 25 | UD |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 25 | UD |
| 106-93-4 | 1,2-Dibromoethane | 25 | UD |
| 95-50-1 | 1,2-Dichlorobenzene | 25 | UD |
| 107-06-2 | 1,2-Dichloroethane | 25 | UD |
| 78-87-5 | 1,2-Dichloropropane | 25 | UD |
| 541-73-1 | 1,3-Dichlorobenzene | 25 | UD |
| 106-46-7 | 1,4-Dichlorobenzene | 25 | UD |
| 78-93-3 | 2-Butanone | 880 | D |
| 591-78-6 | 2-Hexanone | 120 | UD |
| 108-10-1 | 4-Methyl-2-pentanone | 750 | D |
| 71-43-2 | Benzene | 470 | D |
| 74-97-5 | Bromochloromethane | 25 | UD |
| 75-27-4 | Bromodichloromethane | 25 | UD |
| 75-25-2 | Bromoform | 25 | UD |
| 74-83-9 | Bromomethane | 25 | JUD |
| 75-15-0 | Carbon disulfide | 25 | UD |
| 56-23-5 | Carbon tetrachloride | 25 | UD |
| 108-90-7 | Chlorobenzene | 25 | UD |
| 75-00-3 | Chloroethane | 25 | UD |
| 67-66-3 | Chloroform | 25 | UD |
| 74-87-3 | Chloromethane | 25 | UD |
| 156-59-2 | cis-1,2-Dichloroethene | 25 | UD |
| 10061-01-5 | cis-1,3-Dichloropropene | 25 | UD |
| 110-82-7 | Cyclohexane | 25 | UD |

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-01-091418DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-01B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 25.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 25 | UD |
| 75-71-8 | Dichlorodifluoromethane | 25 | UD |
| 100-41-4 | Ethylbenzene | 56 | D |
| 98-82-8 | Isopropylbenzene | 25 | JUD |
| 136777-61-2 | m,p-Xylene | 110 | D |
| 79-20-9 | Methyl acetate | 50 | UD |
| 1634-04-4 | Methyl tert-butyl ether | 25 | UD |
| 108-87-2 | Methylcyclohexane | 25 | UD |
| 75-09-2 | Methylene chloride | 120 | UD |
| 95-47-6 | o-Xylene | 26 | D |
| 100-42-5 | Styrene | 86 | D |
| 127-18-4 | Tetrachloroethene | 25 | UD |
| 108-88-3 | Toluene | 290 | D |
| 156-60-5 | trans-1,2-Dichloroethene | 25 | UD |
| 10061-02-6 | trans-1,3-Dichloropropene | 25 | UD |
| 79-01-6 | Trichloroethene | 25 | UD |
| 75-69-4 | Trichlorofluoromethane | 25 | UD |
| 75-01-4 | Vinyl chloride | 25 | UD |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OTF-SW-01-091418DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-01B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 100.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 67-64-1 | Acetone | 4,300 | D |

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-02-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-02B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 10.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 10 | UD |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | UD |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | UD |
| 76-13-1 | 1,1,2-Trichlorotrifluoroeth | 10 | UD |
| 75-34-3 | 1,1-Dichloroethane | 10 | UD |
| 75-35-4 | 1,1-Dichloroethene | 10 | UD |
| 87-61-6 | 1,2,3-Trichlorobenzene | 10 | UD |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | UD |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 10 | UD |
| 106-93-4 | 1,2-Dibromoethane | 10 | UD |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | UD |
| 107-06-2 | 1,2-Dichloroethane | 10 | UD |
| 78-87-5 | 1,2-Dichloropropane | 10 | UD |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | UD |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | UD |
| 78-93-3 | 2-Butanone | 300 | D |
| 591-78-6 | 2-Hexanone | 50 | UD |
| 108-10-1 | 4-Methyl-2-pentanone | 460 | D |
| 71-43-2 | Benzene | 87 | D |
| 74-97-5 | Bromochloromethane | 10 | UD |
| 75-27-4 | Bromodichloromethane | 10 | UD |
| 75-25-2 | Bromoform | 10 | UD |
| 74-83-9 | Bromomethane | 10 | UD |
| 75-15-0 | Carbon disulfide | 10 | UD |
| 56-23-5 | Carbon tetrachloride | 10 | UD |
| 108-90-7 | Chlorobenzene | 10 | UD |
| 75-00-3 | Chloroethane | 10 | UD |
| 67-66-3 | Chloroform | 10 | UD |
| 74-87-3 | Chloromethane | 10 | UD |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | UD |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | UD |
| 110-82-7 | Cyclohexane | 10 | UD |

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-02-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-02B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 10.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 10 | UD |
| 75-71-8 | Dichlorodifluoromethane | 10 | UD |
| 100-41-4 | Ethylbenzene | 10 | JUD |
| 98-82-8 | Isopropylbenzene | 10 | UD |
| 136777-61-2 | m,p-Xylene | 20 | JUD |
| 79-20-9 | Methyl acetate | 20 | UD |
| 1634-04-4 | Methyl tert-butyl ether | 10 | UD |
| 108-87-2 | Methylcyclohexane | 10 | UD |
| 75-09-2 | Methylene chloride | 50 | UD |
| 95-47-6 | o-Xylene | 10 | JUD |
| 100-42-5 | Styrene | 10 | JUD |
| 127-18-4 | Tetrachloroethene | 10 | UD |
| 108-88-3 | Toluene | 38 | D |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | UD |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | UD |
| 79-01-6 | Trichloroethene | 10 | UD |
| 75-69-4 | Trichlorofluoromethane | 10 | UD |
| 75-01-4 | Vinyl chloride | 10 | UD |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OTF-SW-02-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-02B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 50.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 67-64-1 | Acetone | 1,900 | D |

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-03-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-03B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 2.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 2.0 | UD |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.0 | UD |
| 79-00-5 | 1,1,2-Trichloroethane | 2.0 | UD |
| 76-13-1 | 1,1,2-Trichlorotrifluoroeth | 2.0 | UD |
| 75-34-3 | 1,1-Dichloroethane | 2.0 | UD |
| 75-35-4 | 1,1-Dichloroethene | 2.0 | UD |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.0 | UD |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.0 | UD |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2.0 | UD |
| 106-93-4 | 1,2-Dibromoethane | 2.0 | UD |
| 95-50-1 | 1,2-Dichlorobenzene | 2.0 | UD |
| 107-06-2 | 1,2-Dichloroethane | 2.0 | UD |
| 78-87-5 | 1,2-Dichloropropane | 2.0 | UD |
| 541-73-1 | 1,3-Dichlorobenzene | 2.0 | UD |
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | UD |
| 78-93-3 | 2-Butanone | 91 | D |
| 591-78-6 | 2-Hexanone | 10 | UD |
| 108-10-1 | 4-Methyl-2-pentanone | 190 | D |
| 71-43-2 | Benzene | 20 | D |
| 74-97-5 | Bromochloromethane | 2.0 | UD |
| 75-27-4 | Bromodichloromethane | 2.0 | UD |
| 75-25-2 | Bromoform | 2.0 | UD |
| 74-83-9 | Bromomethane | 2.0 | UD |
| 75-15-0 | Carbon disulfide | 2.0 | UD |
| 56-23-5 | Carbon tetrachloride | 2.0 | UD |
| 108-90-7 | Chlorobenzene | 2.0 | UD |
| 75-00-3 | Chloroethane | 2.0 | UD |
| 67-66-3 | Chloroform | 2.0 | UD |
| 74-87-3 | Chloromethane | 3.6 | D |
| 156-59-2 | cis-1,2-Dichloroethene | 2.0 | UD |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.0 | UD |
| 110-82-7 | Cyclohexane | 2.0 | UD |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OTF-SW-03-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-03B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 2.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 2.0 | UD |
| 75-71-8 | Dichlorodifluoromethane | 2.0 | UD |
| 100-41-4 | Ethylbenzene | 3.7 | D |
| 98-82-8 | Isopropylbenzene | 2.0 | JUD |
| 136777-61-2 | m,p-Xylene | 9.0 | D |
| 79-20-9 | Methyl acetate | 4.0 | UD |
| 1634-04-4 | Methyl tert-butyl ether | 2.0 | UD |
| 108-87-2 | Methylcyclohexane | 2.0 | UD |
| 75-09-2 | Methylene chloride | 10 | UD |
| 95-47-6 | o-Xylene | 2.1 | D |
| 100-42-5 | Styrene | 5.5 | D |
| 127-18-4 | Tetrachloroethene | 2.0 | UD |
| 108-88-3 | Toluene | 15 | D |
| 156-60-5 | trans-1,2-Dichloroethene | 2.0 | UD |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.0 | UD |
| 79-01-6 | Trichloroethene | 2.0 | UD |
| 75-69-4 | Trichlorofluoromethane | 2.0 | UD |
| 75-01-4 | Vinyl chloride | 2.0 | UD |

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-03-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1809940

Matrix: Water Lab Sample ID: 1809940-03B

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 9/15/2018

% Moisture: not dec. 0 Date Analyzed: 9/15/2018

GC Column: DB624 ID: 0.18 (mm Dilution Factor: 10.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 67-64-1 | Acetone | 420 | D |

# ALS Group, USA

Date: 31-Oct-18

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

## QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

**MBLK** Sample ID: **VBLKW1-180915-R244431** Units: µg/L Analysis Date: **9/15/2018 12:48 PM**
Client ID: Run ID: **VMS10_180915A** SeqNo: **5257937** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 2-Butanone | ND | 5.0 | | | | | | | | |
| 2-Hexanone | ND | 5.0 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 1.0 | | | | | | | | |
| Acetone | ND | 10 | | | | | | | | |
| Benzene | 0.55 | 1.0 | | | | | | | | J |
| Bromochloromethane | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromoform | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 1.0 | | | | | | | | |
| Carbon disulfide | ND | 1.0 | | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 1.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 1.0 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| Cyclohexane | ND | 1.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |
| m,p-Xylene | 0.59 | 2.0 | | | | | | | | J |
| Methyl acetate | ND | 2.0 | | | | | | | | |
| Methyl tert-butyl ether | ND | 1.0 | | | | | | | | |
| Methylcyclohexane | ND | 1.0 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methylene chloride | ND | 5.0 | | | | | |
| o-Xylene | ND | 1.0 | | | | | |
| Styrene | ND | 1.0 | | | | | |
| Tetrachloroethene | ND | 1.0 | | | | | |
| Toluene | ND | 1.0 | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | |
| Trichloroethene | ND | 1.0 | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *21.22* | 0 | *20* | 0 | *106* | *75-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *18.04* | 0 | *20* | 0 | *90.2* | *80-110* | 0 |
| *Surr: Dibromofluoromethane* | *20.37* | 0 | *20* | 0 | *102* | *85-115* | 0 |
| *Surr: Toluene-d8* | *18.84* | 0 | *20* | 0 | *94.2* | *85-110* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

**LCS** Sample ID: **VLCSW1-180915-R244431** Units: **µg/L** Analysis Date: **9/15/2018 12:16 PM**
Client ID: Run ID: **VMS10_180915A** SeqNo: **5257935** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 22.88 | 1.0 | 20 | 0 | 114 | 75-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 20.65 | 1.0 | 20 | 0 | 103 | 75-130 | 0 | | | |
| 1,1,2-Trichloroethane | 21.52 | 1.0 | 20 | 0 | 108 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 21.37 | 1.0 | 20 | 0 | 107 | 68-142 | 0 | | | |
| 1,1-Dichloroethene | 21.38 | 1.0 | 20 | 0 | 107 | 70-145 | 0 | | | |
| 1,2,3-Trichlorobenzene | 19.71 | 1.0 | 20 | 0 | 98.6 | 70-140 | 0 | | | |
| 1,2,4-Trichlorobenzene | 19.62 | 1.0 | 20 | 0 | 98.1 | 70-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 20.4 | 1.0 | 20 | 0 | 102 | 60-130 | 0 | | | |
| 1,2-Dibromoethane | 24.17 | 1.0 | 20 | 0 | 121 | 67-155 | 0 | | | |
| 1,2-Dichlorobenzene | 20.14 | 1.0 | 20 | 0 | 101 | 70-130 | 0 | | | |
| 1,2-Dichloroethane | 20.35 | 1.0 | 20 | 0 | 102 | 78-125 | 0 | | | |
| 1,2-Dichloropropane | 21.6 | 1.0 | 20 | 0 | 108 | 75-125 | 0 | | | |
| 1,3-Dichlorobenzene | 20.92 | 1.0 | 20 | 0 | 105 | 75-130 | 0 | | | |
| 1,4-Dichlorobenzene | 20.15 | 1.0 | 20 | 0 | 101 | 75-130 | 0 | | | |
| 2-Butanone | 19.33 | 5.0 | 20 | 0 | 96.6 | 55-150 | 0 | | | |
| 2-Hexanone | 20.94 | 5.0 | 20 | 0 | 105 | 60-135 | 0 | | | |
| 4-Methyl-2-pentanone | 30.84 | 1.0 | 20 | 0 | 154 | 77-178 | 0 | | | |
| Acetone | 21.11 | 10 | 20 | 0 | 106 | 60-160 | 0 | | | |
| Benzene | 22.73 | 1.0 | 20 | 0 | 114 | 85-125 | 0 | | | |
| Bromochloromethane | 22.04 | 1.0 | 20 | 0 | 110 | 72-141 | 0 | | | |
| Bromodichloromethane | 21.33 | 1.0 | 20 | 0 | 107 | 75-125 | 0 | | | |
| Bromoform | 19.21 | 1.0 | 20 | 0 | 96 | 60-125 | 0 | | | |
| Bromomethane | 36.6 | 1.0 | 20 | 0 | 183 | 30-185 | 0 | | | |
| Carbon disulfide | 21.69 | 1.0 | 20 | 0 | 108 | 60-165 | 0 | | | |
| Carbon tetrachloride | 21.96 | 1.0 | 20 | 0 | 110 | 65-140 | 0 | | | |
| Chlorobenzene | 20.75 | 1.0 | 20 | 0 | 104 | 80-120 | 0 | | | |
| Chloroethane | 21.35 | 1.0 | 20 | 0 | 107 | 50-140 | 0 | | | |
| Chloroform | 21.33 | 1.0 | 20 | 0 | 107 | 80-130 | 0 | | | |
| Chloromethane | 13.92 | 1.0 | 20 | 0 | 69.6 | 46-148 | 0 | | | |
| cis-1,2-Dichloroethene | 22.69 | 1.0 | 20 | 0 | 113 | 75-134 | 0 | | | |
| cis-1,3-Dichloropropene | 18.7 | 1.0 | 20 | 0 | 93.5 | 70-130 | 0 | | | |
| Dibromochloromethane | 19.18 | 1.0 | 20 | 0 | 95.9 | 60-115 | 0 | | | |
| Dichlorodifluoromethane | 18.17 | 1.0 | 20 | 0 | 90.8 | 20-120 | 0 | | | |
| Ethylbenzene | 20.32 | 1.0 | 20 | 0 | 102 | 76-123 | 0 | | | |
| Isopropylbenzene | 20.25 | 1.0 | 20 | 0 | 101 | 80-127 | 0 | | | |
| m,p-Xylene | 40.91 | 2.0 | 40 | 0 | 102 | 75-130 | 0 | | | |
| Methyl tert-butyl ether | 22.73 | 1.0 | 20 | 0 | 114 | 68-129 | 0 | | | |
| Methylene chloride | 20.84 | 5.0 | 20 | 0 | 104 | 75-140 | 0 | | | |
| o-Xylene | 20.35 | 1.0 | 20 | 0 | 102 | 76-127 | 0 | | | |
| Styrene | 23.1 | 1.0 | 20 | 0 | 116 | 83-137 | 0 | | | |
| Tetrachloroethene | 22.77 | 1.0 | 20 | 0 | 114 | 68-166 | 0 | | | |
| Toluene | 20.87 | 1.0 | 20 | 0 | 104 | 76-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 22.84 | 1.0 | 20 | 0 | 114 | 80-140 | 0 |
| trans-1,3-Dichloropropene | 20.34 | 1.0 | 20 | 0 | 102 | 56-132 | 0 |
| Trichloroethene | 20.74 | 1.0 | 20 | 0 | 104 | 84-130 | 0 |
| Trichlorofluoromethane | 21.19 | 1.0 | 20 | 0 | 106 | 60-140 | 0 |
| Vinyl chloride | 20.03 | 1.0 | 20 | 0 | 100 | 50-136 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *20.29* | 0 | *20* | 0 | *101* | *75-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *20.33* | 0 | *20* | 0 | *102* | *80-110* | 0 |
| *Surr: Dibromofluoromethane* | *20.75* | 0 | *20* | 0 | *104* | *85-115* | 0 |
| *Surr: Toluene-d8* | *20.45* | 0 | *20* | 0 | *102* | *85-110* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

**MS** Sample ID: **1809940-01B MS** Units: **µg/L** Analysis Date: **9/15/2018 05:13 PM**
Client ID: **OTF-SW-01-091418** Run ID: **VMS10_180915A** SeqNo: **5257946** Prep Date: DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2336 | 100 | 2000 | 0 | 117 | 75-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 2050 | 100 | 2000 | 0 | 102 | 75-130 | 0 | | | |
| 1,1,2-Trichloroethane | 2114 | 100 | 2000 | 0 | 106 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 2183 | 100 | 2000 | 0 | 109 | 68-142 | 0 | | | |
| 1,1-Dichloroethene | 2241 | 100 | 2000 | 0 | 112 | 70-145 | 0 | | | |
| 1,2,3-Trichlorobenzene | 1800 | 100 | 2000 | 0 | 90 | 70-140 | 0 | | | |
| 1,2,4-Trichlorobenzene | 1810 | 100 | 2000 | 0 | 90.5 | 70-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 1967 | 100 | 2000 | 0 | 98.4 | 60-130 | 0 | | | |
| 1,2-Dibromoethane | 2403 | 100 | 2000 | 0 | 120 | 67-155 | 0 | | | |
| 1,2-Dichlorobenzene | 1926 | 100 | 2000 | 0 | 96.3 | 70-130 | 0 | | | |
| 1,2-Dichloroethane | 2087 | 100 | 2000 | 0 | 104 | 78-125 | 0 | | | |
| 1,2-Dichloropropane | 2168 | 100 | 2000 | 0 | 108 | 75-125 | 0 | | | |
| 1,3-Dichlorobenzene | 1958 | 100 | 2000 | 0 | 97.9 | 75-130 | 0 | | | |
| 1,4-Dichlorobenzene | 1891 | 100 | 2000 | 0 | 94.6 | 75-130 | 0 | | | |
| 2-Butanone | 3129 | 500 | 2000 | 1026 | 105 | 55-150 | 0 | | | |
| 2-Hexanone | 2179 | 500 | 2000 | 0 | 109 | 60-135 | 0 | | | |
| 4-Methyl-2-pentanone | 4100 | 100 | 2000 | 761 | 167 | 77-178 | 0 | | | |
| Acetone | 6571 | 1,000 | 2000 | 4263 | 115 | 60-160 | 0 | | | |
| Benzene | 2767 | 100 | 2000 | 551 | 111 | 85-125 | 0 | | | |
| Bromochloromethane | 2251 | 100 | 2000 | 0 | 113 | 72-141 | 0 | | | |
| Bromodichloromethane | 2122 | 100 | 2000 | 0 | 106 | 75-125 | 0 | | | |
| Bromoform | 1937 | 100 | 2000 | 0 | 96.8 | 60-125 | 0 | | | |
| Bromomethane | 3803 | 100 | 2000 | 0 | 190 | 30-185 | 0 | | | S |
| Carbon disulfide | 2427 | 100 | 2000 | 0 | 121 | 60-165 | 0 | | | |
| Carbon tetrachloride | 2294 | 100 | 2000 | 0 | 115 | 65-140 | 0 | | | |
| Chlorobenzene | 2040 | 100 | 2000 | 0 | 102 | 80-120 | 0 | | | |
| Chloroethane | 2174 | 100 | 2000 | 0 | 109 | 50-140 | 0 | | | |
| Chloroform | 2196 | 100 | 2000 | 0 | 110 | 80-130 | 0 | | | |
| Chloromethane | 1267 | 100 | 2000 | 17 | 62.5 | 46-148 | 0 | | | |
| cis-1,2-Dichloroethene | 2260 | 100 | 2000 | 0 | 113 | 75-134 | 0 | | | |
| cis-1,3-Dichloropropene | 1787 | 100 | 2000 | 0 | 89.4 | 70-130 | 0 | | | |
| Dibromochloromethane | 1811 | 100 | 2000 | 0 | 90.6 | 60-115 | 0 | | | |
| Dichlorodifluoromethane | 2006 | 100 | 2000 | 0 | 100 | 20-120 | 0 | | | |
| Ethylbenzene | 2077 | 100 | 2000 | 76 | 100 | 76-123 | 0 | | | |
| Isopropylbenzene | 2032 | 100 | 2000 | 36 | 99.8 | 80-127 | 0 | | | |
| m,p-Xylene | 4134 | 200 | 4000 | 160 | 99.4 | 75-130 | 0 | | | |
| Methyl tert-butyl ether | 2204 | 100 | 2000 | 0 | 110 | 68-129 | 0 | | | |
| Methylene chloride | 2110 | 500 | 2000 | 0 | 106 | 75-140 | 0 | | | |
| o-Xylene | 2061 | 100 | 2000 | 45 | 101 | 76-127 | 0 | | | |
| Styrene | 2415 | 100 | 2000 | 98 | 116 | 83-137 | 0 | | | |
| Tetrachloroethene | 2215 | 100 | 2000 | 0 | 111 | 68-166 | 0 | | | |
| Toluene | 2403 | 100 | 2000 | 323 | 104 | 76-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 2336 | 100 | 2000 | 0 | 117 | 80-140 | 0 |
| trans-1,3-Dichloropropene | 1899 | 100 | 2000 | 0 | 95 | 56-132 | 0 |
| Trichloroethene | 2110 | 100 | 2000 | 0 | 106 | 84-130 | 0 |
| Trichlorofluoromethane | 2154 | 100 | 2000 | 0 | 108 | 60-140 | 0 |
| Vinyl chloride | 2039 | 100 | 2000 | 0 | 102 | 50-136 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *2073* | 0 | *2000* | 0 | *104* | *75-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *2099* | 0 | *2000* | 0 | *105* | *80-110* | 0 |
| *Surr: Dibromofluoromethane* | *2065* | 0 | *2000* | 0 | *103* | *85-115* | 0 |
| *Surr: Toluene-d8* | *2047* | 0 | *2000* | 0 | *102* | *85-110* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

**MSD** Sample ID: **1809940-01B MSD** Units: **µg/L** Analysis Date: **9/15/2018 05:30 PM**
Client ID: **OTF-SW-01-091418** Run ID: **VMS10_180915A** SeqNo: **5257947** Prep Date: DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2333 | 100 | 2000 | 0 | 117 | 75-130 | 2336 | 0.129 | 30 | |
| 1,1,2,2-Tetrachloroethane | 2068 | 100 | 2000 | 0 | 103 | 75-130 | 2050 | 0.874 | 30 | |
| 1,1,2-Trichloroethane | 2069 | 100 | 2000 | 0 | 103 | 75-125 | 2114 | 2.15 | 30 | |
| 1,1-Dichloroethane | 2185 | 100 | 2000 | 0 | 109 | 68-142 | 2183 | 0.0916 | 30 | |
| 1,1-Dichloroethene | 2317 | 100 | 2000 | 0 | 116 | 70-145 | 2241 | 3.33 | 30 | |
| 1,2,3-Trichlorobenzene | 1861 | 100 | 2000 | 0 | 93 | 70-140 | 1800 | 3.33 | 30 | |
| 1,2,4-Trichlorobenzene | 1878 | 100 | 2000 | 0 | 93.9 | 70-135 | 1810 | 3.69 | 30 | |
| 1,2-Dibromo-3-chloropropane | 1976 | 100 | 2000 | 0 | 98.8 | 60-130 | 1967 | 0.457 | 30 | |
| 1,2-Dibromoethane | 2368 | 100 | 2000 | 0 | 118 | 67-155 | 2403 | 1.47 | 30 | |
| 1,2-Dichlorobenzene | 1934 | 100 | 2000 | 0 | 96.7 | 70-130 | 1926 | 0.415 | 30 | |
| 1,2-Dichloroethane | 2025 | 100 | 2000 | 0 | 101 | 78-125 | 2087 | 3.02 | 30 | |
| 1,2-Dichloropropane | 2150 | 100 | 2000 | 0 | 108 | 75-125 | 2168 | 0.834 | 30 | |
| 1,3-Dichlorobenzene | 2015 | 100 | 2000 | 0 | 101 | 75-130 | 1958 | 2.87 | 30 | |
| 1,4-Dichlorobenzene | 1956 | 100 | 2000 | 0 | 97.8 | 75-130 | 1891 | 3.38 | 30 | |
| 2-Butanone | 3065 | 500 | 2000 | 1026 | 102 | 55-150 | 3129 | 2.07 | 30 | |
| 2-Hexanone | 2136 | 500 | 2000 | 0 | 107 | 60-135 | 2179 | 1.99 | 30 | |
| 4-Methyl-2-pentanone | 4041 | 100 | 2000 | 761 | 164 | 77-178 | 4100 | 1.45 | 30 | |
| Acetone | 6471 | 1,000 | 2000 | 4263 | 110 | 60-160 | 6571 | 1.53 | 30 | |
| Benzene | 2706 | 100 | 2000 | 551 | 108 | 85-125 | 2767 | 2.23 | 30 | |
| Bromochloromethane | 2234 | 100 | 2000 | 0 | 112 | 72-141 | 2251 | 0.758 | 30 | |
| Bromodichloromethane | 2116 | 100 | 2000 | 0 | 106 | 75-125 | 2122 | 0.283 | 30 | |
| Bromoform | 1898 | 100 | 2000 | 0 | 94.9 | 60-125 | 1937 | 2.03 | 30 | |
| Bromomethane | 3885 | 100 | 2000 | 0 | 194 | 30-185 | 3803 | 2.13 | 30 | S |
| Carbon disulfide | 2445 | 100 | 2000 | 0 | 122 | 60-165 | 2427 | 0.739 | 30 | |
| Carbon tetrachloride | 2291 | 100 | 2000 | 0 | 115 | 65-140 | 2294 | 0.131 | 30 | |
| Chlorobenzene | 2016 | 100 | 2000 | 0 | 101 | 80-120 | 2040 | 1.18 | 30 | |
| Chloroethane | 2181 | 100 | 2000 | 0 | 109 | 50-140 | 2174 | 0.321 | 30 | |
| Chloroform | 2189 | 100 | 2000 | 0 | 109 | 80-130 | 2196 | 0.319 | 30 | |
| Chloromethane | 1310 | 100 | 2000 | 17 | 64.6 | 46-148 | 1267 | 3.34 | 30 | |
| cis-1,2-Dichloroethene | 2240 | 100 | 2000 | 0 | 112 | 75-134 | 2260 | 0.889 | 30 | |
| cis-1,3-Dichloropropene | 1824 | 100 | 2000 | 0 | 91.2 | 70-130 | 1787 | 2.05 | 30 | |
| Dibromochloromethane | 1804 | 100 | 2000 | 0 | 90.2 | 60-115 | 1811 | 0.387 | 30 | |
| Dichlorodifluoromethane | 2018 | 100 | 2000 | 0 | 101 | 20-120 | 2006 | 0.596 | 30 | |
| Ethylbenzene | 2051 | 100 | 2000 | 76 | 98.8 | 76-123 | 2077 | 1.26 | 30 | |
| Isopropylbenzene | 2022 | 100 | 2000 | 36 | 99.3 | 80-127 | 2032 | 0.493 | 30 | |
| m,p-Xylene | 4132 | 200 | 4000 | 160 | 99.3 | 75-130 | 4134 | 0.0484 | 30 | |
| Methyl tert-butyl ether | 2202 | 100 | 2000 | 0 | 110 | 68-129 | 2204 | 0.0908 | 30 | |
| Methylene chloride | 2107 | 500 | 2000 | 0 | 105 | 75-140 | 2110 | 0.142 | 30 | |
| o-Xylene | 2022 | 100 | 2000 | 45 | 98.8 | 76-127 | 2061 | 1.91 | 30 | |
| Styrene | 2394 | 100 | 2000 | 98 | 115 | 83-137 | 2415 | 0.873 | 30 | |
| Tetrachloroethene | 2202 | 100 | 2000 | 0 | 110 | 68-166 | 2215 | 0.589 | 30 | |
| Toluene | 2388 | 100 | 2000 | 323 | 103 | 76-125 | 2403 | 0.626 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 2330 | 100 | 2000 | 0 | 116 | 80-140 | 2336 | 0.257 | 30 |
| trans-1,3-Dichloropropene | 1912 | 100 | 2000 | 0 | 95.6 | 56-132 | 1899 | 0.682 | 30 |
| Trichloroethene | 2130 | 100 | 2000 | 0 | 106 | 84-130 | 2110 | 0.943 | 30 |
| Trichlorofluoromethane | 2163 | 100 | 2000 | 0 | 108 | 60-140 | 2154 | 0.417 | 30 |
| Vinyl chloride | 2089 | 100 | 2000 | 0 | 104 | 50-136 | 2039 | 2.42 | 30 |
| *Surr: 1,2-Dichloroethane-d4* | *2020* | 0 | *2000* | 0 | *101* | *75-120* | 2073 | *2.59* | *30* |
| *Surr: 4-Bromofluorobenzene* | *2093* | 0 | *2000* | 0 | *105* | *80-110* | 2099 | *0.286* | *30* |
| *Surr: Dibromofluoromethane* | *2056* | 0 | *2000* | 0 | *103* | *85-115* | 2065 | *0.437* | *30* |
| *Surr: Toluene-d8* | *2016* | 0 | *2000* | 0 | *101* | *85-110* | 2047 | *1.53* | *30* |

**The following samples were analyzed in this batch:** 1809940-01B 1809940-02B 1809940-03B

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: _____

Lab Code: MI00028 Case No.: _____ SAS No.: _____ SDG No.: 1809940

| | EPA SAMPLE NO. | SMC1 BFB # | SMC2 DCE # | SMC3 TOL # | SMC4 BFB # | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | VLCSW1-18091 | 104 | 101 | 102 | 102 | 0 |
| 02 | VBLKW1-18091 | 102 | 106 | 94 | 90 | 0 |
| 03 | OTF-SW-01-09 | 106 | 105 | 95 | 90 | 0 |
| 04 | OTF-SW-03-09 | 102 | 107 | 97 | 92 | 0 |
| 05 | OTF-SW-02-09 | 106 | 109 | 97 | 92 | 0 |
| 06 | OTF-SW-01-09 | 102 | 106 | 98 | 94 | 0 |
| 07 | OTF-SW-02-09 | 103 | 107 | 102 | 94 | 0 |
| 08 | OTF-SW-03-09 | 105 | 108 | 104 | 101 | 0 |
| 09 | OTF-SW-01-09 | 103 | 104 | 102 | 105 | 0 |
| 10 | OTF-SW-01-09 | 103 | 101 | 101 | 105 | 0 |

QC LIMITS

| | | | | |
|---|---|---|---|---|
| SMC1 | BFB | = | Dibromofluoromethane | (85-115) |
| SMC2 | DCE | = | 1,2-Dichloroethane-d4 | (75-120) |
| SMC3 | TOL | = | Toluene-d8 | (85-110) |
| SMC4 | BFB | = | Bromofluorobenzene | (80-110) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

**VBLKW1-180915**

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID: 15SEP05.D Lab Sample ID: VBLKW1-180915

Date Analyzed: 9/15/2018 Time Analyzed: 12:48

GC Column: RTI 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: VMS10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | VLCSW1-180915 | VLCSW1-180915 | 15SEP03.D | 12:16 |
| 02 | OTF-SW-01-091418 | 1809940-01B DF100 | 15SEP07.D | 15:18 |
| 03 | OTF-SW-03-091518 | 1809940-03B DF10 | 15SEP09.D | 15:51 |
| 04 | OTF-SW-02-091518 | 1809940-02B DF50 | 15SEP10.D | 16:07 |
| 05 | OTF-SW-01-091418 | 1809940-01B DF25 | 15SEP11.D | 16:24 |
| 06 | OTF-SW-02-091518 | 1809940-02B DF10 | 15SEP12.D | 16:40 |
| 07 | OTF-SW-03-091518 | 1809940-03B DF2 | 15SEP13.D | 16:57 |
| 08 | OTF-SW-01-091418 | 1809940-01B MS DF100 | 15SEP14.D | 17:13 |
| 09 | OTF-SW-01-091418 | 1809940-01B MSD DF10 | 15SEP15.D | 17:30 |

COMMENTS

5A

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: ALS Environmental Contract: _____

Lab Code: MI00028 Case No.: _____ SAS No.: _____ SDG No.: 1809940

Lab File ID: 15SEP01.D BFB Injection Date: 9/15/2018

Instrument ID: VMS10 BFB Injection Time: 11:13

GC Column: RTI 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 15.5 |
| 75 | 30.0 - 66.0% of mass 95 | 45.8 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0)1 |
| 174 | 50.0 - 120.0% of mass 95 | 83.5 |
| 175 | 4.0 - 9.0% of mass 174 | 5.9 ( 7.1)1 |
| 176 | 93.0 - 101.0% of mass 174 | 81.1 ( 97.2)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.9 ( 7.2)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | VSTD01 | VCCV1-180915 | 15SEP02.D | 9/15/2018 | 11:36 |
| 02 | VLCSW1-180915 | VLCSW1-180915 | 15SEP03.D | 9/15/2018 | 12:16 |
| 03 | VBLKW1-180915 | VBLKW1-180915 | 15SEP05.D | 9/15/2018 | 12:48 |
| 04 | OTF-SW-01-0914 | 1809940-01B DF100 | 15SEP07.D | 9/15/2018 | 15:18 |
| 05 | OTF-SW-03-0915 | 1809940-03B DF10 | 15SEP09.D | 9/15/2018 | 15:51 |
| 06 | OTF-SW-02-0915 | 1809940-02B DF50 | 15SEP10.D | 9/15/2018 | 16:07 |
| 07 | OTF-SW-01-0914 | 1809940-01B DF25 | 15SEP11.D | 9/15/2018 | 16:24 |
| 08 | OTF-SW-02-0915 | 1809940-02B DF10 | 15SEP12.D | 9/15/2018 | 16:40 |
| 09 | OTF-SW-03-0915 | 1809940-03B DF2 | 15SEP13.D | 9/15/2018 | 16:57 |
| 10 | OTF-SW-01-0914 | 1809940-01B MS DF10 | 15SEP14.D | 9/15/2018 | 17:13 |
| 11 | OTF-SW-01-0914 | 1809940-01B MSD DF1 | 15SEP15.D | 9/15/2018 | 17:30 |

8A

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID (Standard): 15SEP02.D Date Analyzed: 9/15/2018

Instrument ID: 5977_VOA Time Analyzed: 11:36

GC Column: ID: 0.18 (mm) Heated Purge (Y/N): N

| | | IS1PFB AREA # | RT # | IS2DFB AREA # | RT # | IS3CBZ AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 167821 | 4.99 | 266790 | 6.27 | 249389 | 8.84 |
| | UPPER LIMIT | 335642 | 5.49 | 533580 | 6.77 | 498778 | 9.34 |
| | LOWER LIMIT | 83911 | 4.49 | 133395 | 5.77 | 124695 | 8.34 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VLCSW1-180 | 172102 | 4.99 | 273223 | 6.28 | 261428 | 8.84 |
| 02 | VBLKW1-1809 | 151721 | 4.99 | 245305 | 6.28 | 233693 | 8.84 |
| 03 | OTF-SW-01-0 | 154255 | 4.99 | 249332 | 6.28 | 246704 | 8.84 |
| 04 | OTF-SW-03-0 | 149941 | 4.99 | 244818 | 6.28 | 244517 | 8.85 |
| 05 | OTF-SW-02-0 | 147421 | 4.99 | 237912 | 6.28 | 236298 | 8.84 |
| 06 | OTF-SW-01-0 | 148950 | 4.99 | 241965 | 6.28 | 247116 | 8.84 |
| 07 | OTF-SW-02-0 | 148475 | 4.99 | 238610 | 6.28 | 245715 | 8.85 |
| 08 | OTF-SW-03-0 | 150884 | 4.99 | 244992 | 6.28 | 252887 | 8.84 |
| 09 | OTF-SW-01-0 | 158597 | 4.99 | 253788 | 6.28 | 248679 | 8.85 |
| 10 | OTF-SW-01-0 | 162586 | 4.99 | 261696 | 6.28 | 256039 | 8.84 |

IS1 PFB = Pentafluorobenzene
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5
IS4 DCB = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID (Standard): 15SEP02.D Date Analyzed: 9/15/2018

Instrument ID: 5977_VOA Time Analyzed: 11:36

GC Column: ID: 0.18 (mm) Heated Purge (Y/N): Y

| | | IS4DCB AREA # | RT # | AREA # | RT # | AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 120712 | 10.15 | | | | |
| | UPPER LIMIT | 241424 | 9.65 | | | | |
| | LOWER LIMIT | 60356 | 10.65 | | | | |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VLCSW1-180 | 127814 | 10.15 | | | | |
| 02 | VBLKW1-1809 | 99640 | 10.15 | | | | |
| 03 | OTF-SW-01-0 | 105235 | 10.15 | | | | |
| 04 | OTF-SW-03-0 | 105369 | 10.15 | | | | |
| 05 | OTF-SW-02-0 | 102881 | 10.15 | | | | |
| 06 | OTF-SW-01-0 | 105537 | 10.15 | | | | |
| 07 | OTF-SW-02-0 | 104552 | 10.15 | | | | |
| 08 | OTF-SW-03-0 | 113615 | 10.15 | | | | |
| 09 | OTF-SW-01-0 | 127542 | 10.15 | | | | |
| 10 | OTF-SW-01-0 | 127324 | 10.15 | | | | |

IS1 PFB = Pentafluorobenzene
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5
IS4 DCB = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP11.D
Acq On : 15 Sep 2018 04:24 pm
Operator : LNS
Sample : 1809940-01B DF25
Misc :
ALS Vial : 10 Sample Multiplier: 1

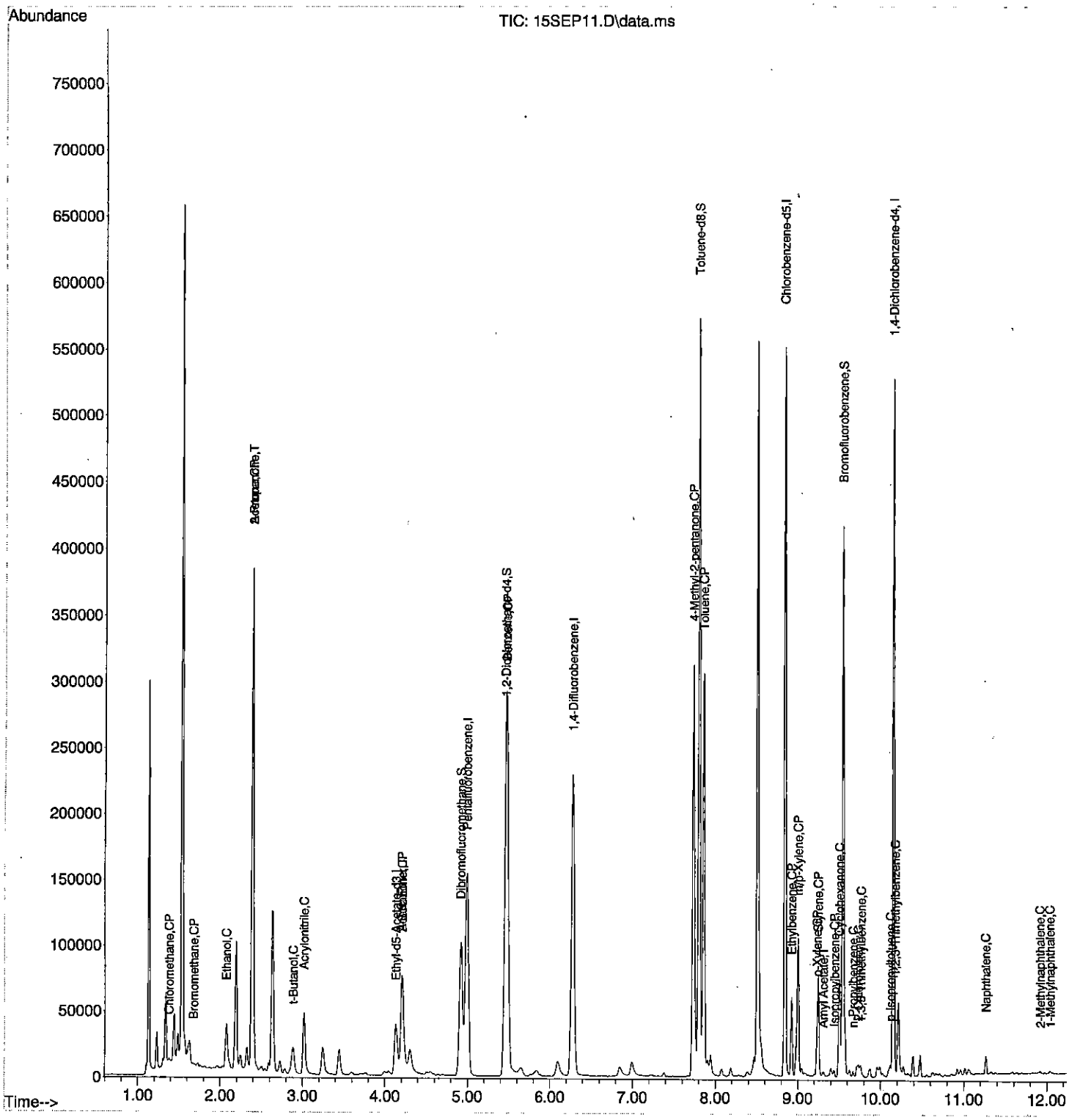
Quant Time: Sep 16 10:38:49 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

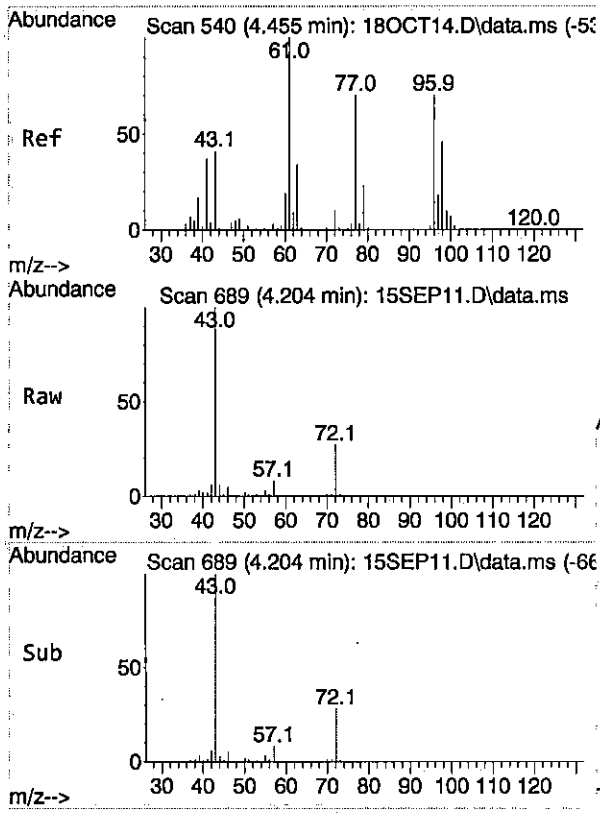
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 148950 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.275 | 114 | 241965 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 247116 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 105537 | 20.00 | ug/L | # 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 70002 | 20.00 | ug/L | # 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 87409 | 20.46 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 102.30% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 110657 | 21.15 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 105.75% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 331701 | 19.60 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 98.00% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 113785 | 18.79 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 93.95% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Chloromethane | 1.378 | 50 | 1648 | 0.26 | ug/L | 81 |
| 5) Bromomethane | 1.677 | 96 | 758 | 0.36 | ug/L # | 88 |
| 8) Ethanol | 2.076 | 45 | 36684 | 120.95 | ug/L | 100 |
| 10) Acrolein | 2.275 | 56 | 174 | Below Cal | # | 14 |
| 14) Acetone | 2.390 | 43 | 391019 | 148.67 | ug/L | 96 |
| 21) Methylene chloride | 2.789 | 49 | 1709 | Below Cal | | 92 |
| 23) t-Butanol | 2.888 | 59 | 21703 | 20.13 | ug/L # | 92 |
| 24) Acrylonitrile | 3.020 | 53 | 38455 | 13.72 | ug/L | 93 |
| 33) 2-Butanone | 4.204 | 43 | 125082 | 35.20 | ug/L | 94 |
| 49) Benzene | 5.473 | 78 | 269228 | 18.80 | ug/L | 100 |
| 51) Isobutyl Alcohol | 5.772 | 43 | 615 | Below Cal | # | 83 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 191144 | 29.96 | ug/L | 98 |
| 67) Toluene | 7.859 | 91 | 186895 | 11.64 | ug/L | 99 |
| 80) Ethylbenzene | 8.923 | 91 | 32492 | 2.22 | ug/L | 99 |
| 81) m/p-Xylene | 9.002 | 91 | 49902 | 4.43 | ug/L | 100 |
| 82) Styrene | 9.243 | 104 | 27808 | 3.46 | ug/L | 91 |
| 83) o-Xylene | 9.233 | 91 | 10504 | 1.05 | ug/L | 100 |
| 84) Cyclohexanone | 9.500 | 55 | 25462 | 74.18 | ug/L | 95 |
| 86) Isopropylbenzene | 9.442 | 105 | 2434 | 0.47 | ug/L | 92 |
| 91) n-Propylbenzene | 9.668 | 91 | 2786 | 0.40 | ug/L | 93 |
| 92) 2-Chlorotoluene | 9.731 | 91 | 1324 | 0.13 | ug/L | 98 |
| 94) 1,3,5-Trimethylbenzene | 9.762 | 105 | 1066 | 0.42 | ug/L | 90 |
| 101) p-Isopropyltoluene | 10.119 | 119 | 4716 | 0.78 | ug/L | 88 |
| 103) 1,2,3-Trimethylbenzene | 10.171 | 105 | 5696 | 0.69 | ug/L | 91 |
| 112) Naphthalene | 11.267 | 128 | 9198 | 0.93 | ug/L | 97 |
| 114) 2-Methylnaphthalene | 11.922 | 142 | 847 | 0.26 | ug/L | 83 |
| 115) 1-Methylnaphthalene | 12.043 | 142 | 935 | 0.34 | ug/L | 83 |
| 117) 2-Propanone | 2.390 | 43 | 391019 | 144.37 | ug/L | 96 |
| 118) Acetic Ether | 4.204 | 43 | 127510 | 21.55 | ug/L # | 67 |
| 120) Amyl Acetate | 9.306 | 43 | 1200 | 0.50 | ug/L # | 1 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP11.D
Acq On : 15 Sep 2018 04:24 pm
Operator : LNS
Sample : 1809940-01B DF25
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 10:38:49 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

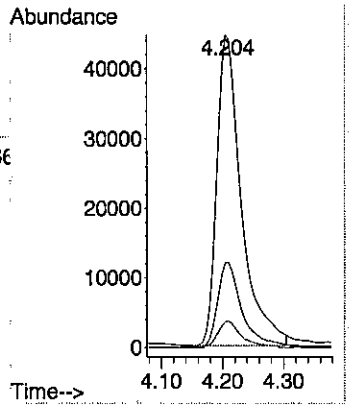


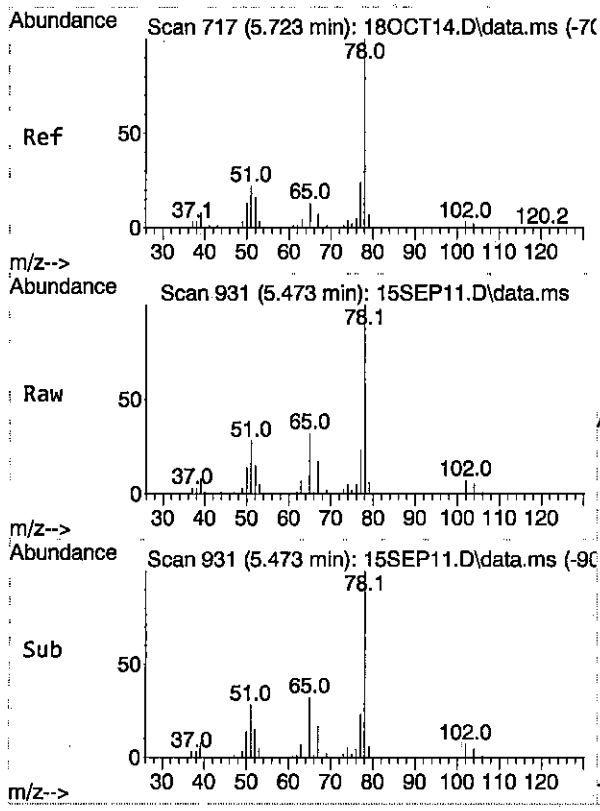



#33
2-Butanone
Concen: 35.20 ug/L
RT: 4.204 min Scan# 689
Delta R.T. -0.001 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 43 Resp: 125082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 11.4 | 51.4 |
| 57 | 8.3 | 0.0 | 29.1 |

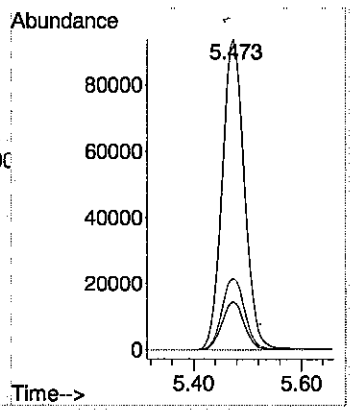


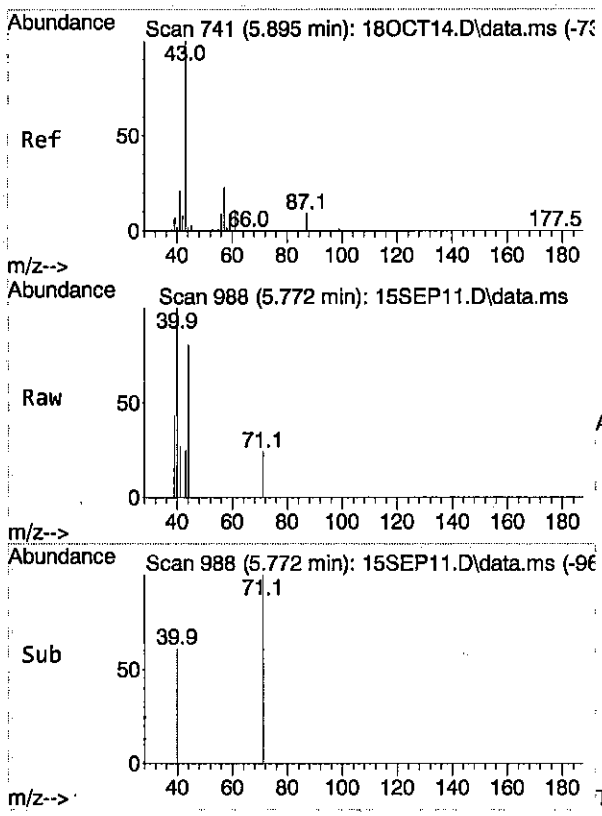




#49
Benzene
Concen: 18.80 ug/L
RT: 5.473 min Scan# 931
Delta R.T. 0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 78 Resp: 269228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 15.7 | 0.0 | 35.6 |
| 77 | 23.6 | 3.7 | 43.7 |

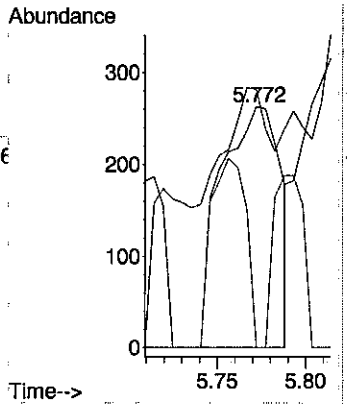


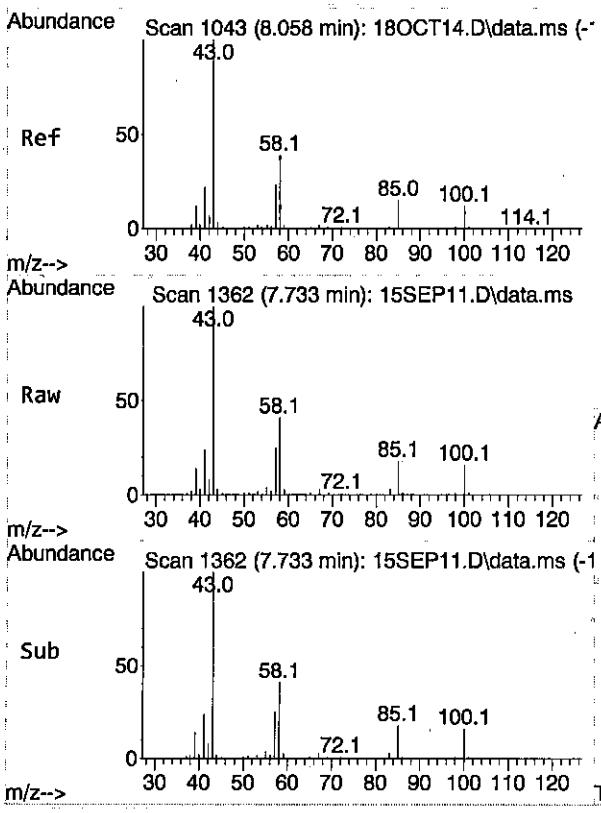



#51
Isobutyl Alcohol
Concen: Below Cal
RT: 5.772 min Scan# 988
Delta R.T. 0.026 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 43 Resp: 615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 41 | 45.4 | 38.9 | 58.3 |
| 42 | 45.9 | 20.4 | 30.6# |

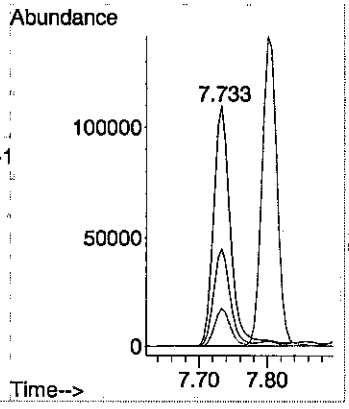


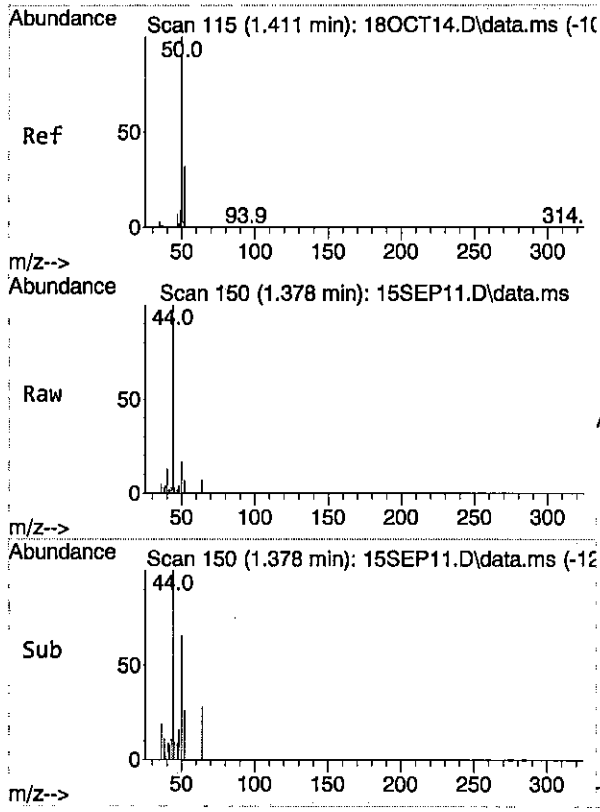




#65
4-Methyl-2-pentanone
Concen: 29.96 ug/L
RT: 7.733 min Scan# 1362
Delta R.T. 0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 43 Resp: 191144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.7 | 21.2 | 61.2 |
| 100 | 14.8 | 0.0 | 35.2 |

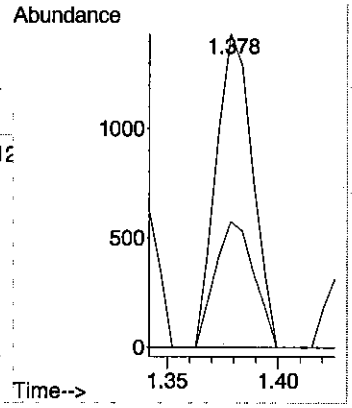


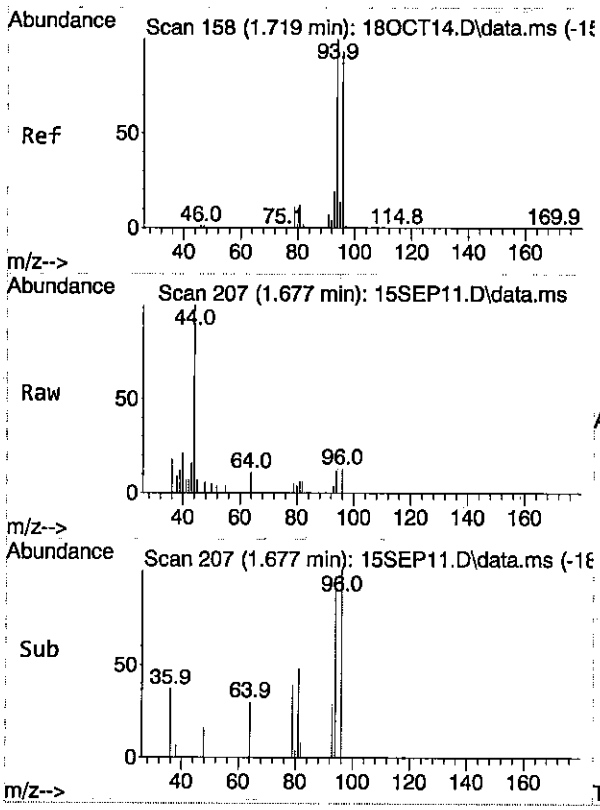



#3
Chloromethane
Concen: 0.26 ug/L
RT: 1.378 min Scan# 150
Delta R.T. -0.001 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 50 Resp: 1648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 42.9 | 12.4 | 52.4 |

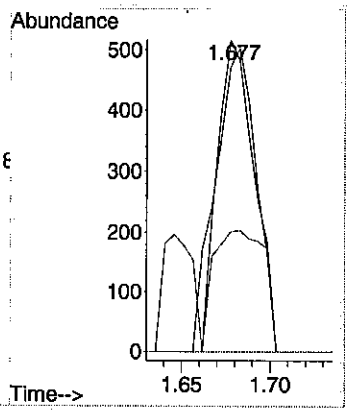


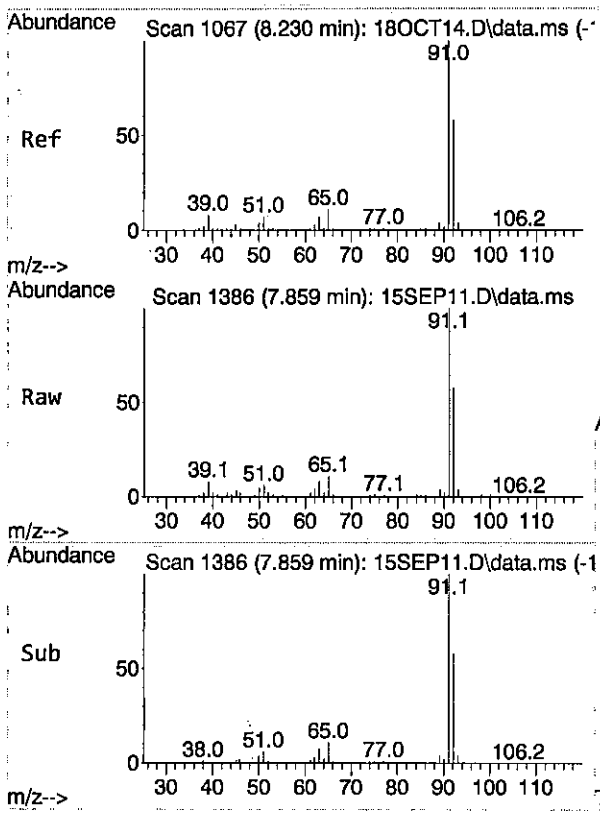




#5
Bromomethane
Concen: 0.36 ug/L
RT: 1.677 min Scan# 207
Delta R.T. 0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 96 Resp: 758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 94 | 107.3 | 86.8 | 126.8 |
| 79 | 53.7 | 0.0 | 38.5# |

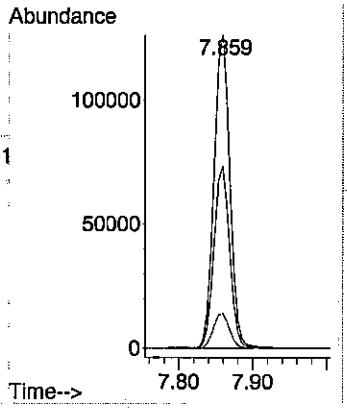


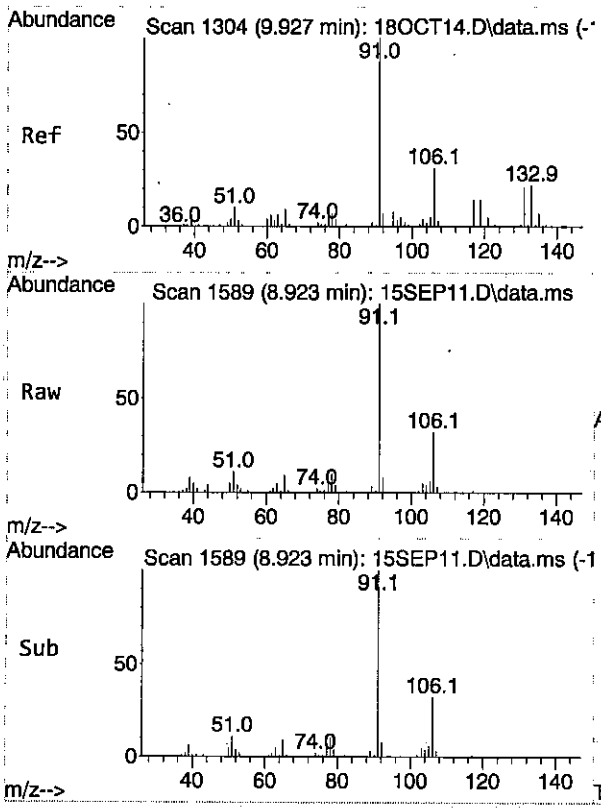



#67
Toluene
Concen: 11.64 ug/L
RT: 7.859 min Scan# 1386
Delta R.T. -0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 91 Resp: 186895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.1 | 38.5 | 78.5 |
| 65 | 11.6 | 0.0 | 31.7 |

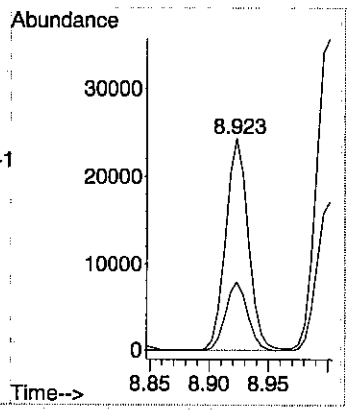


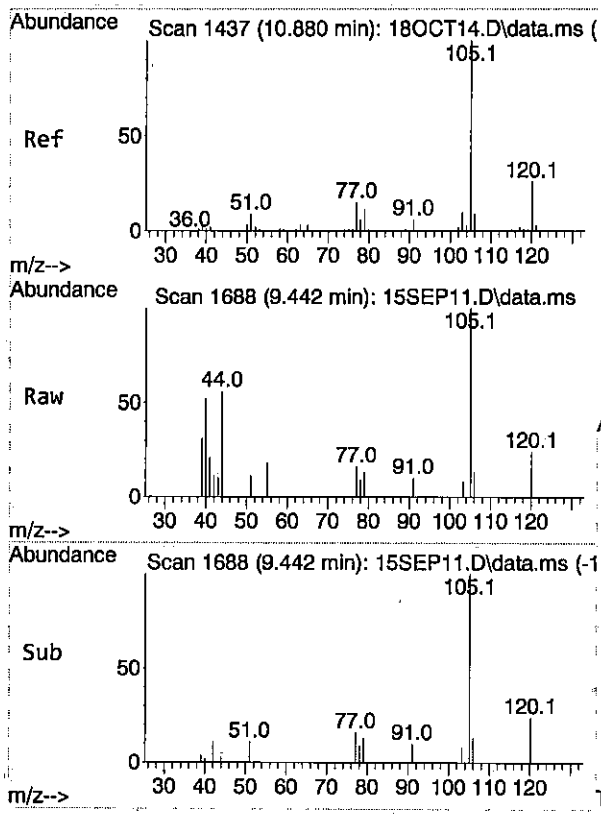




#80
Ethylbenzene
Concen: 2.22 ug/L
RT: 8.923 min Scan# 1589
Delta R.T. 0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 91 Resp: 32492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 10.6 | 50.6 |

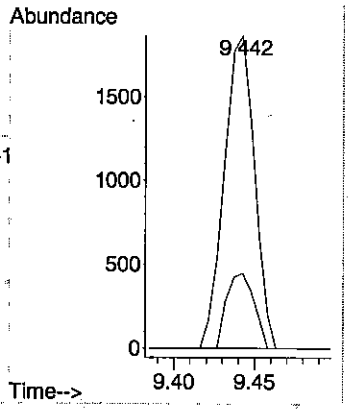


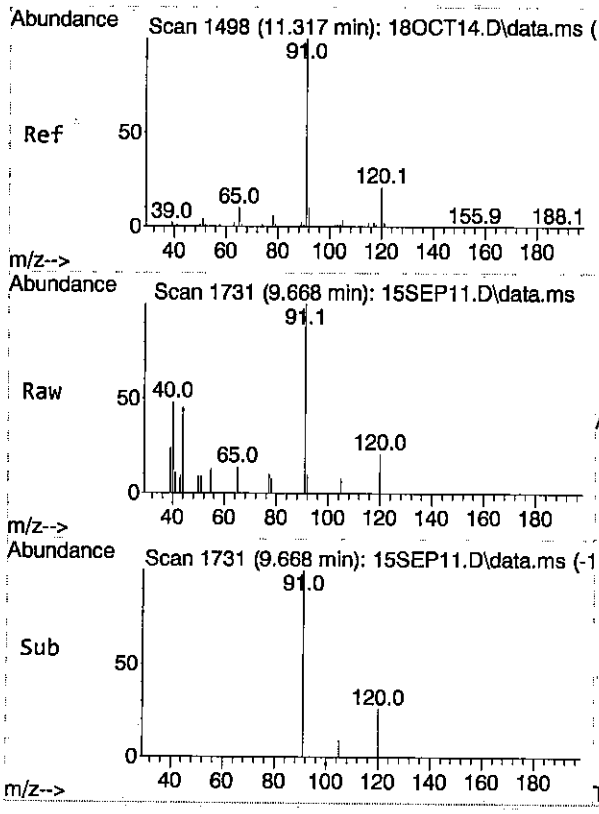



#86
Isopropylbenzene
Concen: 0.47 ug/L
RT: 9.442 min Scan# 1688
Delta R.T. 0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion:105 Resp: 2434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 21.7 | 5.6 | 45.6 |

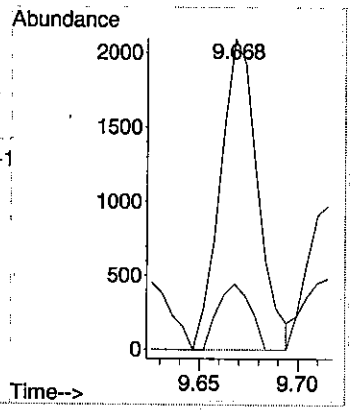


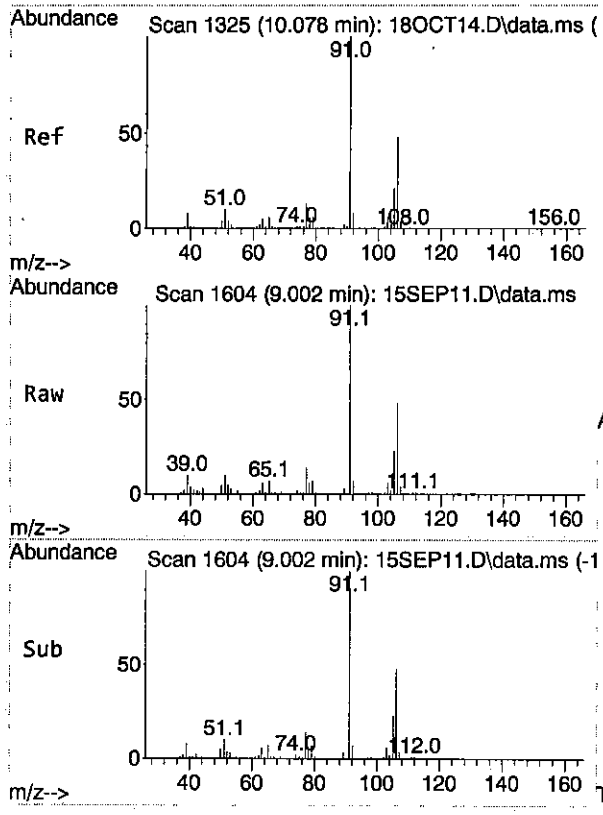




#91
n-Propylbenzene
Concen: 0.40 ug/L
RT: 9.668 min Scan# 1731
Delta R.T. -0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 91 Resp: 2786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 18.4 | 1.7 | 41.7 |

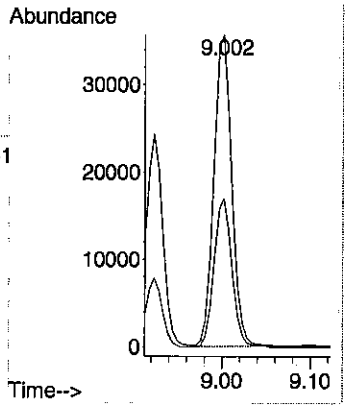


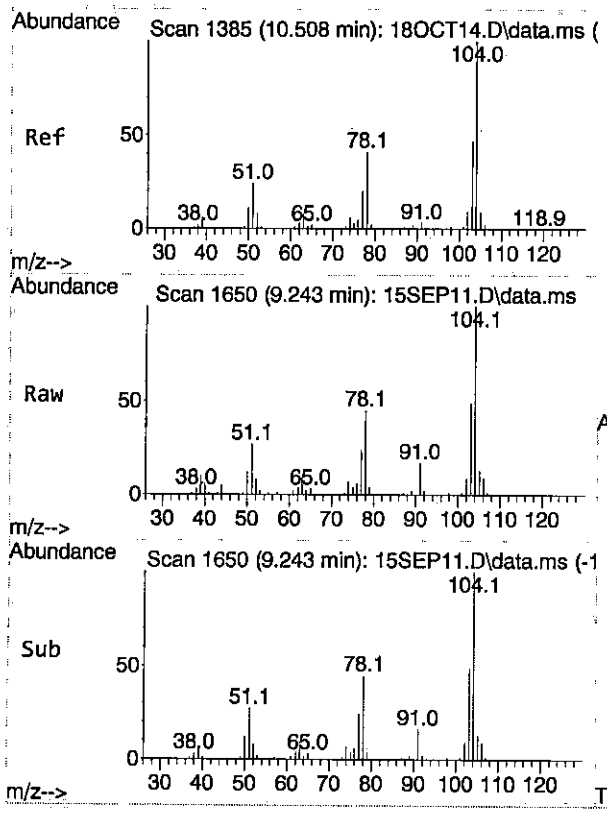



#81
m/p-Xylene
Concen: 4.43 ug/L
RT: 9.002 min Scan# 1604
Delta R.T. -0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 91 Resp: 49902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.1 | 28.4 | 68.4 |

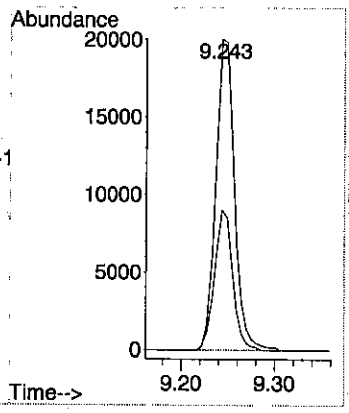


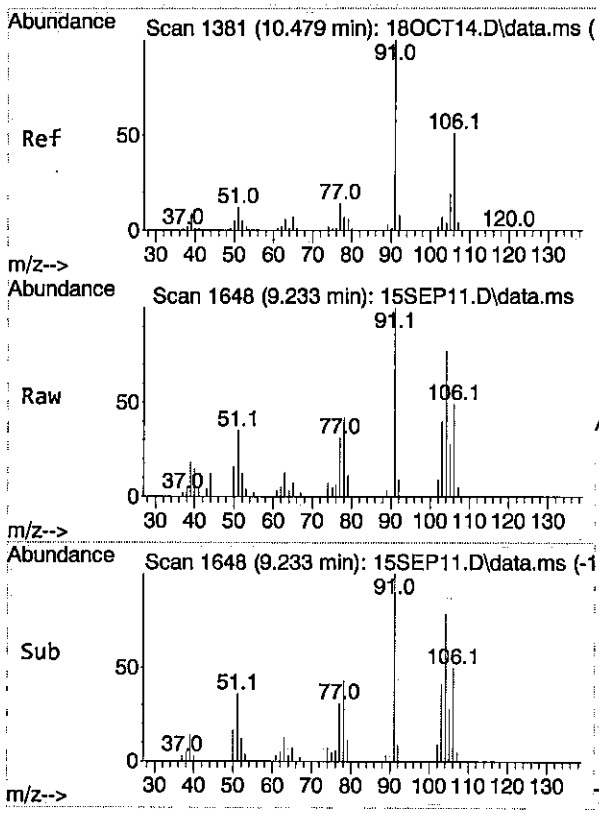




#82
Styrene
Concen: 3.46 ug/L
RT: 9.243 min Scan# 1650
Delta R.T. 0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion:104 Resp: 27808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 44.0 | 30.4 | 70.4 |

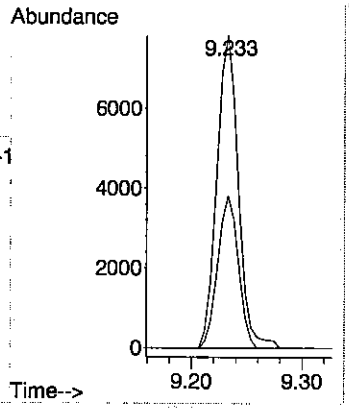


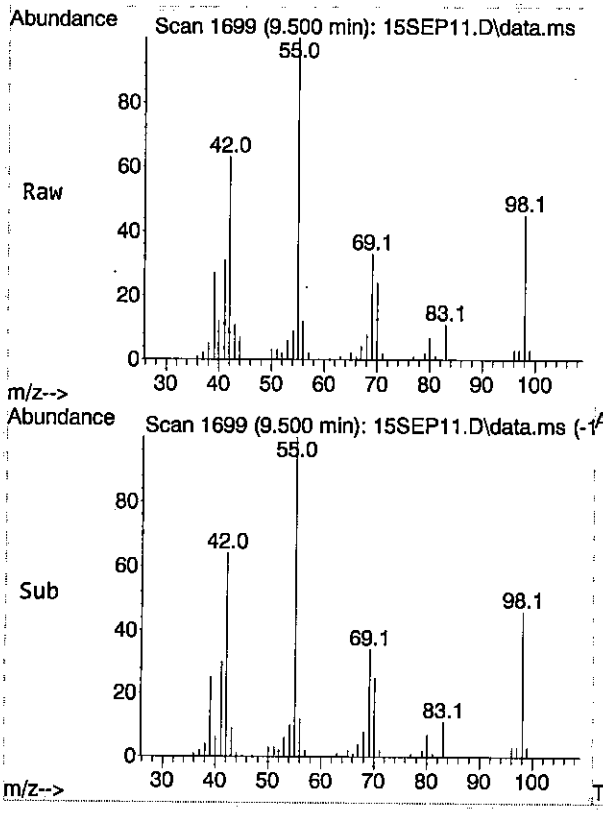



#83
o-Xylene
Concen: 1.05 ug/L
RT: 9.233 min Scan# 1648
Delta R.T. -0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 91 Resp: 10504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.8 | 27.0 | 67.0 |

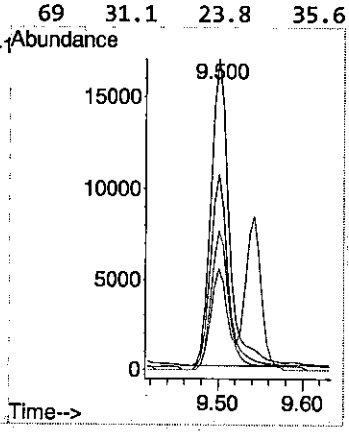



#84
Cyclohexanone
Concen: 74.18 ug/L
RT: 9.500 min Scan# 1699
Delta R.T. -0.000 min
Lab File: 15SEP11.D
Acq: 15 Sep 2018 04:24 pm

Tgt Ion: 55 Resp: 25462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 42 | 65.9 | 47.7 | 71.5 |
| 98 | 45.8 | 36.0 | 54.0 |
| 69 | 31.1 | 23.8 | 35.6 |



# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP07.D
Acq On : 15 Sep 2018 03:18 pm
Operator : LNS
Sample : 1809940-01B DF100
Misc :
ALS Vial : 6 Sample Multiplier: 1

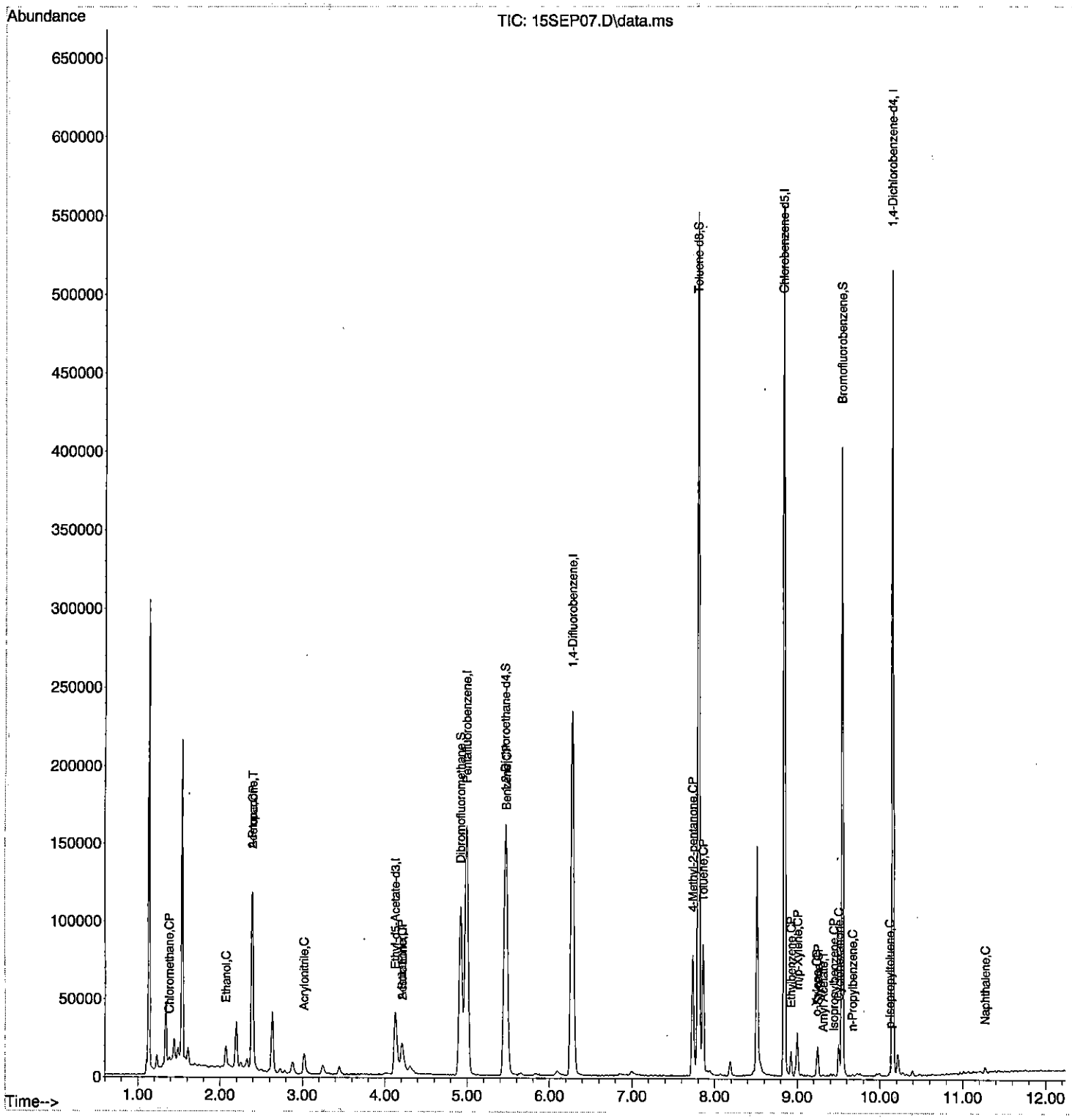
Quant Time: Sep 15 15:33:42 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

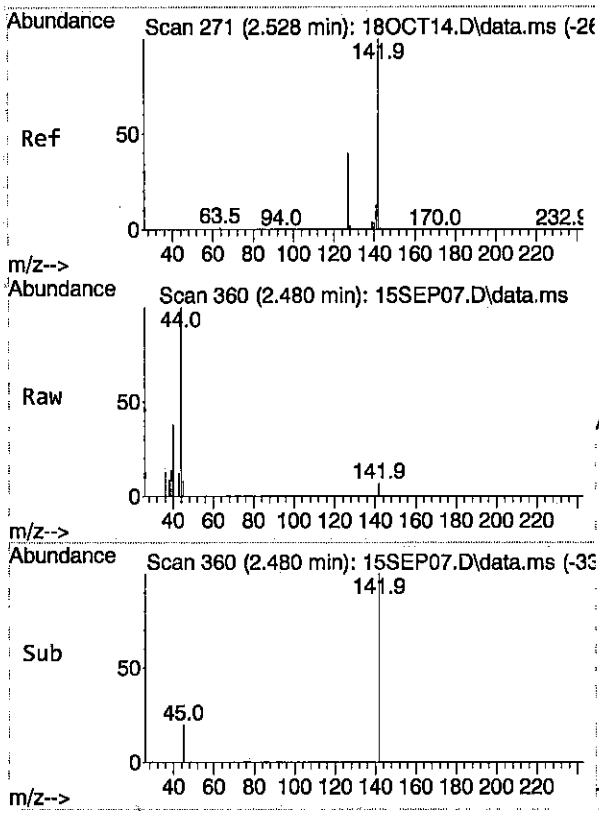
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 154255 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 249332 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 246704 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 105235 | 20.00 | ug/L | # 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.126 | 46 | 71744 | 20.00 | ug/L | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 93292 | 21.19 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 105.95% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 113126 | 20.98 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 104.90% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 321034 | 19.00 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 95.00% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 109002 | 18.03 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 90.15% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Chloromethane | 1.379 | 50 | 1125 | 0.17 | ug/L | 90 |
| 8) Ethanol | 2.071 | 45 | 12713 | 35.83 | ug/L | 97 |
| 13) Methyl iodide | 2.480 | 142 | 105 | Below Cal | # | 42 |
| 14) Acetone | 2.390 | 43 | 117541 | 42.63 | ug/L | 98 |
| 21) Methylene chloride | 2.784 | 49 | 991 | Below Cal | | 89 |
| 24) Acrylonitrile | 3.020 | 53 | 11490 | 3.96 | ug/L | 99 |
| 33) 2-Butanone | 4.210 | 43 | 34993 | 10.26 | ug/L | 94 |
| 39) Methacrylonitrile | 4.524 | 41 | 367 | Below Cal | # | 51 |
| 49) Benzene | 5.473 | 78 | 81364 | 5.51 | ug/L | 100 |
| 51) Isobutyl Alcohol | 5.777 | 43 | 97 | Below Cal | # | 36 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 47560 | 7.61 | ug/L | 99 |
| 67) Toluene | 7.859 | 91 | 51753 | 3.23 | ug/L | 98 |
| 80) Ethylbenzene | 8.923 | 91 | 8830 | 0.76 | ug/L | 94 |
| 81) m/p-Xylene | 9.002 | 91 | 13643 | 1.60 | ug/L | 98 |
| 82) Styrene | 9.248 | 104 | 7110 | 0.98 | ug/L | 96 |
| 83) o-Xylene | 9.233 | 91 | 2945 | 0.45 | ug/L | 97 |
| 84) Cyclohexanone | 9.500 | 55 | 7843 | 23.51 | ug/L | 95 |
| 86) Isopropylbenzene | 9.442 | 105 | 801 | 0.36 | ug/L | 96 |
| 91) n-Propylbenzene | 9.668 | 91 | 1153m | 0.32 | ug/L | |
| 101) p-Isopropyltoluene | 10.119 | 119 | 1367 | 0.45 | ug/L | 91 |
| 112) Naphthalene | 11.272 | 128 | 2680m | 0.25 | ug/L | |
| 117) 2-Propanone | 2.390 | 43 | 117541 | 41.89 | ug/L | 98 |
| 118) Acetic Ether | 4.210 | 43 | 36046 | 5.94 | ug/L # | 67 |
| 120) Amyl Acetate | 9.311 | 43 | 99 | 0.31 | ug/L # | 1 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP07.D
Acq On : 15 Sep 2018 03:18 pm
Operator : LNS
Sample : 1809940-01B DF100
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 15 15:33:42 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

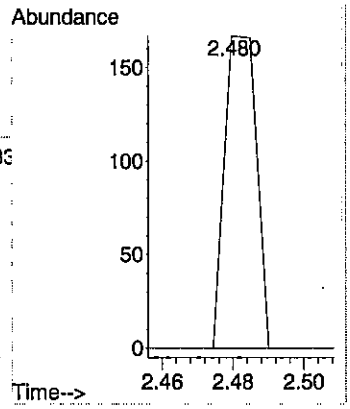


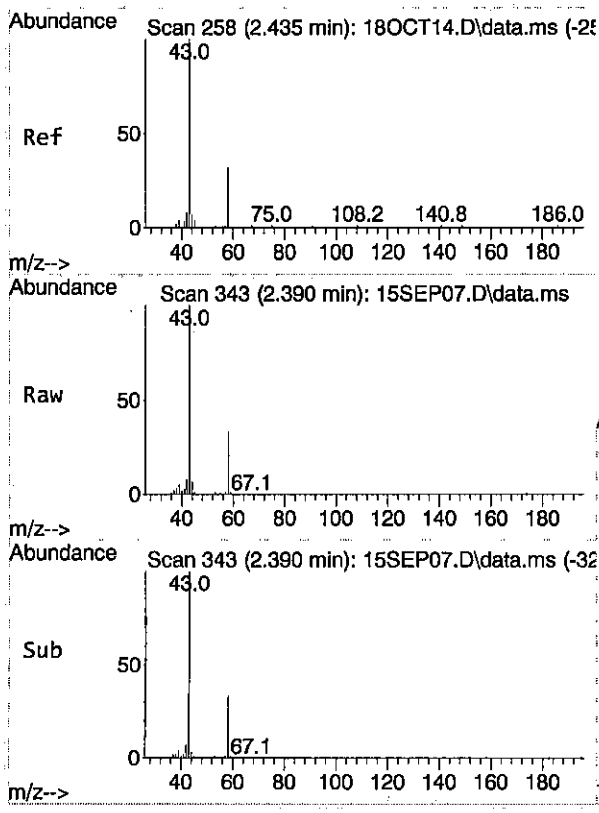



#13
Methyl iodide
Concen: Below Cal
RT: 2.480 min Scan# 360
Delta R.T. -0.005 min
Lab File: 15SEP07.D
Acq: 15 Sep 2018 03:18 pm

Tgt Ion:142 Resp: 105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 0.0 | 21.5 | 61.5# |
| 141 | 0.0 | 0.0 | 34.7 |

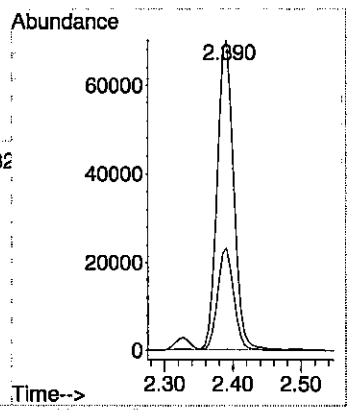



#14
Acetone
Concen: 42.63 ug/L
RT: 2.390 min Scan# 343
Delta R.T. -0.001 min
Lab File: 15SEP07.D
Acq: 15 Sep 2018 03:18 pm

Tgt Ion: 43 Resp: 117541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.8 | 14.0 | 54.0 |



# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP12.D
Acq On : 15 Sep 2018 04:40 pm
Operator : LNS
Sample : 1809940-02B DF10
Misc :
ALS Vial : 11 Sample Multiplier: 1

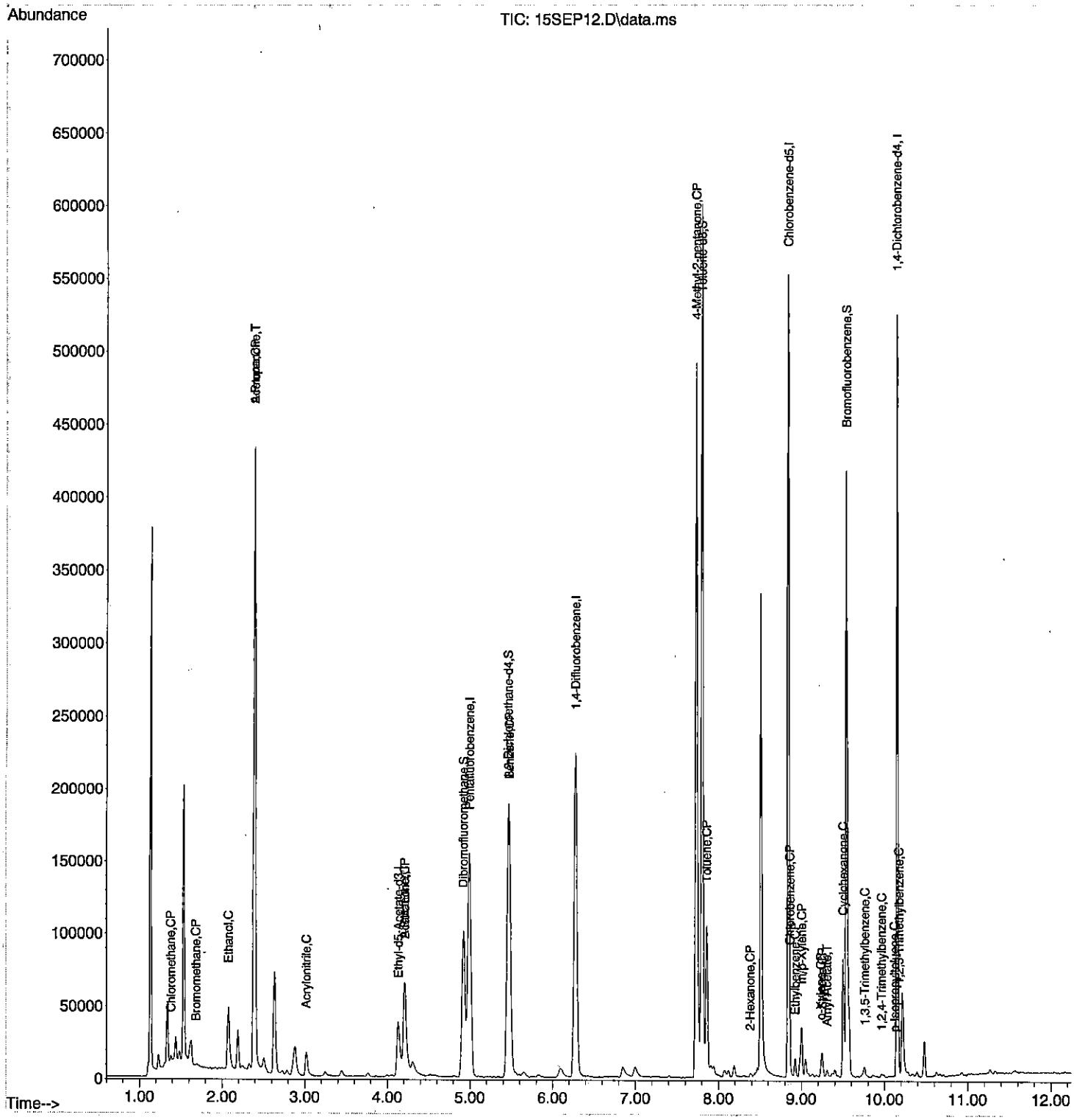
Quant Time: Sep 16 10:38:52 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

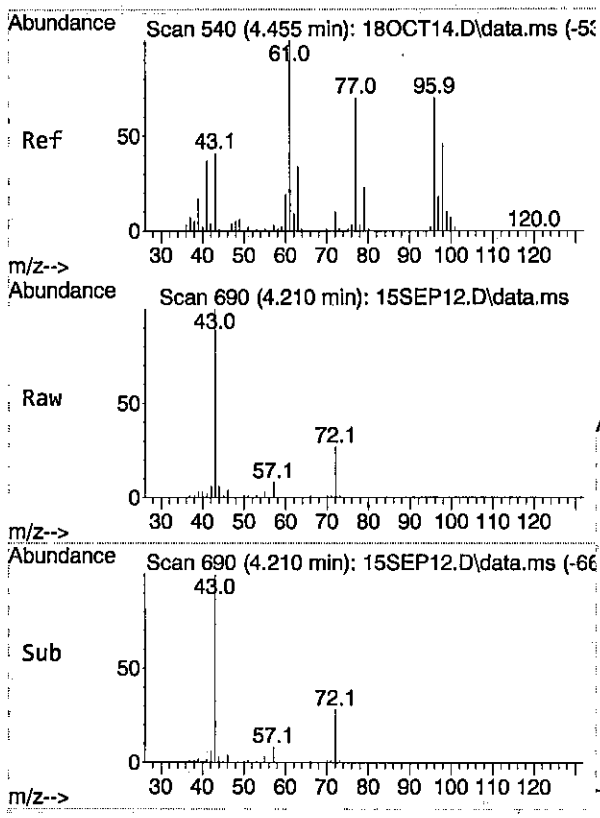
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 148475 | 20.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 238610 | 20.00 | ug/L | | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 245715 | 20.00 | ug/L | | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 104552 | 20.00 | ug/L | # | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 68591 | 20.00 | ug/L | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 86557 | 20.54 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 102.70% | | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 110373 | 21.39 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 106.95% | | | | |
| 66) Toluene-d8 | 7.801 | 98 | 341955 | 20.32 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 101.60% | | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 113104 | 18.78 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 93.90% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Chloromethane | 1.379 | 50 | 2057 | 0.33 | ug/L | | 95 |
| 5) Bromomethane | 1.683 | 96 | 575 | 0.19 | ug/L | # | 75 |
| 8) Ethanol | 2.076 | 45 | 46335 | 155.12 | ug/L | | 99 |
| 10) Acrolein | 2.275 | 56 | 273 | Below Cal | | # | 1 |
| 13) Methyl iodide | 2.480 | 142 | 161 | Below Cal | | # | 42 |
| 14) Acetone | 2.391 | 43 | 449564 | 171.58 | ug/L | | 95 |
| 21) Methylene chloride | 2.784 | 49 | 1731 | Below Cal | | | 95 |
| 24) Acrylonitrile | 3.020 | 53 | 13869 | 4.96 | ug/L | | 97 |
| 33) 2-Butanone | 4.210 | 43 | 105654 | 29.98 | ug/L | | 95 |
| 49) Benzene | 5.473 | 78 | 122736 | 8.69 | ug/L | | 99 |
| 51) Isobutyl Alcohol | 5.772 | 43 | 750 | Below Cal | | # | 75 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 294149 | 46.27 | ug/L | | 98 |
| 67) Toluene | 7.859 | 91 | 59818 | 3.75 | ug/L | | 98 |
| 74) 2-Hexanone | 8.378 | 43 | 1124 | 0.46 | ug/L | | 85 |
| 78) Chlorobenzene | 8.860 | 112 | 1690 | 0.17 | ug/L | # | 1 |
| 80) Ethylbenzene | 8.923 | 91 | 7605 | 0.69 | ug/L | | 89 |
| 81) m/p-Xylene | 9.002 | 91 | 16795 | 1.85 | ug/L | | 93 |
| 82) Styrene | 9.248 | 104 | 6724 | 0.93 | ug/L | | 88 |
| 83) o-Xylene | 9.233 | 91 | 2745 | 0.43 | ug/L | | 95 |
| 84) Cyclohexanone | 9.500 | 55 | 28348 | 82.95 | ug/L | | 98 |
| 94) 1,3,5-Trimethylbenzene | 9.762 | 105 | 266 | 0.35 | ug/L | | 81 |
| 96) 1,2,4-Trimethylbenzene | 9.961 | 105 | 927 | 0.43 | ug/L | | 98 |
| 101) p-Isopropyltoluene | 10.119 | 119 | 821 | 0.40 | ug/L | | 80 |
| 103) 1,2,3-Trimethylbenzene | 10.171 | 105 | 2031 | 0.39 | ug/L | | 96 |
| 117) 2-Propanone | 2.391 | 43 | 449564 | 169.51 | ug/L | | 95 |
| 118) Acetic Ether | 4.210 | 43 | 107614 | 18.56 | ug/L | # | 68 |
| 120) Amyl Acetate | 9.306 | 43 | 2351 | 0.70 | ug/L | # | 44 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP12.D
Acq On : 15 Sep 2018 04:40 pm
Operator : LNS
Sample : 1809940-02B DF10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 10:38:52 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

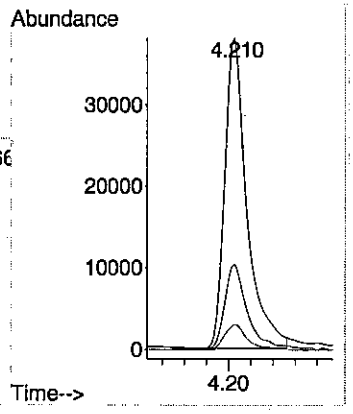


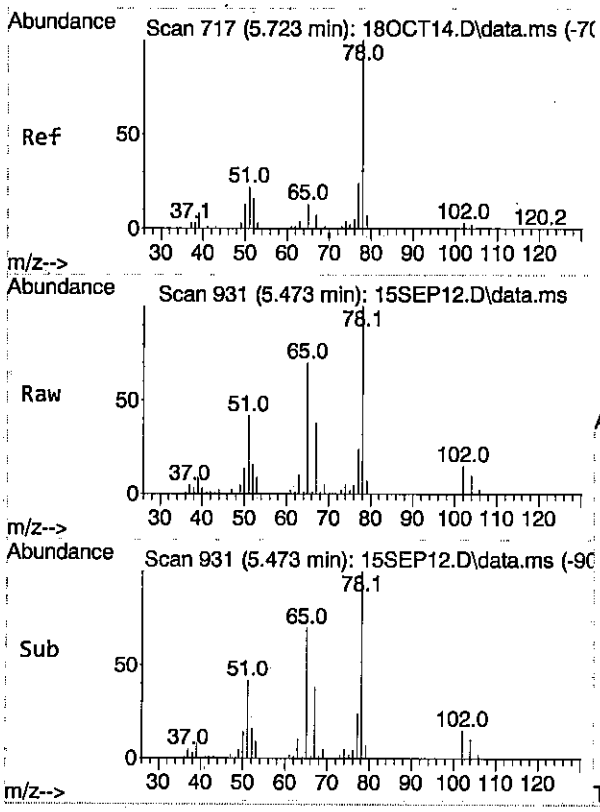



#33
2-Butanone
Concen: 29.98 ug/L
RT: 4.210 min Scan# 690
Delta R.T. 0.005 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 43 Resp: 105654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.9 | 11.4 | 51.4 |
| 57 | 8.4 | 0.0 | 29.1 |

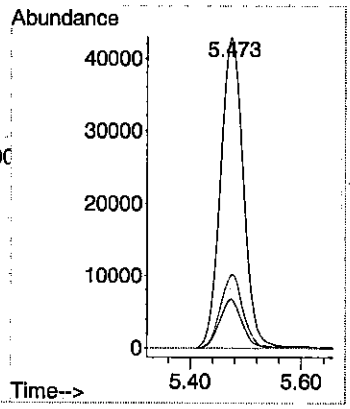


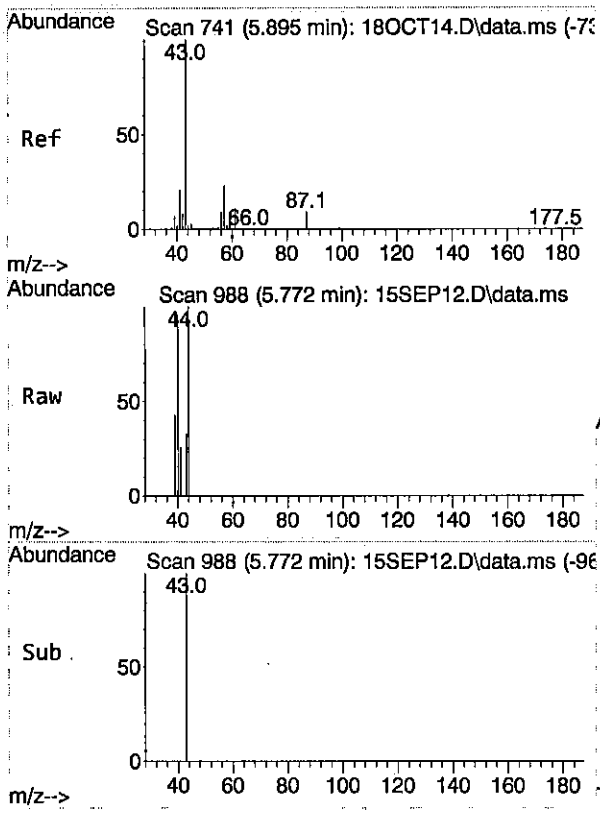




#49
Benzene
Concen: 8.69 ug/L
RT: 5.473 min Scan# 931
Delta R.T. 0.000 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 78 Resp: 122736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 15.8 | 0.0 | 35.6 |
| 77 | 23.3 | 3.7 | 43.7 |

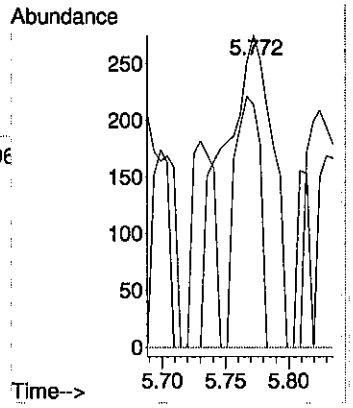


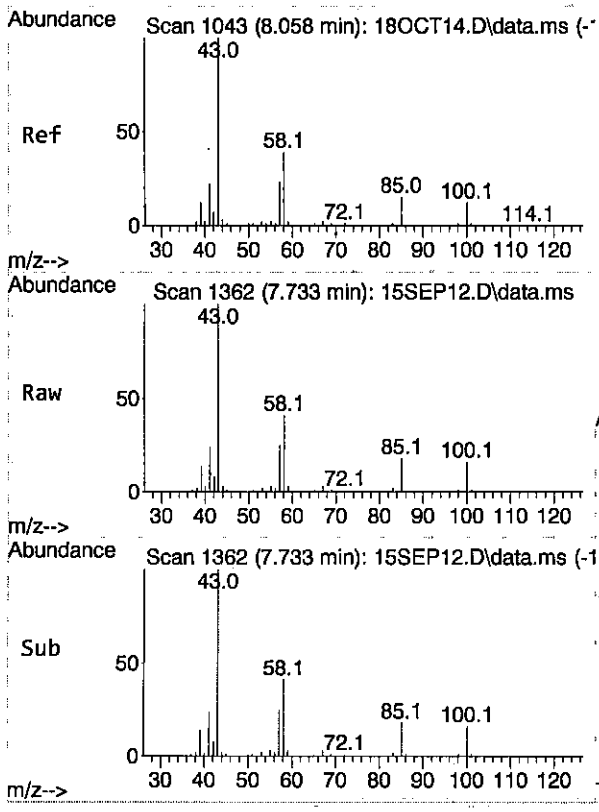



#51
Isobutyl Alcohol
Concen: Below Cal
RT: 5.772 min Scan# 988
Delta R.T. 0.026 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 43 Resp: 750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 41 | 40.9 | 38.9 | 58.3 |
| 42 | 0.0 | 20.4 | 30.6# |

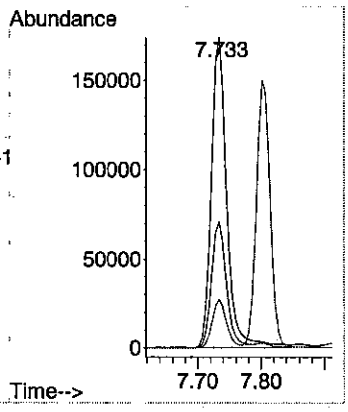


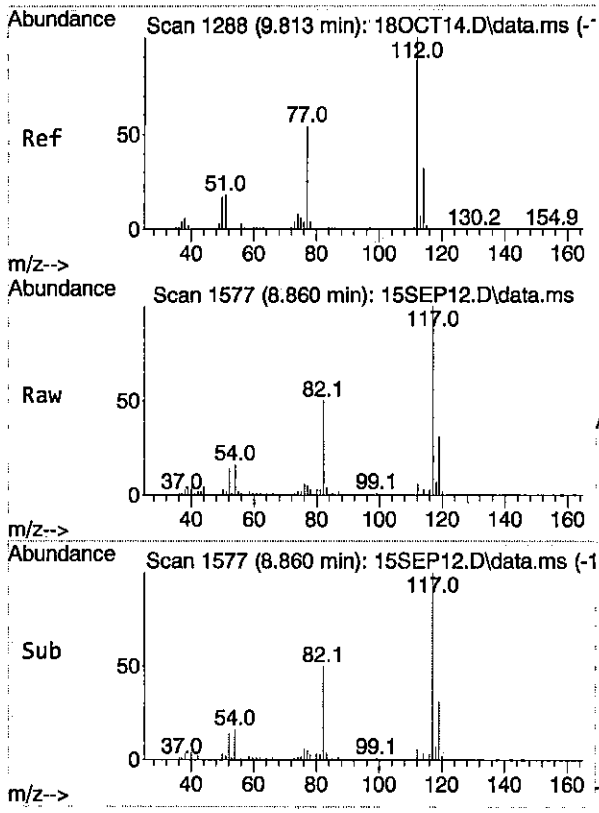




#65
4-Methyl-2-pentanone
Concen: 46.27 ug/L
RT: 7.733 min Scan# 1362
Delta R.T. 0.000 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 43 Resp: 294149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.8 | 21.2 | 61.2 |
| 100 | 14.8 | 0.0 | 35.2 |

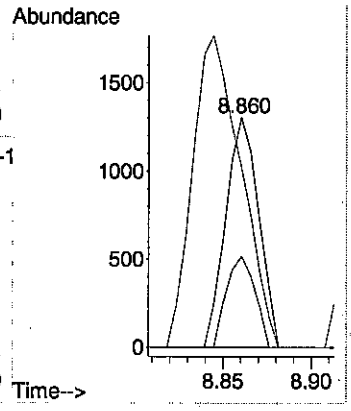


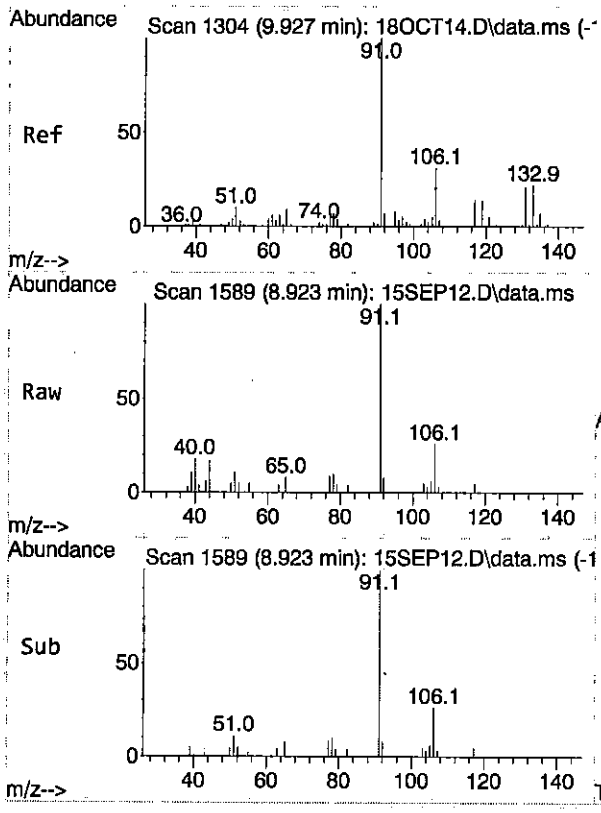



#78
Chlorobenzene
Concen: 0.17 ug/L
RT: 8.860 min Scan# 1577
Delta R.T. 0.000 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion:112 Resp: 1690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 34.3 | 12.1 | 52.1 |
| 77 | 197.5 | 41.3 | 81.3# |

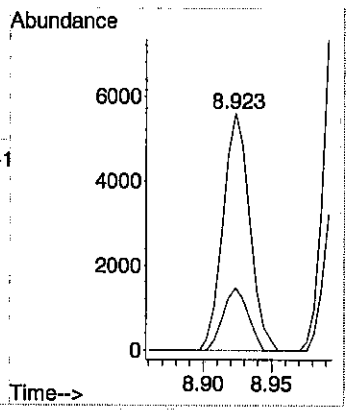


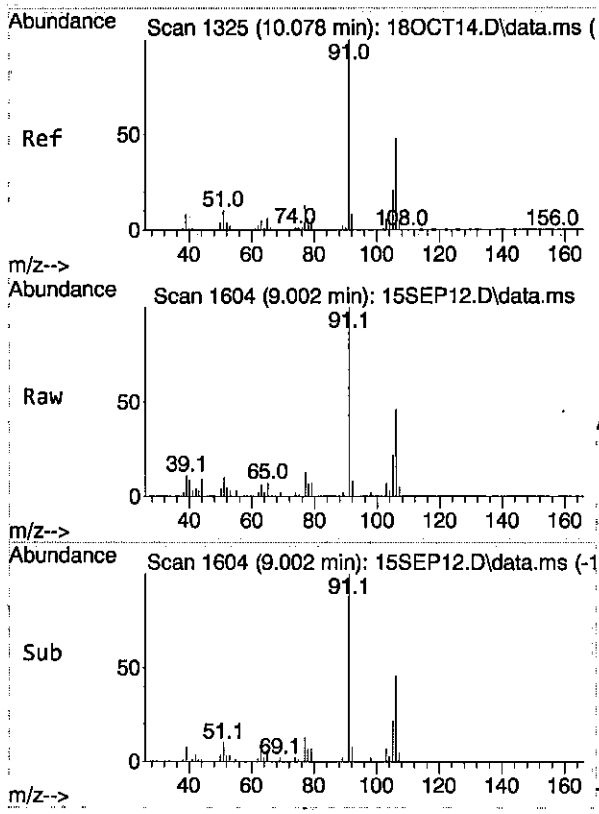




#80
Ethylbenzene
Concen: 0.69 ug/L
RT: 8.923 min Scan# 1589
Delta R.T. 0.000 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 91 Resp: 7605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 24.4 | 10.6 | 50.6 |

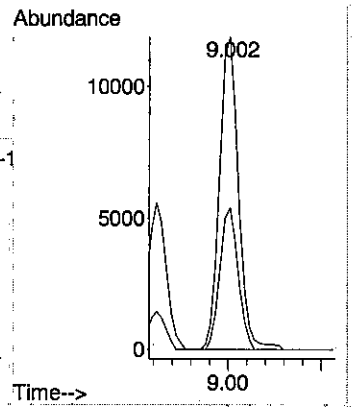


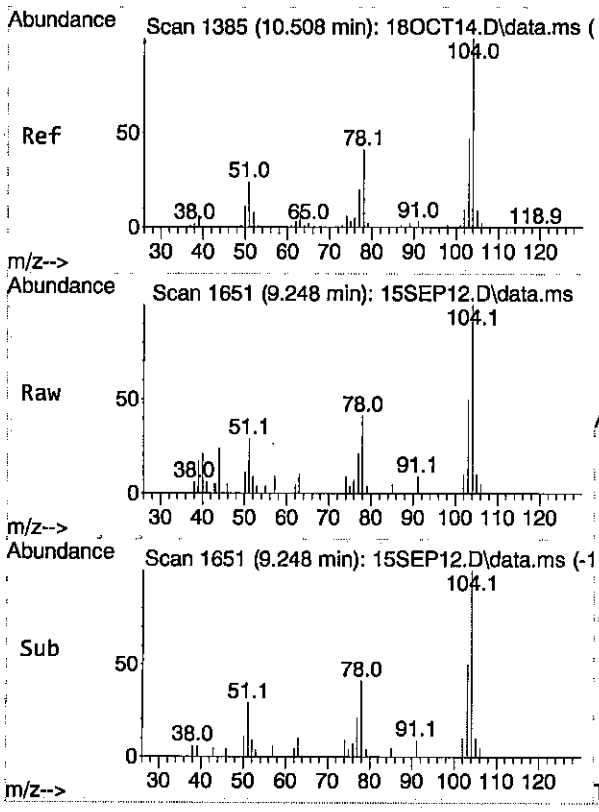



#81
m/p-Xylene
Concen: 1.85 ug/L
RT: 9.002 min Scan# 1604
Delta R.T. -0.000 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 91 Resp: 16795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.8 | 28.4 | 68.4 |

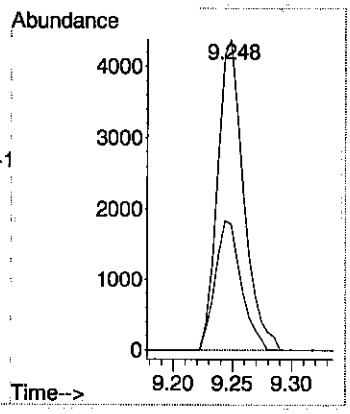


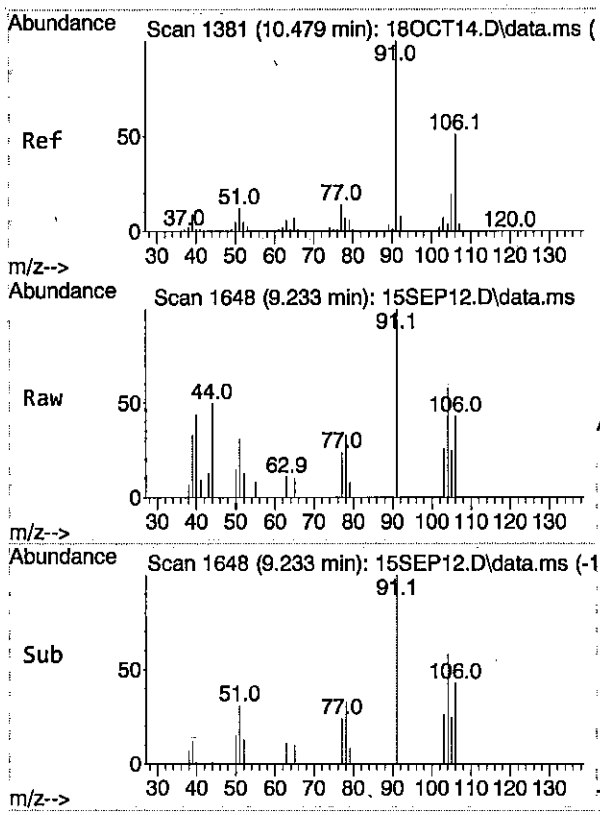




#82
Styrene
Concen: 0.93 ug/L
RT: 9.248 min Scan# 1651
Delta R.T. 0.005 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion:104 Resp: 6724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 42.0 | 30.4 | 70.4 |

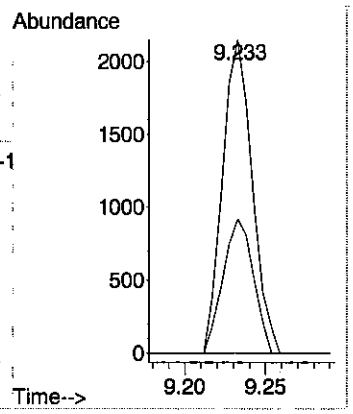


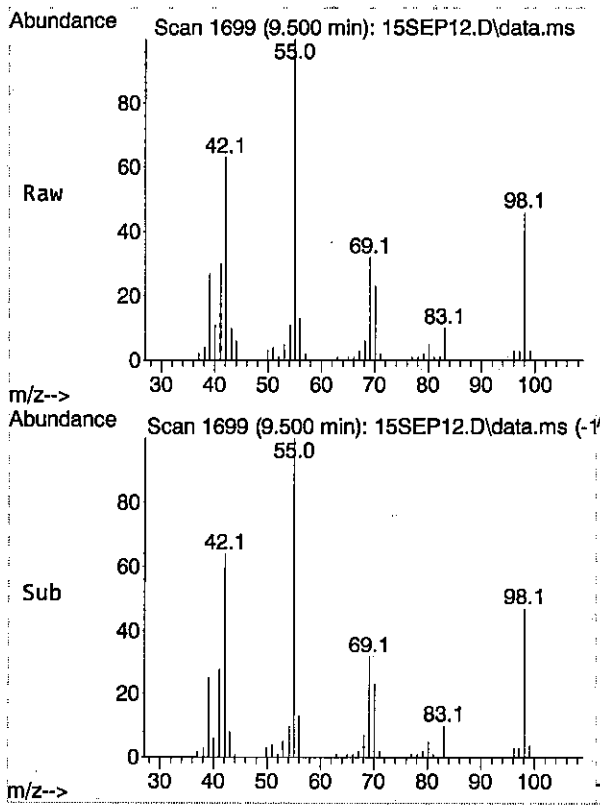



#83
o-Xylene
Concen: 0.43 ug/L
RT: 9.233 min Scan# 1648
Delta R.T. -0.000 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 91 Resp: 2745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.7 | 27.0 | 67.0 |

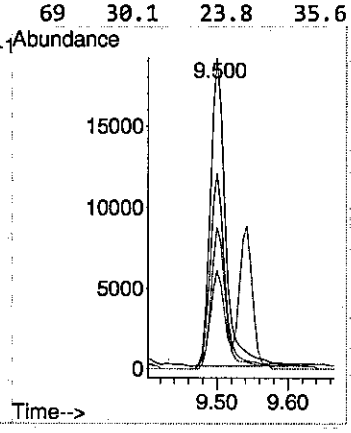


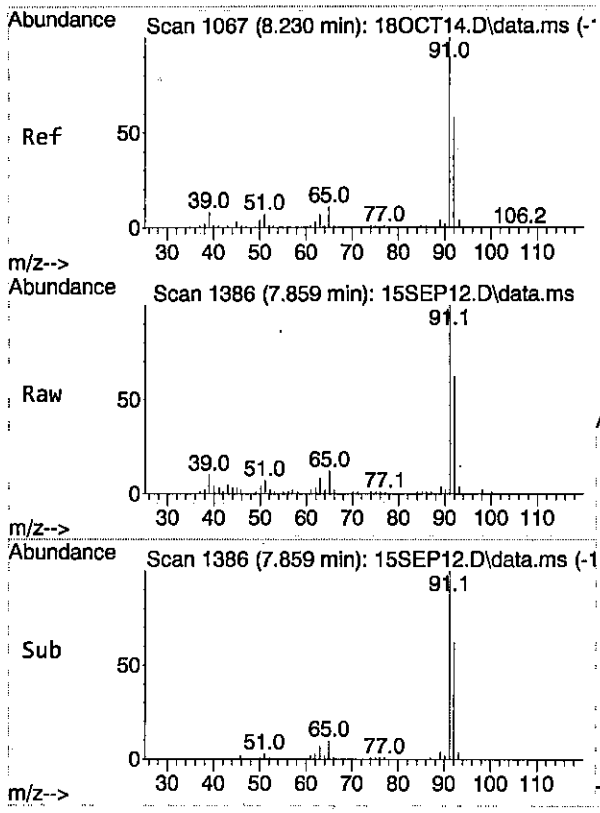




#84
Cyclohexanone
Concen: 82.95 ug/L
RT: 9.500 min Scan# 1699
Delta R.T. 0.000 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 55 Resp: 28348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 42 | 62.7 | 47.7 | 71.5 |
| 98 | 44.9 | 36.0 | 54.0 |
| 69 | 30.1 | 23.8 | 35.6 |

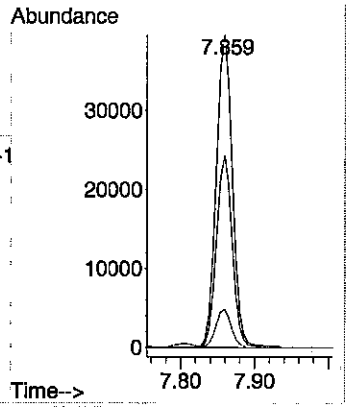


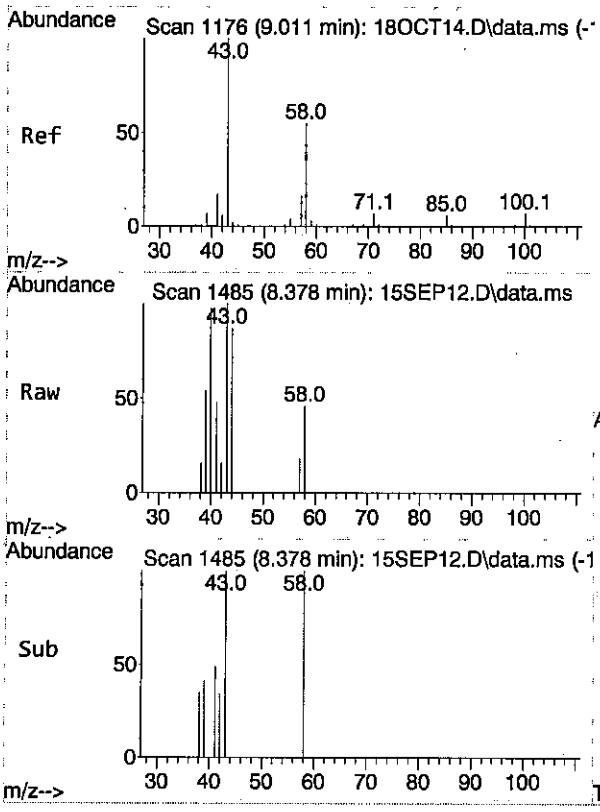



#67
Toluene
Concen: 3.75 ug/L
RT: 7.859 min Scan# 1386
Delta R.T. 0.000 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 91 Resp: 59818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.4 | 38.5 | 78.5 |
| 65 | 11.8 | 0.0 | 31.7 |

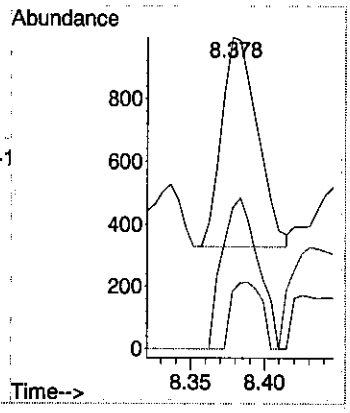



#74
2-Hexanone
Concen: 0.46 ug/L
RT: 8.378 min Scan# 1485
Delta R.T. 0.010 min
Lab File: 15SEP12.D
Acq: 15 Sep 2018 04:40 pm

Tgt Ion: 43 Resp: 1124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 73.1 | 40.6 | 80.6 |
| 57 | 26.7 | 0.9 | 40.9 |



# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP10.D
Acq On : 15 Sep 2018 04:07 pm
Operator : LNS
Sample : 1809940-02B DF50
Misc :
ALS Vial : 9 Sample Multiplier: 1

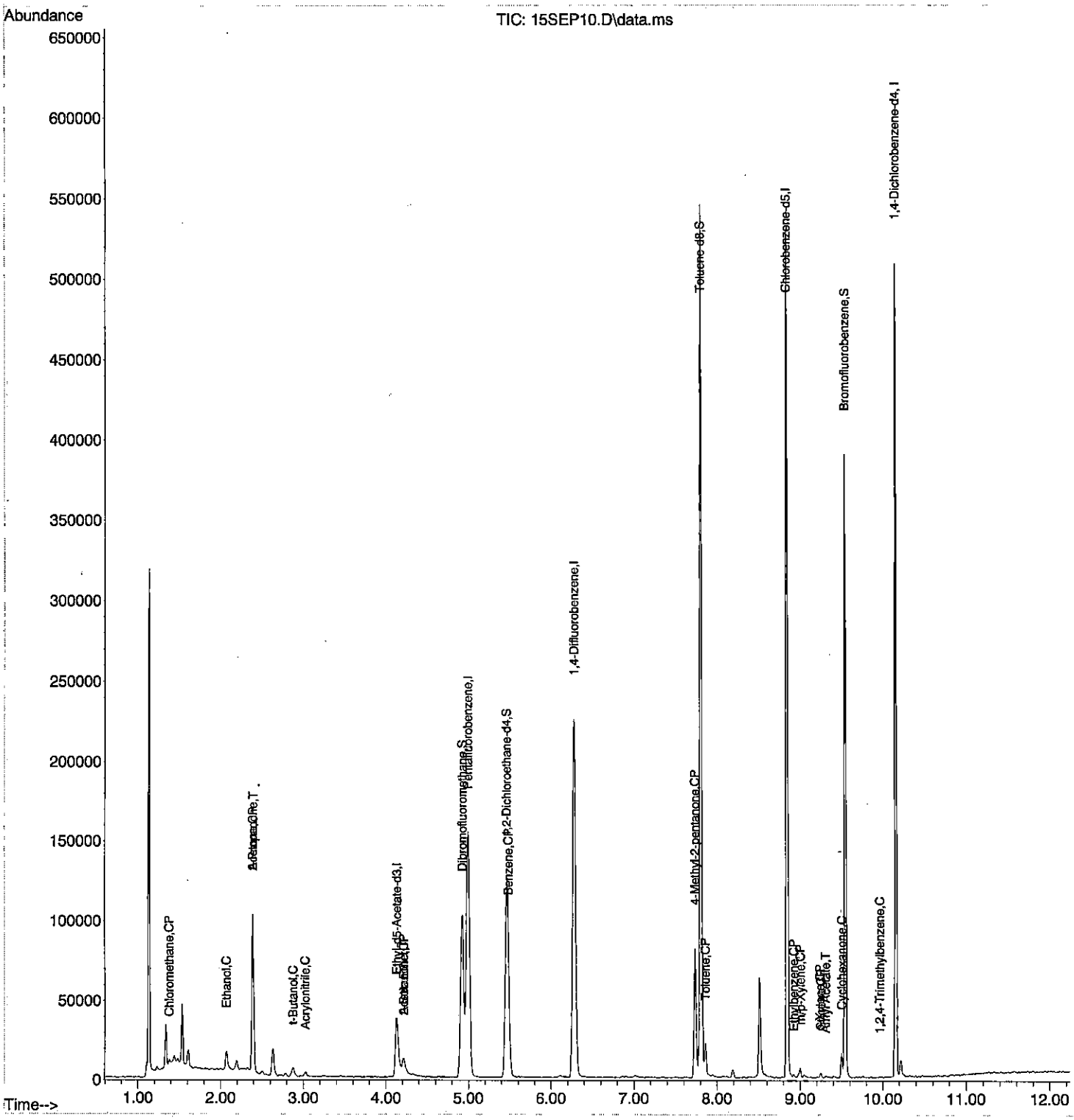
Quant Time: Sep 16 10:38:46 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

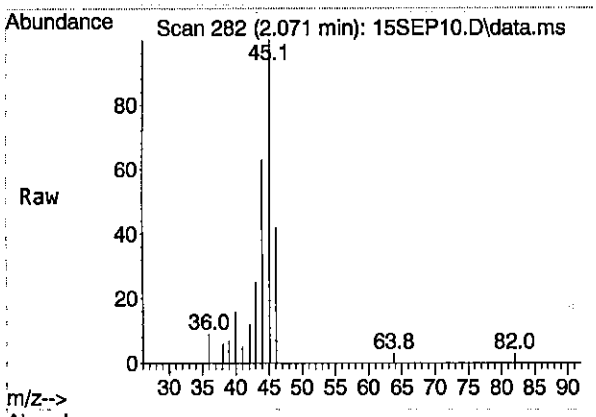
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 147421 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 237912 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 236298 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 102881 | 20.00 | ug/L | # 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 68744 | 20.00 | ug/L | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) Dibromofluoromethane | 4.923 | 111 | 89278 | 21.25 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 106.25% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 112307 | 21.83 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 109.15% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 314170 | 19.41 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 97.05% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 106865 | 18.45 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 92.25% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Chloromethane | 1.379 | 50 | 1418 | 0.23 | ug/L | 90 |
| 5) Bromomethane | 1.688 | 96 | 299 | Below Cal | # | 58 |
| 6) Chloroethane | 1.767 | 64 | 656 | Below Cal | # | 45 |
| 8) Ethanol | 2.071 | 45 | 11523 | 33.62 | ug/L | 99 |
| 14) Acetone | 2.390 | 43 | 101923 | 38.61 | ug/L | 100 |
| 21) Methylene chloride | 2.784 | 49 | 792 | Below Cal | | 94 |
| 23) t-Butanol | 2.878 | 59 | 5146 | 4.82 | ug/L # | 94 |
| 24) Acrylonitrile | 3.025 | 53 | 2526 | 0.91 | ug/L | 93 |
| 33) 2-Butanone | 4.215 | 43 | 20820 | 6.77 | ug/L | 91 |
| 49) Benzene | 5.479 | 78 | 28118 | 2.00 | ug/L | 98 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 51597 | 8.60 | ug/L | 97 |
| 67) Toluene | 7.859 | 91 | 11231 | 0.73 | ug/L | 98 |
| 80) Ethylbenzene | 8.923 | 91 | 1416 | 0.31 | ug/L | 97 |
| 81) m/p-Xylene | 9.002 | 91 | 3127 | 0.79 | ug/L | 98 |
| 82) Styrene | 9.248 | 104 | 1165 | 0.26 | ug/L | 77 |
| 83) o-Xylene | 9.238 | 91 | 483 | 0.25 | ug/L | 99 |
| 84) Cyclohexanone | 9.500 | 55 | 6411 | 20.19 | ug/L | 91 |
| 96) 1,2,4-Trimethylbenzene | 9.956 | 105 | 118m | 0.37 | ug/L | |
| 117) 2-Propanone | 2.390 | 43 | 101923 | 37.85 | ug/L | 100 |
| 118) Acetic Ether | 4.215 | 43 | 21934 | 3.78 | ug/L # | 67 |
| 120) Amyl Acetate | 9.306 | 43 | 811 | 0.43 | ug/L # | 48 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP10.D
Acq On : 15 Sep 2018 04:07 pm
Operator : LNS
Sample : 1809940-02B DF50
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 10:38:46 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

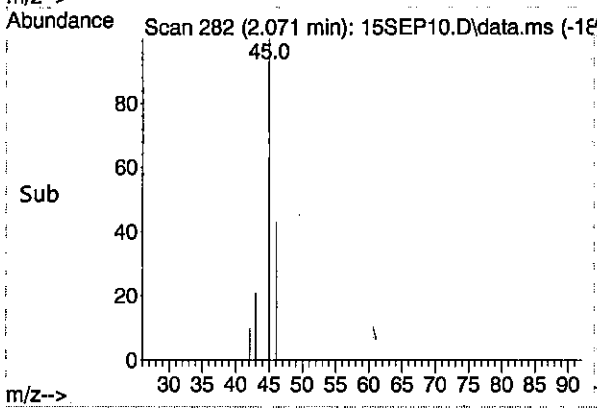


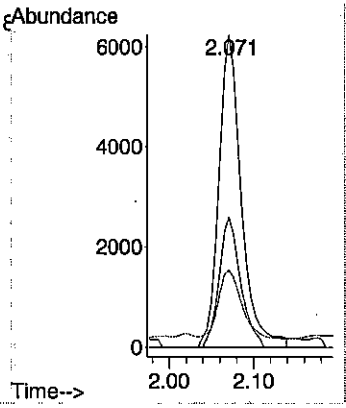


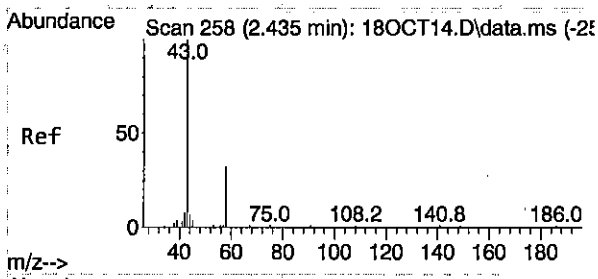

#8
Ethanol
Concen: 33.62 ug/L
RT: 2.071 min Scan# 282
Delta R.T. -0.005 min
Lab File: 15SEP10.D
Acq: 15 Sep 2018 04:07 pm

Tgt Ion: 45 Resp: 11523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.9 | 31.8 | 47.6 |
| 43 | 21.8 | 18.2 | 27.2 |



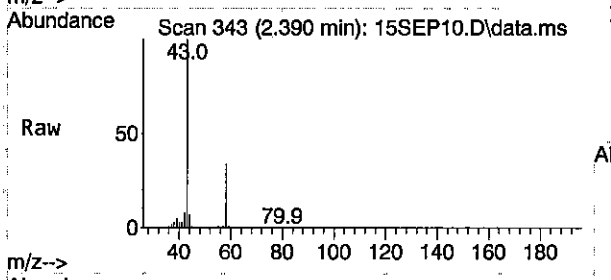



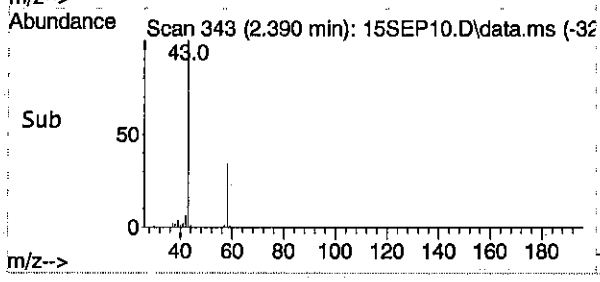



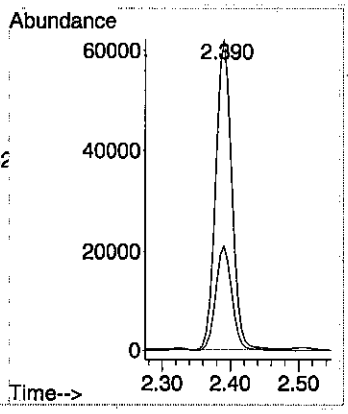

#14
Acetone
Concen: 38.61 ug/L
RT: 2.390 min Scan# 343
Delta R.T. -0.001 min
Lab File: 15SEP10.D
Acq: 15 Sep 2018 04:07 pm

Tgt Ion: 43 Resp: 101923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.2 | 14.0 | 54.0 |



# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP13.D
Acq On : 15 Sep 2018 04:57 pm
Operator : LNS
Sample : 1809940-03B DF2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 10:38:55 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 150884 | 20.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 244992 | 20.00 | ug/L | | 0.00 |
| 64) Chlorobenzene-d5 | 8.840 | 117 | 252887 | 20.00 | ug/L | | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 113615 | 20.00 | ug/L | # | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.126 | 46 | 71897 | 20.00 | ug/L | # | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 44) Dibromofluoromethane | 4.923 | 111 | 91229 | 21.09 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 105.45% | | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 114126 | 21.54 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 107.70% | | | | |
| 66) Toluene-d8 | 7.801 | 98 | 361537 | 20.87 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 104.35% | | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 124940 | 20.16 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 100.80% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 3) Chloromethane | 1.379 | 50 | 11578 | 1.81 | ug/L | | 97 |
| 5) Bromomethane | 1.693 | 96 | 600 | 0.20 | ug/L | # | 79 |
| 8) Ethanol | 2.071 | 45 | 42727 | 140.11 | ug/L | | 97 |
| 10) Acrolein | 2.275 | 56 | 856 | Below Cal | | # | 1 |
| 13) Methyl iodide | 2.485 | 142 | 98 | Below Cal | | # | 42 |
| 14) Acetone | 2.391 | 43 | 545530 | 205.03 | ug/L | | 97 |
| 21) Methylene chloride | 2.789 | 49 | 637 | Below Cal | | | 98 |
| 23) t-Butanol | 2.883 | 59 | 78336 | 71.73 | ug/L | | 96 |
| 24) Acrylonitrile | 3.020 | 53 | 19907 | 7.01 | ug/L | | 98 |
| 33) 2-Butanone | 4.205 | 43 | 165642 | 45.69 | ug/L | | 94 |
| 39) Methacrylonitrile | 4.509 | 41 | 1119m | 0.18 | ug/L | | |
| 40) Chloroform | 4.687 | 83 | 1991 | 0.32 | ug/L | | 94 |
| 49) Benzene | 5.474 | 78 | 146442 | 10.10 | ug/L | | 99 |
| 51) Isobutyl Alcohol | 5.762 | 43 | 401 | Below Cal | | # | 1 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 635962 | 96.98 | ug/L | | 100 |
| 67) Toluene | 7.859 | 91 | 122633 | 7.47 | ug/L | | 99 |
| 78) Chlorobenzene | 8.861 | 112 | 1612 | 0.16 | ug/L | # | 1 |
| 80) Ethylbenzene | 8.923 | 91 | 27031 | 1.84 | ug/L | | 96 |
| 81) m/p-Xylene | 9.002 | 91 | 52071 | 4.50 | ug/L | | 97 |
| 82) Styrene | 9.249 | 104 | 22449 | 2.76 | ug/L | | 92 |
| 83) o-Xylene | 9.233 | 91 | 10623 | 1.04 | ug/L | | 94 |
| 84) Cyclohexanone | 9.500 | 55 | 62439 | 176.50 | ug/L | | 97 |
| 86) Isopropylbenzene | 9.443 | 105 | 2671 | 0.48 | ug/L | | 94 |
| 91) n-Propylbenzene | 9.668 | 91 | 3203m | 0.42 | ug/L | | |
| 92) 2-Chlorotoluene | 9.726 | 91 | 1673 | 0.16 | ug/L | | 93 |
| 94) 1,3,5-Trimethylbenzene | 9.762 | 105 | 1418 | 0.44 | ug/L | | 97 |
| 101) p-Isopropyltoluene | 10.119 | 119 | 11373 | 1.36 | ug/L | | 90 |
| 103) 1,2,3-Trimethylbenzene | 10.171 | 105 | 8927 | 0.91 | ug/L | | 99 |
| 112) Naphthalene | 11.267 | 128 | 25740 | 2.45 | ug/L | | 99 |
| 114) 2-Methylnaphthalene | 11.917 | 142 | 2889 | 0.84 | ug/L | | 95 |
| 115) 1-Methylnaphthalene | 12.038 | 142 | 3422 | 0.95 | ug/L | | 98 |
| 117) 2-Propanone | 2.391 | 43 | 545530 | 196.33 | ug/L | | 97 |
| 118) Acetic Ether | 4.205 | 43 | 168705 | 27.76 | ug/L | # | 68 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP13.D
Acq On : 15 Sep 2018 04:57 pm
Operator : LNS
Sample : 1809940-03B DF2
Misc :
ALS Vial : 12 Sample Multiplier: 1

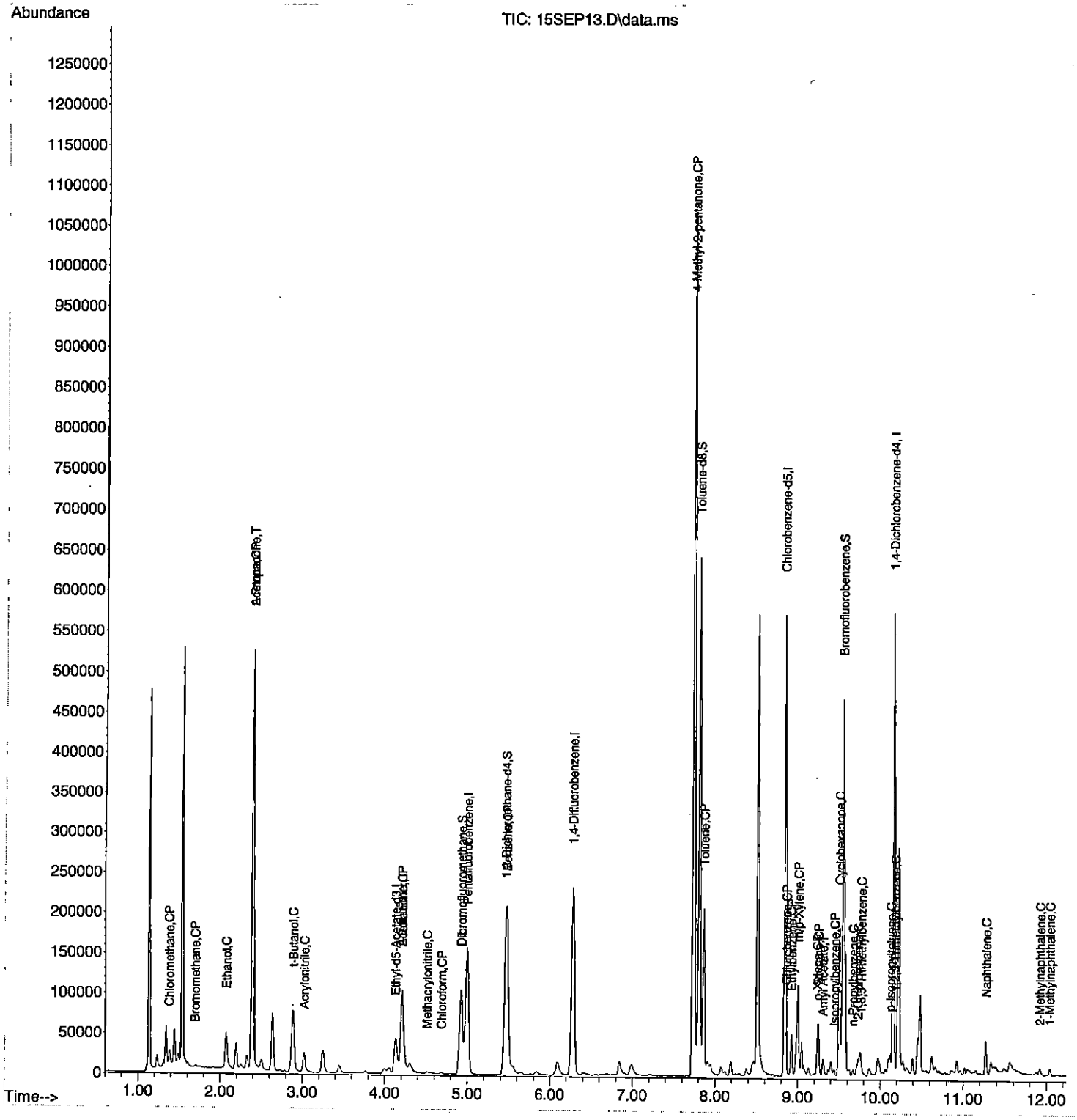
Quant Time: Sep 16 10:38:55 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

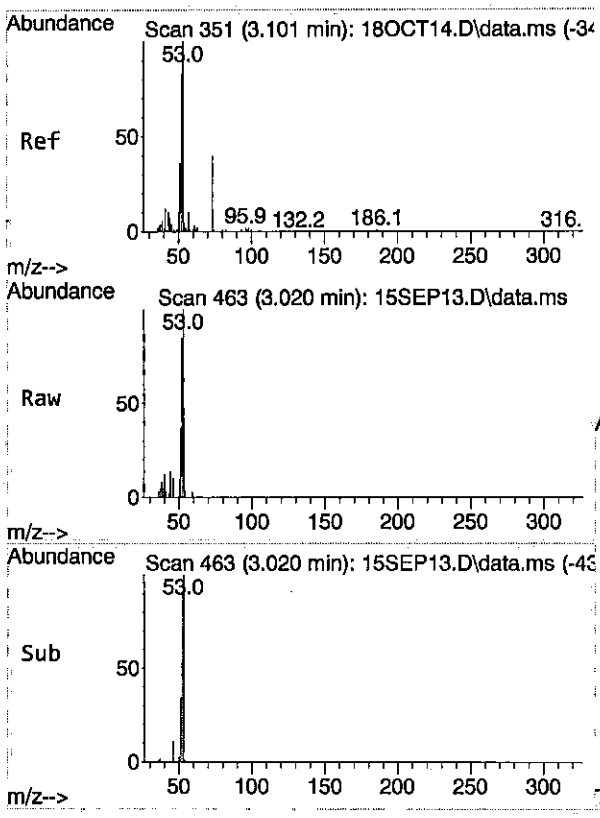
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 120) Amyl Acetate | 9.301 | 43 | 7992 | 1.63 ug/L # | 46 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP13.D
Acq On : 15 Sep 2018 04:57 pm
Operator : LNS
Sample : 1809940-03B DF2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 10:38:55 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WG00913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

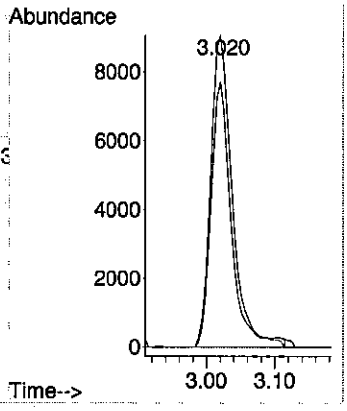


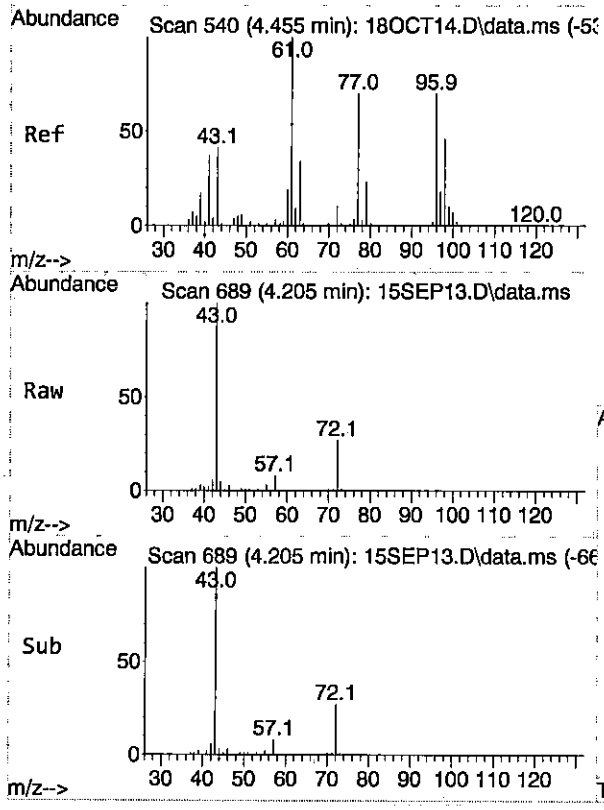



#24
Acrylonitrile
Concen: 7.01 ug/L
RT: 3.020 min Scan# 463
Delta R.T. 0.006 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 53 Resp: 19907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.9 | 58.2 | 98.2 |

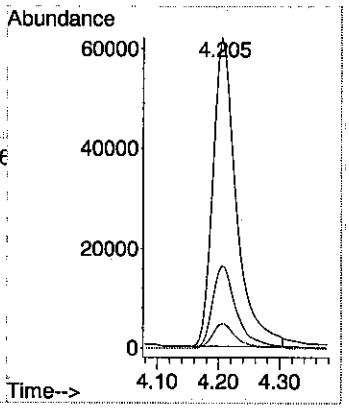


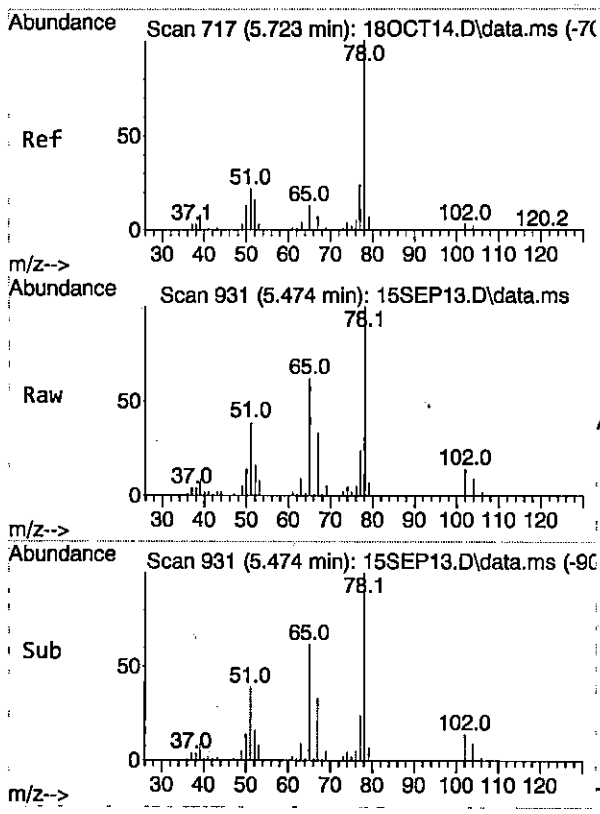




#33
2-Butanone
Concen: 45.69 ug/L
RT: 4.205 min Scan# 689
Delta R.T. -0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 43 Resp: 165642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.5 | 11.4 | 51.4 |
| 57 | 8.3 | 0.0 | 29.1 |

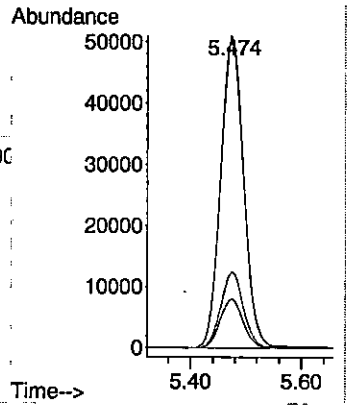


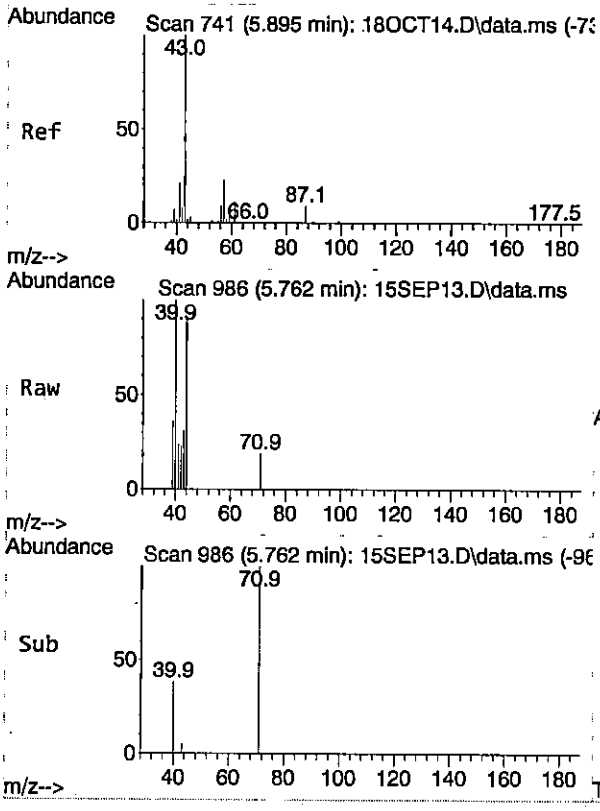



#49
Benzene
Concen: 10.10 ug/L
RT: 5.474 min Scan# 931
Delta R.T. 0.001 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 78 Resp: 146442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 16.0 | 0.0 | 35.6 |
| 77 | 24.0 | 3.7 | 43.7 |

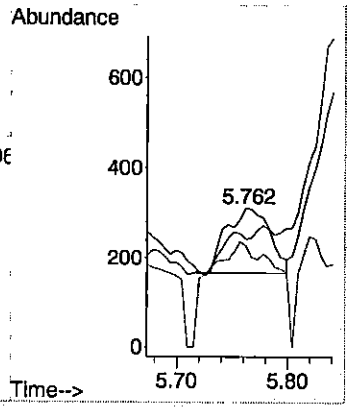


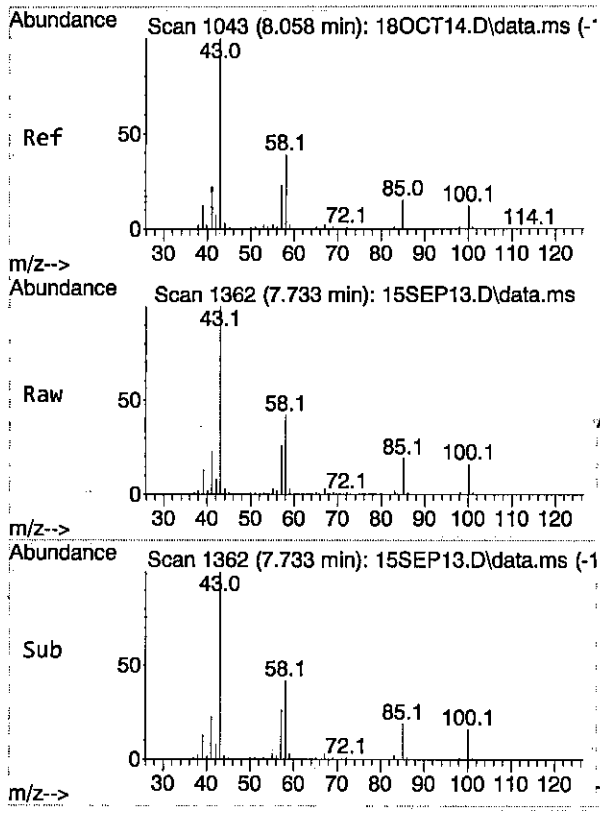




#51
Isobutyl Alcohol
Concen: Below Cal
RT: 5.762 min Scan# 986
Delta R.T. 0.016 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 43 Resp: 401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 41 | 37.2 | 38.9 | 58.3# |
| 42 | 241.9 | 20.4 | 30.6# |

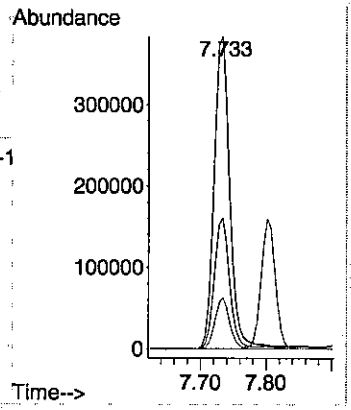


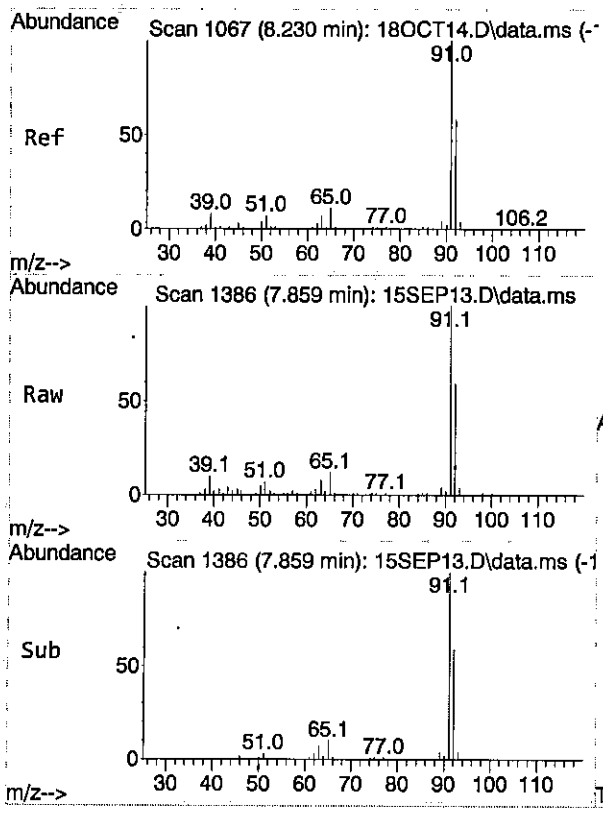



#65
4-Methyl-2-pentanone
Concen: 96.98 ug/L
RT: 7.733 min Scan# 1362
Delta R.T. 0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 43 Resp: 635962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.0 | 21.2 | 61.2 |
| 100 | 15.4 | 0.0 | 35.2 |

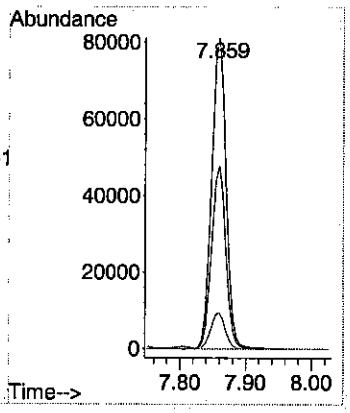


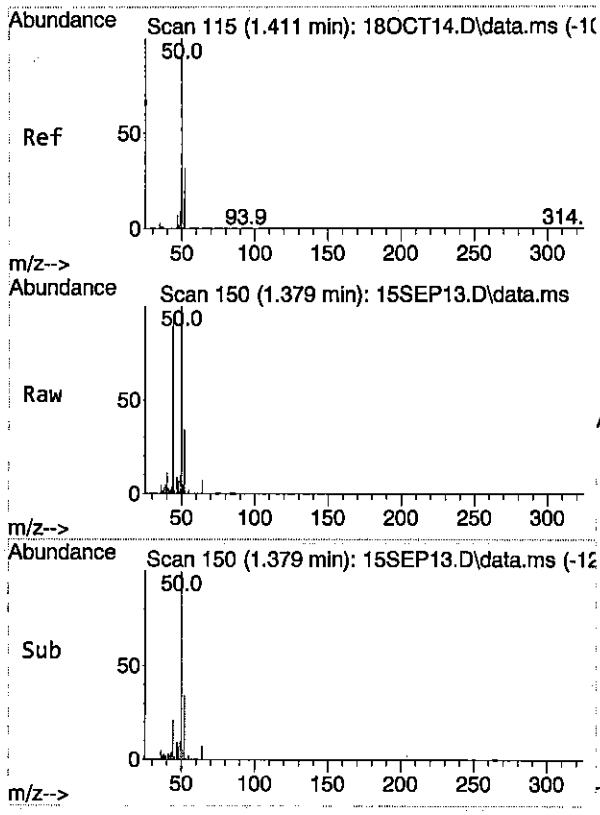




#67
Toluene
Concen: 7.47 ug/L
RT: 7.859 min Scan# 1386
Delta R.T. 0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 91 Resp: 122633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.0 | 38.5 | 78.5 |
| 65 | 11.7 | 0.0 | 31.7 |

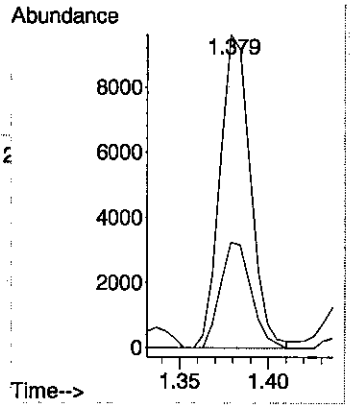


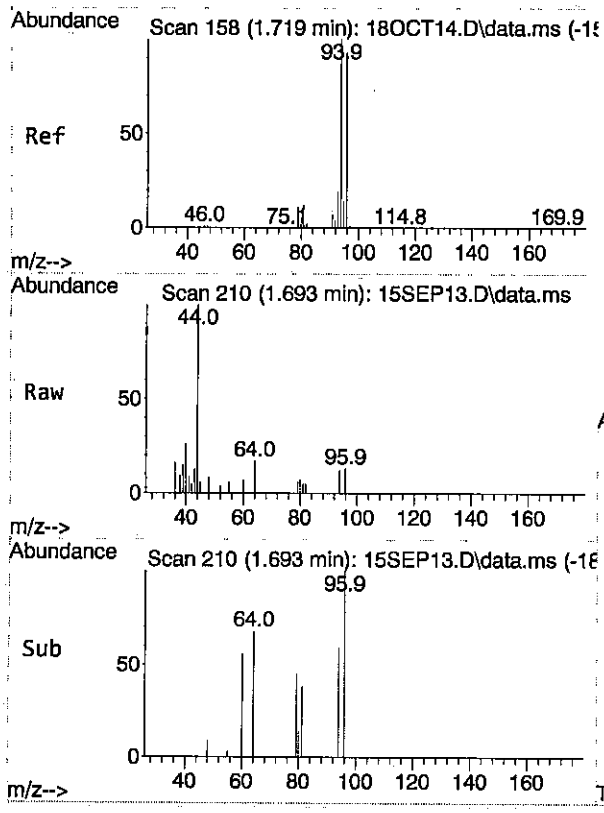



#3
Chloromethane
Concen: 1.81 ug/L
RT: 1.379 min Scan# 150
Delta R.T. -0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 50 Resp: 11578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.2 | 12.4 | 52.4 |

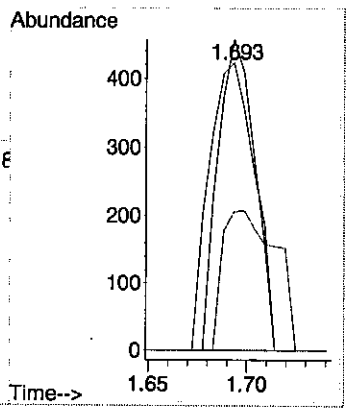


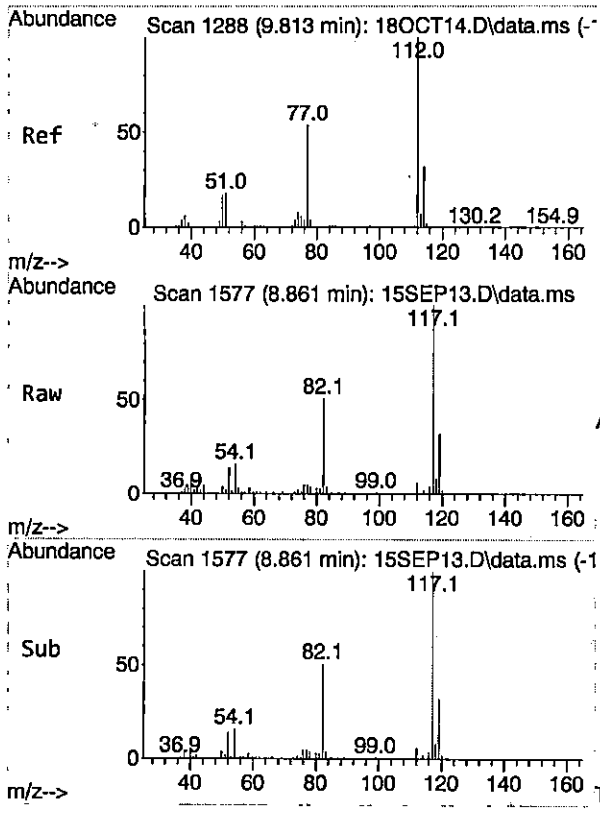




#5
Bromomethane
Concen: 0.20 ug/L
RT: 1.693 min Scan# 210
Delta R.T. 0.016 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 96 Resp: 600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 94 | 113.3 | 86.8 | 126.8 |
| 79 | 65.0 | 0.0 | 38.5# |

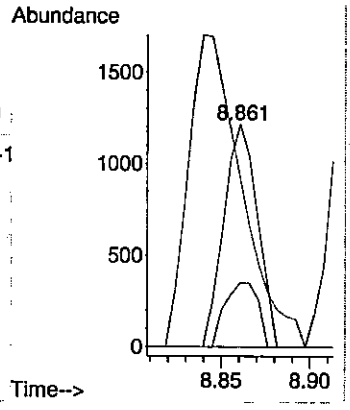


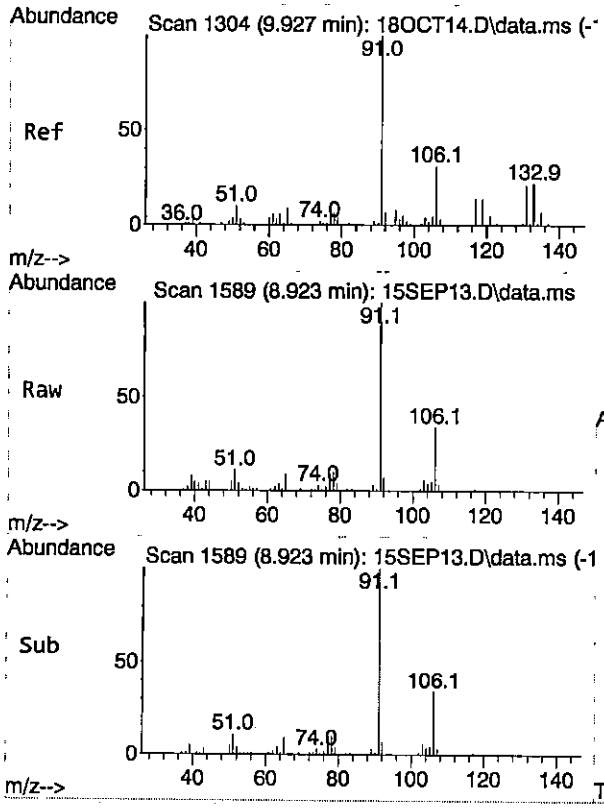



#78
Chlorobenzene
Concen: 0.16 ug/L
RT: 8.861 min Scan# 1577
Delta R.T. 0.001 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion:112 Resp: 1612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 28.3 | 12.1 | 52.1 |
| 77 | 220.2 | 41.3 | 81.3# |

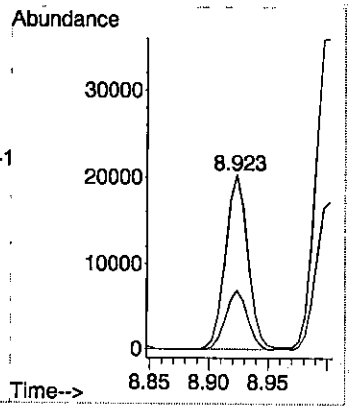


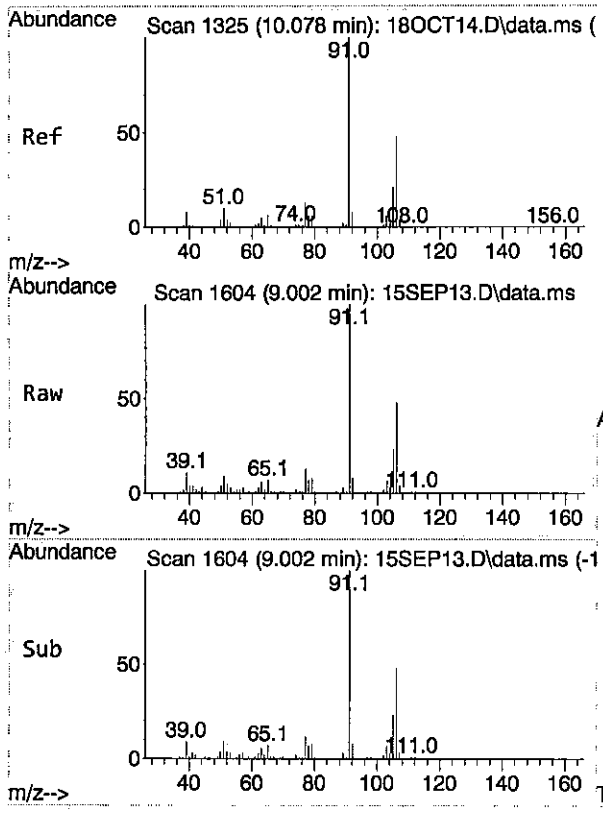




#80
Ethylbenzene
Concen: 1.84 ug/L
RT: 8.923 min Scan# 1589
Delta R.T. 0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 91 Resp: 27031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.6 | 10.6 | 50.6 |

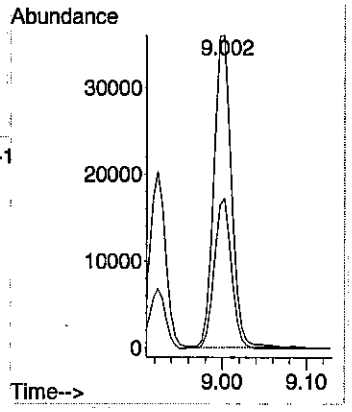


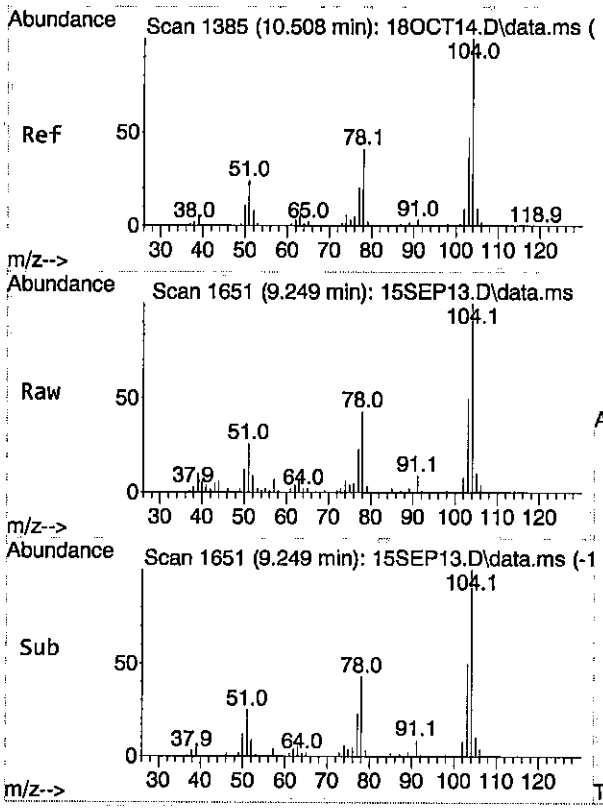



#81
m/p-Xylene
Concen: 4.50 ug/L
RT: 9.002 min Scan# 1604
Delta R.T. 0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 91 Resp: 52071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.6 | 28.4 | 68.4 |

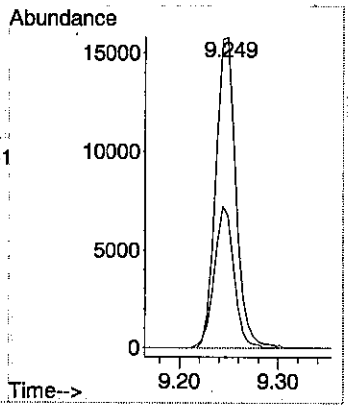


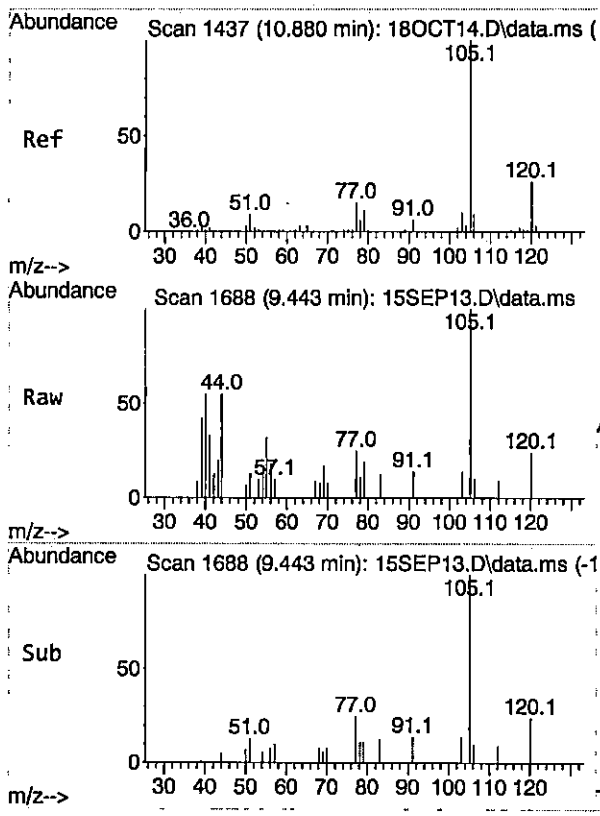




#82
Styrene
Concen: 2.76 ug/L
RT: 9.249 min Scan# 1651
Delta R.T. 0.006 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion:104 Resp: 22449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 44.8 | 30.4 | 70.4 |

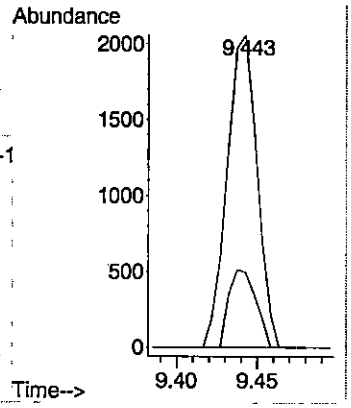


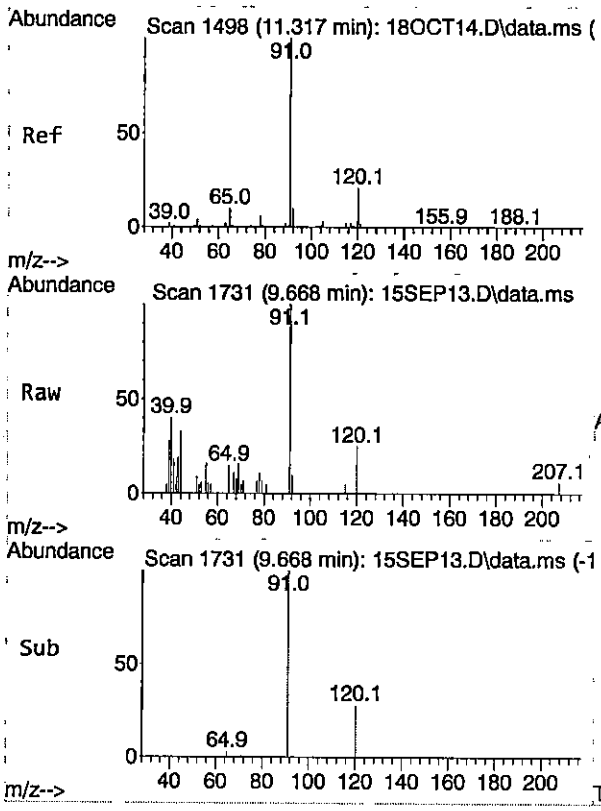



#86
Isopropylbenzene
Concen: 0.48 ug/L
RT: 9.443 min Scan# 1688
Delta R.T. 0.001 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion:105 Resp: 2671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 22.4 | 5.6 | 45.6 |

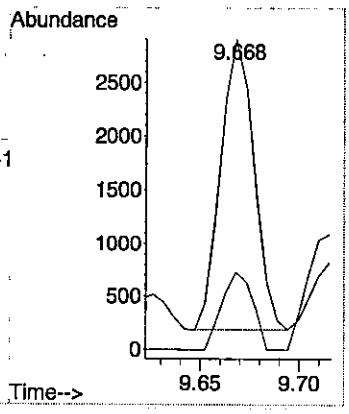


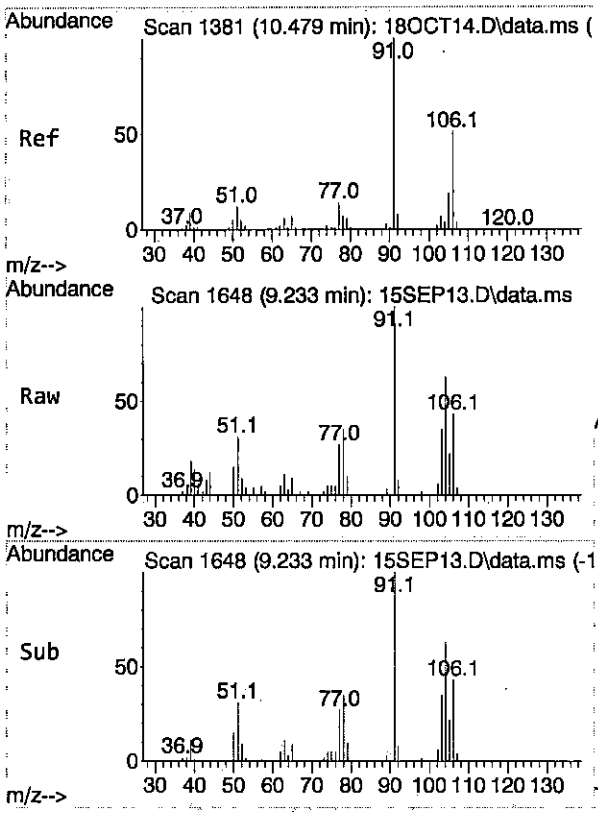




#91
n-Propylbenzene
Concen: 0.42 ug/L m
RT: 9.668 min Scan# 1731
Delta R.T. -0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 91 Resp: 3203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.5 | 1.7 | 41.7 |

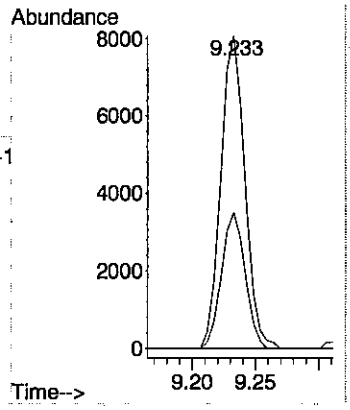


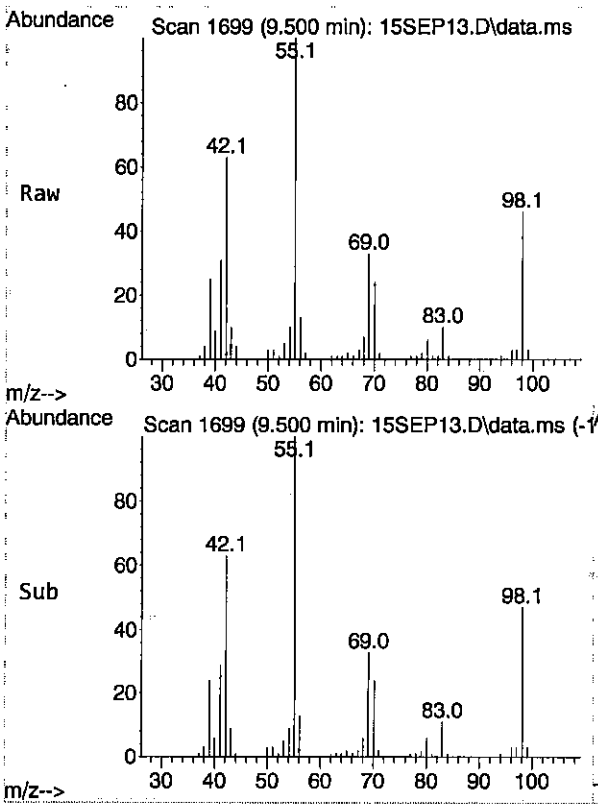



#83
o-Xylene
Concen: 1.04 ug/L
RT: 9.233 min Scan# 1648
Delta R.T. -0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 91 Resp: 10623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.9 | 27.0 | 67.0 |

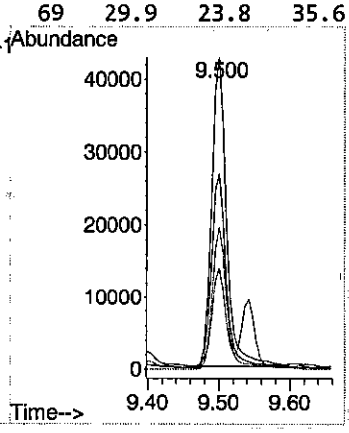



#84
Cyclohexanone
Concen: 176.50 ug/L
RT: 9.500 min Scan# 1699
Delta R.T. 0.000 min
Lab File: 15SEP13.D
Acq: 15 Sep 2018 04:57 pm

Tgt Ion: 55 Resp: 62439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 42 | 62.9 | 47.7 | 71.5 |
| 98 | 46.0 | 36.0 | 54.0 |
| 69 | 29.9 | 23.8 | 35.6 |



# Quantitation Report (QT Reviewed)

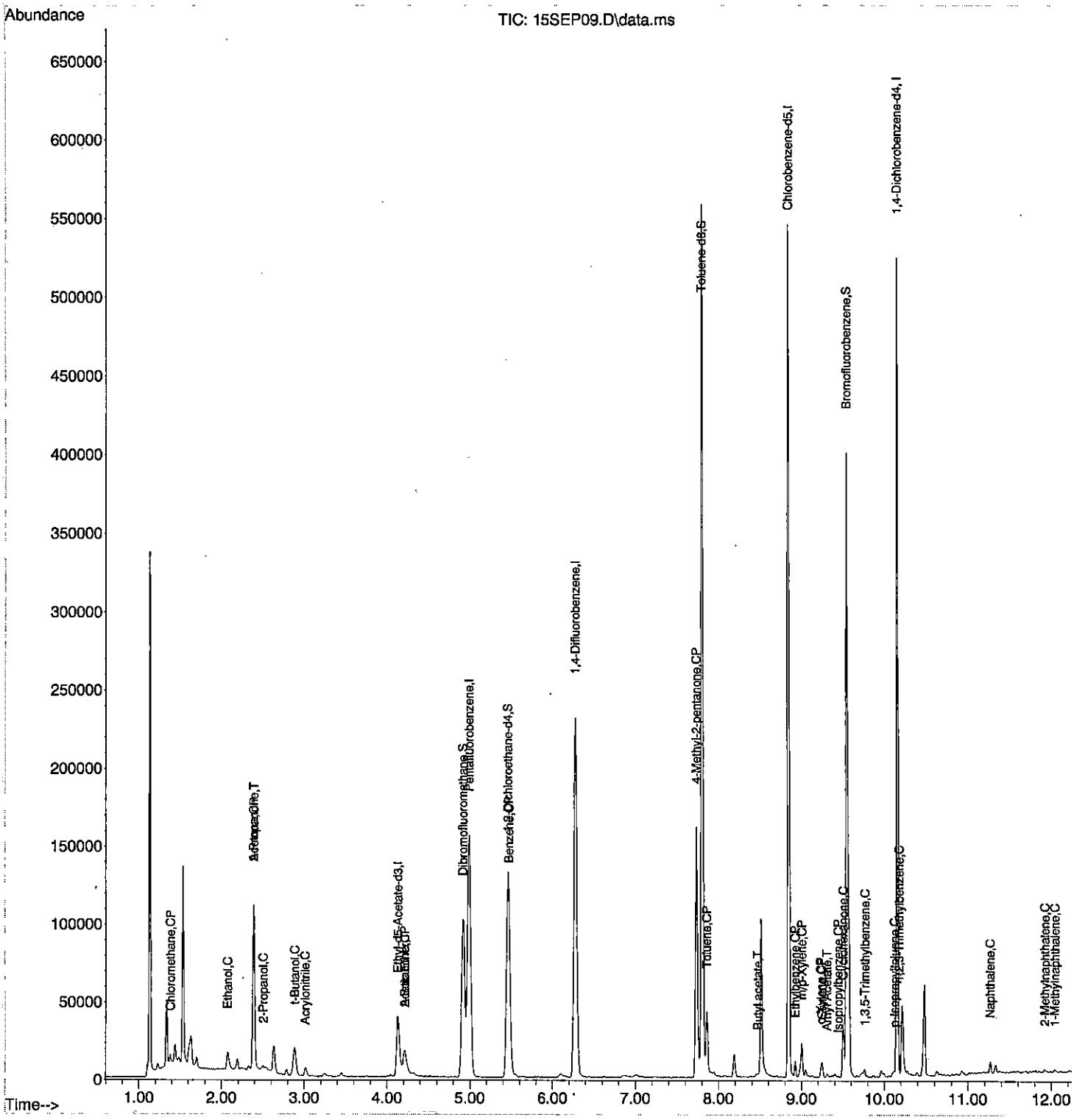
Data Path : E:\VMS10\10V180915\
Data File : 15SEP09.D
Acq On : 15 Sep 2018 03:51 pm
Operator : LNS
Sample : 1809940-03B DF10
Misc :
ALS Vial : 8 Sample Multiplier: 1

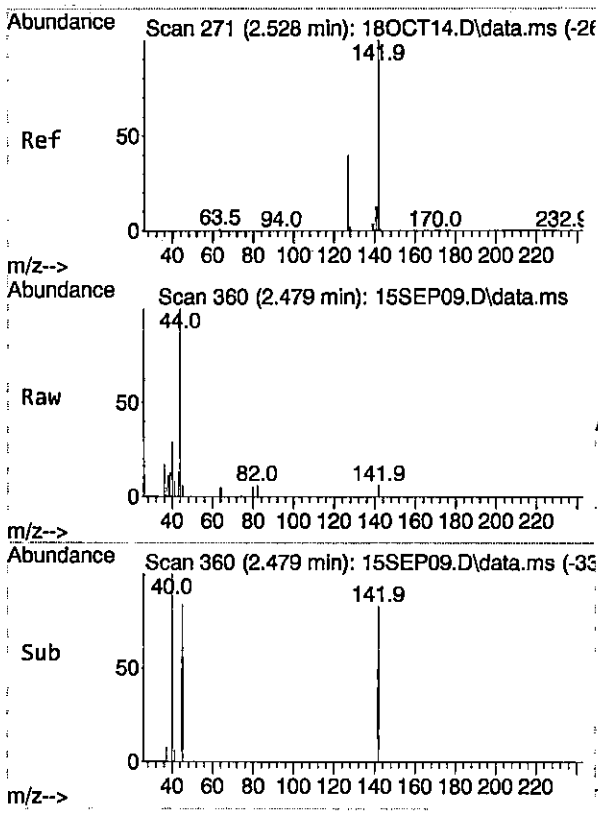
Quant Time: Sep 16 10:35:59 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 149941 | 20.00 ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.275 | 114 | 244818 | 20.00 ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 244517 | 20.00 ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 105369 | 20.00 ug/L | # 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 69743 | 20.00 ug/L | # 0.00 |
| System Monitoring Compounds | | | | | |
| 44) Dibromofluoromethane | 4.917 | 111 | 88028 | 20.36 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 101.80% | | |
| 47) 1,2-Dichloroethane-d4 | 5.457 | 65 | 113146 | 21.37 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 106.85% | | |
| 66) Toluene-d8 | 7.801 | 98 | 323819 | 19.34 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 96.70% | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 109857 | 18.33 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 91.65% | | |
| Target Compounds | | | | | Qvalue |
| 3) Chloromethane | 1.384 | 50 | 3365 | 0.53 ug/L | 93 |
| 6) Chloroethane | 1.756 | 64 | 331 | Below Cal # | 45 |
| 8) Ethanol | 2.076 | 45 | 12589 | 36.63 ug/L | 98 |
| 10) Acrolein | 2.275 | 56 | 187 | Below Cal # | 1 |
| 13) Methyl iodide | 2.479 | 142 | 113 | Below Cal # | 42 |
| 14) Acetone | 2.390 | 43 | 112385 | 41.92 ug/L | 96 |
| 15) 2-Propanol | 2.506 | 45 | 3487m | 4.87 ug/L | |
| 21) Methylene chloride | 2.784 | 49 | 1913 | Below Cal | 98 |
| 23) t-Butanol | 2.888 | 59 | 19469 | 17.94 ug/L # | 94 |
| 24) Acrylonitrile | 3.014 | 53 | 3728 | 1.32 ug/L | 95 |
| 33) 2-Butanone | 4.215 | 43 | 30204 | 9.22 ug/L | 94 |
| 39) Methacrylonitrile | 4.524 | 41 | 237 | Below Cal # | 33 |
| 49) Benzene | 5.473 | 78 | 33964 | 2.34 ug/L | 98 |
| 51) Isobutyl Alcohol | 5.788 | 43 | 148 | Below Cal # | 64 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 97527 | 15.54 ug/L | 98 |
| 67) Toluene | 7.859 | 91 | 22947 | 1.44 ug/L | 98 |
| 76) Butyl acetate | 8.472 | 43 | 929 | 0.36 ug/L # | 34 |
| 80) Ethylbenzene | 8.923 | 91 | 5476 | 0.56 ug/L | 98 |
| 81) m/p-Xylene | 9.002 | 91 | 10584 | 1.37 ug/L | 100 |
| 82) Styrene | 9.248 | 104 | 4029 | 0.60 ug/L | 85 |
| 83) o-Xylene | 9.232 | 91 | 2168 | 0.39 ug/L | 96 |
| 84) Cyclohexanone | 9.500 | 55 | 13340 | 39.70 ug/L | 93 |
| 86) Isopropylbenzene | 9.442 | 105 | 580 | 0.34 ug/L | 68 |
| 94) 1,3,5-Trimethylbenzene | 9.762 | 105 | 607 | 0.38 ug/L | 96 |
| 101) p-Isopropyltoluene | 10.119 | 119 | 2189 | 0.53 ug/L | 86 |
| 103) 1,2,3-Trimethylbenzene | 10.171 | 105 | 1724 | 0.36 ug/L | 97 |
| 112) Naphthalene | 11.267 | 128 | 4911 | 0.48 ug/L | 93 |
| 114) 2-Methylnaphthalene | 11.922 | 142 | 710 | 0.22 ug/L | 98 |
| 115) 1-Methylnaphthalene | 12.043 | 142 | 872 | 0.32 ug/L | 87 |
| 117) 2-Propanone | 2.390 | 43 | 112385 | 41.19 ug/L | 96 |
| 118) Acetic Ether | 4.215 | 43 | 31578 | 5.36 ug/L # | 67 |
| 120) Amyl Acetate | 9.306 | 43 | 1402 | 0.53 ug/L # | 42 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP09.D
Acq On : 15 Sep 2018 03:51 pm
Operator : LNS
Sample : 1809940-03B DF10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 10:35:59 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

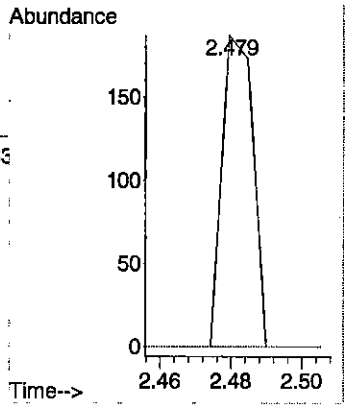


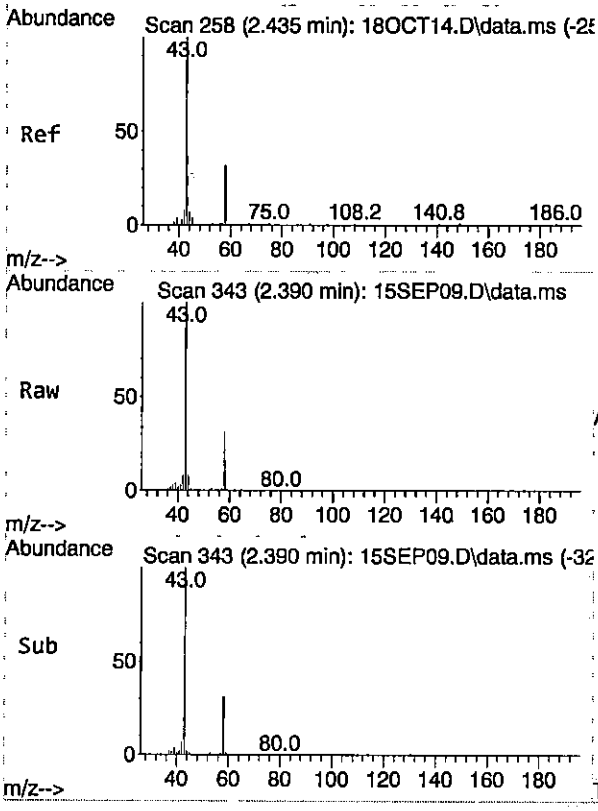



#13
Methyl iodide
Concen: Below Cal
RT: 2.479 min Scan# 360
Delta R.T. -0.006 min
Lab File: 15SEP09.D
Acq: 15 Sep 2018 03:51 pm

Tgt Ion:142 Resp: 113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 0.0 | 21.5 | 61.5# |
| 141 | 0.0 | 0.0 | 34.7 |

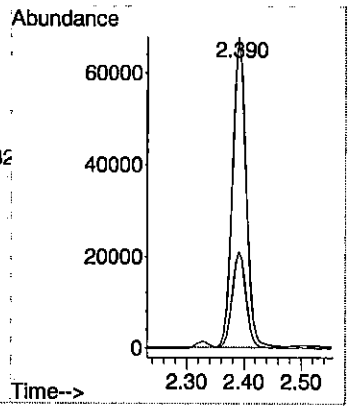



#14
Acetone
Concen: 41.92 ug/L
RT: 2.390 min Scan# 343
Delta R.T. -0.001 min
Lab File: 15SEP09.D
Acq: 15 Sep 2018 03:51 pm

Tgt Ion: 43 Resp: 112385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.8 | 14.0 | 54.0 |



# Response Factor Report 5977_VOA

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 10WGO0913.M
Title : 8260 Global Optimization Method
Last Update : Fri Sep 28 15:40:37 2018
Response Via : Initial Calibration

Calibration Files
1 =13SEP08.D 2 =13SEP09.D 3 =13SEP10.D 4 =13SEP11.D 5 =13SEP12.D 6 =13SEP13.D 7 =13SEP14.D 8 =13SEP15.D

| | | Compound | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | | | |
| 2) | CP | Dichlorodifluo... | 0.500 | 0.566 | 0.611 | 0.592 | 0.633 | 0.651 | 0.612 | 0.564 | 0.591 | 8.03# |
| 3) | CP | Chloromethane | | 1.021 | 0.873 | 0.748 | 0.806 | 0.859 | 0.823 | 0.790 | 0.846 | 10.40 |
| 4) | CP | Vinyl chloride | 0.544 | 0.544 | 0.564 | 0.527 | 0.585 | 0.593 | 0.565 | 0.538 | 0.557 | 4.19 |
| 5) | CP | Bromomethane | | 0.212 | 0.184 | 0.151 | 0.150 | 0.146 | 0.142 | | 0.164 | 17.02# |
| 6) | CP | Chloroethane | 0.680 | 0.563 | 0.411 | 0.380 | 0.336 | 0.341 | 0.319 | 0.300 | 0.416 | 32.43# |
| 7) | CP | Trichlorofluor... | 0.629 | 0.630 | 0.633 | 0.618 | 0.673 | 0.655 | 0.604 | 0.578 | 0.627 | 4.65# |
| 8) | C | Ethanol | 0.057 | 0.069 | 0.043 | 0.045 | 0.045 | 0.043 | 0.037 | 0.038 | 0.047# | 23.07# |
| 9) | C | Ethyl ether | 0.317 | 0.422 | 0.380 | 0.372 | 0.403 | 0.406 | 0.380 | 0.391 | 0.384 | 8.25# |
| 10) | C | Acrolein | | 0.186 | 0.145 | 0.123 | 0.109 | 0.112 | 0.120 | 0.137 | 0.133# | 20.10# |
| 11) | CP | 1,1-Dichloroet... | 0.549 | 0.685 | 0.656 | 0.600 | 0.669 | 0.687 | 0.631 | 0.637 | 0.639 | 7.34 |
| 12) | CP | 1,1,2-Trichlor... | | 0.302 | 0.303 | 0.284 | 0.315 | 0.311 | 0.289 | 0.289 | 0.299 | 3.99# |
| 13) | C | Methyl iodide | | 0.109 | 0.098 | 0.087 | 0.088 | 0.096 | 0.098 | 0.120 | 0.099# | 11.62# |
| 14) | CP | Acetone | | 0.758 | 0.464 | 0.412 | 0.409 | 0.388 | 0.345 | 0.346 | 0.446 | 32.20# |
| 15) | C | 2-Propanol | 0.114 | 0.088 | 0.099 | 0.087 | 0.092 | 0.097 | 0.092 | 0.095 | 0.095# | 8.86# |
| 16) | C | Chloroprene | 0.448 | 0.477 | 0.525 | 0.488 | 0.591 | 0.681 | 0.651 | 0.674 | 0.567 | 16.66# |
| 17) | CP | Carbon disulfide | 1.374 | 1.175 | 1.052 | 0.980 | 1.050 | 1.125 | 1.083 | 1.129 | 1.121 | 10.57# |
| 18) | C | Allyl chloride | 0.582 | 0.874 | 0.743 | 0.703 | 0.723 | 0.771 | 0.690 | 0.670 | 0.720 | 11.71# |
| 19) | CP | Methyl acetate | 0.909 | 1.089 | 0.755 | 0.698 | 0.730 | 0.810 | 0.742 | 0.759 | 0.811 | 15.92# |
| 20) | C | Acetonitrile | 0.582 | 0.874 | 0.743 | 0.703 | 0.723 | 0.771 | 0.690 | 0.670 | 0.720 | 11.71# |
| 21) | CP | Methylene chlo... | | 1.454 | 0.869 | 0.684 | 0.676 | 0.663 | 0.609 | 0.604 | 0.794 | 38.29# |
| 22) | CP | trans-1,2-Dich... | 0.590 | 0.623 | 0.620 | 0.597 | 0.646 | 0.681 | 0.648 | 0.654 | 0.632 | 4.82# |
| 23) | C | t-Butanol | | 0.184 | 0.139 | 0.133 | 0.145 | 0.145 | 0.128 | 0.139 | 0.145# | 12.78# |
| 24) | C | Acrylonitrile | 0.311 | 0.347 | 0.366 | 0.359 | 0.403 | 0.431 | 0.394 | 0.400 | 0.376 | 10.08# |
| 25) | CP | Methyl tert-bu... | 1.043 | 1.486 | 1.136 | 1.188 | 1.289 | 1.417 | 1.308 | 1.382 | 1.281 | 11.71# |
| 26) | T | Hexane | 0.345 | 0.393 | 0.376 | 0.352 | 0.414 | 0.444 | 0.421 | 0.446 | 0.399 | 9.79 |
| 27) | CP | 1,1-Dichloroet... | 0.827 | 0.894 | 0.860 | 0.825 | 0.897 | 0.911 | 0.856 | 0.869 | 0.867 | 3.66 |
| 28) | CP | Diisopropyl ether | | 1.424 | 1.149 | 1.179 | 1.256 | 1.456 | 1.359 | 1.410 | 1.319 | 9.39# |
| 29) | C | Vinyl acetate | | | 0.051 | 0.055 | 0.084 | 0.099 | 0.094 | 0.107 | 0.082# | 28.79# |
| 30) | CP | Ethyl tert but... | | 1.215 | 1.046 | 1.072 | 1.143 | 1.285 | 1.213 | 1.296 | 1.181 | 8.30# |
| 31) | C | 2,2-Dichloropr... | 0.526 | 0.574 | 0.503 | 0.457 | 0.527 | 0.559 | 0.536 | 0.555 | 0.530 | 6.96# |
| 32) | CP | cis-1,2-Dichlo... | 0.670 | 0.693 | 0.736 | 0.644 | 0.733 | 0.780 | 0.739 | 0.757 | 0.719 | 6.39# |
| 33) | CP | 2-Butanone | | | 0.306 | 0.339 | 0.378 | 0.511 | 0.473 | 0.487 | 0.416 | 20.65# |
| 34) | C | Ethyl Acetate | | 1.123 | 0.897 | 0.849 | 0.979 | 0.990 | 0.894 | 0.909 | 0.949 | 9.64# |
| 35) | C | Methyl acrylate | | 0.485 | 0.655 | 0.606 | 0.730 | 0.812 | 0.795 | 0.823 | 0.701 | 17.90# |
| 36) | C | Propionitrile | | | 0.094 | 0.098 | 0.103 | 0.089 | 0.070 | 0.064 | 0.086# | 18.28# |
| 37) | C | Bromochloromet... | 0.394 | 0.430 | 0.432 | 0.390 | 0.427 | 0.406 | 0.360 | 0.362 | 0.400 | 7.25# |
| 38) | C | Tetrahydrofuran | | 0.292 | 0.296 | 0.304 | 0.317 | 0.370 | 0.356 | 0.364 | 0.328 | 10.34 |
| 39) | C | Methacrylonitrile | | 0.589 | 0.605 | 0.359 | 0.639 | 0.513 | 0.493 | 0.513 | 0.530 | 17.62# |
| 40) | CP | Chloroform | 0.794 | 0.840 | 0.832 | 0.797 | 0.869 | 0.890 | 0.831 | 0.839 | 0.836 | 3.88 |
| 41) | CP | Cyclohexane | 1.523 | 1.184 | 0.807 | 0.647 | 0.681 | 0.711 | 0.672 | 0.702 | 0.866 | 36.68# |

Response Factor Report 5977_VOA

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 10WGO0913.M

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | | | |
| 43) | CP | 1,1,1-Trichlor... | 0.329 | 0.370 | 0.369 | 0.353 | 0.397 | 0.413 | 0.397 | 0.404 | 0.379 | 7.61# |
| 44) | S | Dibromofluorom... | 0.367 | 0.367 | 0.357 | 0.366 | 0.354 | 0.342 | 0.344 | 0.329 | 0.353 | 3.98 |
| 45) | CP | Carbon tetrach... | | 0.263 | 0.285 | 0.276 | 0.320 | 0.343 | 0.325 | 0.331 | 0.306 | 10.15# |
| 46) | C | 1,1-Dichloropr... | 0.332 | 0.392 | 0.327 | 0.315 | 0.369 | 0.402 | 0.383 | 0.388 | 0.364 | 9.31# |
| 47) | S | 1,2-Dichloroet... | 0.454 | 0.458 | 0.451 | 0.447 | 0.433 | 0.414 | 0.406 | 0.398 | 0.432 | 5.48 |
| 48) | CP | 1,2-Dichloroet... | 0.446 | 0.483 | 0.433 | 0.423 | 0.438 | 0.451 | 0.423 | 0.426 | 0.440 | 4.57# |
| 49) | CP | Benzene | 1.137 | 1.255 | 1.120 | 1.065 | 1.204 | 1.273 | 1.207 | 1.211 | 1.184 | 5.98# |
| 50) | CP | Tertiaryamylme... | | 0.734 | 0.548 | 0.585 | 0.647 | 0.759 | 0.726 | 0.764 | 0.680 | 12.84# |
| 51) | C | Isobutyl Alcohol | | 0.448 | 0.252 | 0.239 | 0.250 | 0.237 | 0.218 | 0.226 | 0.267 | 30.24# |
| 52) | C | Heptane | 0.164 | 0.173 | 0.187 | 0.165 | 0.185 | 0.208 | 0.203 | 0.211 | 0.187# | 10.04# |
| 53) | C | 1,4-Dioxane | 0.007 | 0.006 | 0.009 | 0.008 | 0.009 | 0.010 | 0.010 | 0.010 | 0.008# | 15.95# |
| 54) | CP | Methylcyclohexane | 0.254 | 0.296 | 0.320 | 0.297 | 0.356 | 0.404 | 0.389 | 0.405 | 0.340 | 16.69# |
| 55) | T | n-Butanol | | | | 0.007 | 0.015 | 0.019 | 0.019 | 0.022 | 0.016# | 36.27 |
| 56) | CP | Trichloroethene | 0.283 | 0.290 | 0.285 | 0.269 | 0.297 | 0.308 | 0.295 | 0.296 | 0.290 | 4.02# |
| 57) | CP | 1,2-Dichloropr... | 0.246 | 0.310 | 0.304 | 0.281 | 0.319 | 0.338 | 0.319 | 0.317 | 0.304 | 9.37 |
| 58) | C | Dibromomethane | 0.178 | 0.194 | 0.206 | 0.192 | 0.214 | 0.225 | 0.213 | 0.212 | 0.204 | 7.45# |
| 59) | C | Methyl methacr... | 0.276 | 0.287 | 0.287 | 0.268 | 0.328 | 0.391 | 0.370 | 0.373 | 0.323 | 15.32# |
| 60) | CP | Bromodichlorom... | 0.358 | 0.356 | 0.328 | 0.316 | 0.359 | 0.392 | 0.376 | 0.380 | 0.358 | 7.18# |
| 61) | C | 2-Chloroethyl ... | 0.067 | 0.104 | 0.087 | 0.063 | 0.083 | 0.097 | 0.092 | 0.097 | 0.086# | 17.06# |
| 62) | C | 2-Nitropropane | 0.124 | 0.158 | 0.098 | 0.080 | 0.106 | 0.124 | 0.123 | 0.124 | 0.117# | 19.61# |
| 63) | CP | cis-1,3-Dichlo... | 0.331 | 0.353 | 0.354 | 0.342 | 0.394 | 0.465 | 0.460 | 0.471 | 0.396 | 15.08# |
| 64) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | | | |
| 65) | CP | 4-Methyl-2-pen... | 0.356 | 0.468 | 0.389 | 0.395 | 0.459 | 0.559 | 0.500 | 0.524 | 0.456 | 15.65# |
| 66) | S | Toluene-d8 | 1.315 | 1.296 | 1.341 | 1.349 | 1.374 | 1.400 | 1.423 | 1.461 | 1.370 | 4.07 |
| 67) | CP | Toluene | | 1.250 | 1.224 | 1.136 | 1.296 | 1.414 | 1.349 | 1.423 | 1.299 | 8.05 |
| 68) | CP | trans-1,3-Dich... | 0.257 | 0.284 | 0.310 | 0.296 | 0.344 | 0.448 | 0.451 | 0.496 | 0.361 | 25.18# |
| 69) | T | Chloropicrin | | | | | | | | | 0.000# | -1.00 |
| 70) | C | Ethyl methacry... | | 0.297 | 0.314 | 0.328 | 0.390 | 0.484 | 0.482 | 0.503 | 0.400 | 22.31# |
| 71) | CP | 1,1,2-Trichlor... | 0.292 | 0.318 | 0.314 | 0.301 | 0.335 | 0.354 | 0.328 | 0.336 | 0.322 | 6.23# |
| 72) | CP | Tetrachloroethene | 0.301 | 0.283 | 0.298 | 0.287 | 0.326 | 0.333 | 0.310 | 0.324 | 0.308 | 6.03# |
| 73) | C | 1,3-Dichloropr... | | 0.540 | 0.529 | 0.506 | 0.559 | 0.603 | 0.559 | 0.581 | 0.554 | 5.83# |
| 74) | CP | 2-Hexanone | 0.210 | 0.341 | 0.294 | 0.310 | 0.368 | 0.423 | 0.374 | 0.409 | 0.341 | 20.35# |
| 75) | CP | Chlorodibromom... | | 0.236 | 0.240 | 0.234 | 0.281 | 0.337 | 0.328 | 0.343 | 0.285 | 17.49# |
| 76) | T | Butyl acetate | 0.447 | 0.543 | 0.413 | 0.453 | 0.564 | 0.677 | 0.620 | 0.658 | 0.547 | 18.48 |
| 77) | CP | 1,2-Dibromoethane | 0.278 | 0.316 | 0.290 | 0.282 | 0.326 | 0.317 | 0.251 | 0.246 | 0.288 | 10.45# |
| 78) | CP | Chlorobenzene | 0.736 | 0.790 | 0.763 | 0.732 | 0.832 | 0.873 | 0.829 | 0.852 | 0.801 | 6.68 |
| 79) | C | 1,1,1,2-Tetrac... | | 0.235 | 0.248 | 0.232 | 0.264 | 0.289 | 0.280 | 0.292 | 0.263 | 9.55# |
| 80) | CP | Ethylbenzene | | 1.108 | 1.098 | 1.057 | 1.245 | 1.449 | 1.405 | 1.488 | 1.264 | 14.42 |
| 81) | CP | m/p-Xylene | | 0.850 | 0.815 | 0.787 | 0.965 | 1.138 | 1.087 | 1.142 | 0.969 | 15.96# |
| 82) | CP | Styrene | | 0.573 | 0.561 | 0.579 | 0.727 | 0.890 | 0.845 | 0.886 | 0.723 | 21.04# |
| 83) | CP | o-Xylene | | 0.894 | 0.833 | 0.792 | 0.983 | 1.119 | 1.092 | 1.152 | 0.981 | 14.73# |
| 84) | C | Cyclohexanone | 0.012 | 0.026 | 0.025 | 0.025 | 0.027 | 0.028 | 0.026 | 0.029 | 0.025# | 21.15# |
| 85) | CP | Bromoform | 0.136 | 0.184 | 0.162 | 0.159 | 0.182 | 0.214 | 0.206 | 0.218 | 0.183 | 15.96 |
| 86) | CP | Isopropylbenzene | | 0.912 | 0.930 | 0.902 | 1.126 | 1.335 | 1.267 | 1.342 | 1.116 | 18.05# |
| 87) | S | Bromofluoroben... | 0.449 | 0.453 | 0.485 | 0.498 | 0.513 | 0.513 | 0.507 | 0.504 | 0.490 | 5.30 |
| 88) | C | Bromobenzene | 0.786 | 0.584 | 0.733 | 0.718 | 0.799 | 0.847 | 0.777 | 0.809 | 0.757 | 10.69# |
| 89) | C | 1,2,3-Trichlor... | 0.153 | 0.179 | 0.176 | 0.154 | 0.188 | 0.177 | 0.155 | 0.160 | 0.168# | 8.15# |
| 90) | C | trans-1,4-Dich... | 0.130 | 0.123 | 0.128 | 0.129 | 0.144 | 0.164 | 0.145 | 0.157 | 0.140# | 10.81# |
| 91) | C | n-Propylbenzene | 1.027 | 1.137 | 1.111 | 1.120 | 1.381 | 1.611 | 1.523 | 1.603 | 1.314 | 18.49# |
| 92) | C | 2-Chlorotoluene | 0.744 | 0.784 | 0.722 | 0.724 | 0.879 | 0.973 | 0.899 | 0.933 | 0.832 | 12.08# |
| 93) | C | 4-Chlorotoluene | 0.908 | 0.857 | 0.814 | 0.833 | 0.993 | 1.108 | 1.035 | 1.070 | 0.952 | 11.96# |

# Response Factor Report 5977_VOA

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 10WGO0913.M

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94) | C | 1,3,5-Trimethy... | | 0.688 | 0.725 | 0.719 | 0.917 | 1.056 | 1.007 | 1.061 | 0.882 | 18.99# |
| 95) | C | tert-Butylbenzene | 0.403 | 0.405 | 0.436 | 0.490 | 0.525 | 0.597 | 0.579 | 0.616 | 0.506 | 17.01# |
| 96) | C | 1,2,4-Trimethy... | | 0.707 | 0.757 | 0.754 | 0.929 | 1.112 | 1.057 | 1.091 | 0.915 | 19.16# |
| 97) | C | sec-Butylbenzene | | 0.834 | 0.833 | 0.821 | 1.046 | 1.215 | 1.163 | 1.229 | 1.020 | 18.45# |
| 98) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 99) | CP | 1,1,2,2-Tetrac... | 1.188 | 1.189 | 1.170 | 1.067 | 1.154 | 1.141 | 1.060 | 1.090 | 1.132 | 4.67# |
| 100) | CP | 1,3-Dichlorobe... | 1.179 | 1.191 | 1.084 | 1.077 | 1.177 | 1.258 | 1.227 | 1.244 | 1.179 | 5.76# |
| 101) | C | p-Isopropyltol... | | 1.463 | 1.441 | 1.407 | 1.761 | 2.094 | 2.115 | 2.179 | 1.780 | 19.52# |
| 102) | CP | 1,4-Dichlorobe... | 1.440 | 1.278 | 1.161 | 1.103 | 1.197 | 1.272 | 1.223 | 1.227 | 1.238 | 8.07# |
| 103) | C | 1,2,3-Trimethy... | 1.569 | 1.767 | 1.656 | 1.736 | 2.035 | 2.258 | 2.233 | 2.266 | 1.940 | 14.99# |
| 104) | C | Benzyl chloride | 0.647 | 0.625 | 0.677 | 0.599 | 0.745 | 1.003 | 1.063 | 1.212 | 0.821 | 28.70# |
| 105) | CP | 1,2-Dichlorobe... | 1.268 | 1.058 | 1.095 | 1.060 | 1.172 | 1.227 | 1.176 | 1.201 | 1.157 | 6.75# |
| 106) | T | n-Butylbenzene | | 1.312 | 1.326 | 1.247 | 1.535 | 1.787 | 1.806 | 1.892 | 1.558 | 17.33 |
| 107) | C | Hexachloroethane | 0.228 | 0.236 | 0.281 | 0.233 | 0.279 | 0.322 | 0.333 | 0.348 | 0.283 | 16.92# |
| 108) | CP | 1,2-Dibromo-3-... | 0.202 | 0.192 | 0.201 | 0.203 | 0.229 | 0.258 | 0.265 | 0.296 | 0.231 | 16.55# |
| 109) | C | 1,3,5-Trichlor... | 0.730 | 0.671 | 0.623 | 0.603 | 0.677 | 0.737 | 0.736 | 0.777 | 0.694 | 8.79# |
| 110) | CP | 1,2,4-Trichlor... | | 0.572 | 0.552 | 0.564 | 0.603 | 0.701 | 0.723 | 0.777 | 0.642 | 14.06# |
| 111) | C | Hexachlorobuta... | 0.275 | 0.238 | 0.242 | 0.205 | 0.235 | 0.257 | 0.256 | 0.268 | 0.247 | 8.94# |
| 112) | C | Naphthalene | 2.064 | 1.794 | 1.697 | 1.731 | 2.039 | 2.704 | 2.890 | 3.172 | 2.261 | 25.50# |
| 113) | C | 1,2,3-Trichlor... | | 0.594 | 0.557 | 0.539 | 0.627 | 0.731 | 0.757 | 0.795 | 0.657 | 15.68# |
| 114) | C | 2-Methylnaphth... | 0.690 | 0.521 | 0.535 | 0.572 | 0.758 | 1.157 | 1.338 | 1.546 | 0.890 | 45.02# |
| 115) | C | 1-Methylnaphth... | 0.573 | 0.582 | 0.592 | 0.619 | 0.795 | 1.250 | 1.383 | 1.543 | 0.917 | 44.37# |
| 116) | I | Ethyl-d5-Acetate-d3 | ----------ISTD---------- | | | | | | | | | |
| 117) | T | 2-Propanone | 1.701 | 1.719 | 1.042 | 0.918 | 0.910 | 0.848 | 0.749 | 0.759 | 1.081 | 36.96 |
| 118) | T | Acetic Ether | 0.666 | 1.858 | 1.556 | 1.537 | 1.920 | 2.097 | 1.898 | 1.991 | 1.690 | 27.12 |
| 119) | T | Isopropyl Acetate | | 0.212 | 0.357 | 0.344 | 0.425 | 0.528 | 0.494 | 0.528 | 0.413 | 28.22 |
| 120) | T | Amyl Acetate | 0.845 | 1.389 | 1.043 | 1.170 | 1.371 | 1.744 | 1.575 | 1.731 | 1.358 | 23.82 |

(#) = Out of Range

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 10WGO0913.M
Title : 8260 Global Optimization Method
Last Update : Fri Sep 28 15:40:37 2018
Response Via : Initial Calibration

Calibration Files
1 =13SEP08 2 =13SEP09 3 =13SEP10 4 =13SEP11 5 =13SEP12 6 =13SEP13 7 =13SEP14
8 =13SEP15

| | | Compound | Fit | Constant | Linear | Quad | RSD/Cf |
|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | | ----------ISTD---------- | | | |
| 5) | CP | Bromomethane | Lin | 0.0025 | 0.1425 | ----- | 0.9995 |
| 6) | CP | Chloroethane | Lin | 0.0082 | 0.3127 | ----- | 0.9977 |
| 8) | C | Ethanol | Lin | 0.0134 | 0.0385 | ----- | 0.9957 |
| 10) | C | Acrolein | Quad | 0.0175 | 0.0945 | 0.0016 | 0.9992 |
| 13) | C | Methyl iodide | Quad | 0.0014 | 0.0761 | 0.0081 | 0.9979 |
| 14) | CP | Acetone | Lin | 0.0129 | 0.3514 | ----- | 0.9976 |
| 16) | C | Chloroprene | Lin | -0.0077 | 0.6642 | ----- | 0.9982 |
| 19) | CP | Methyl acetate | Lin | 0.0042 | 0.7584 | ----- | 0.9985 |
| 21) | CP | Methylene chloride | Lin | 0.0252 | 0.6096 | ----- | 0.9988 |
| 29) | C | Vinyl acetate | Quad | -0.0046 | 0.0893 | 0.0034 | 0.9976 |
| 33) | CP | 2-Butanone | Lin | -0.0252 | 0.4915 | ----- | 0.9977 |
| 35) | C | Methyl acrylate | Lin | -0.0151 | 0.8112 | ----- | 0.9989 |
| 36) | C | Propionitrile | Quad | 0.0026 | 0.0963 | -0.0067 | 0.9965 |
| 38) | C | Tetrahydrofuran | Lin | -0.0045 | 0.3615 | ----- | 0.9989 |
| 39) | C | Methacrylonitrile | Lin | 0.0029 | 0.5088 | ----- | 0.9946 |
| 41) | CP | Cyclohexane | Lin | 0.0142 | 0.6862 | ----- | 0.9988 |
| 42) | I | 1,4-Difluorobenzene | | ----------ISTD---------- | | | |
| 51) | C | Isobutyl Alcohol | Lin | 0.0059 | 0.2239 | ----- | 0.9987 |
| 53) | C | 1,4-Dioxane | Lin | -0.0094 | 0.0096 | ----- | 0.9991 |
| 54) | CP | Methylcyclohexane | Lin | -0.0045 | 0.3975 | ----- | 0.9984 |
| 55) | T | n-Butanol | Quad | -0.0196 | 0.0175 | 0.0001 | 0.9983 |
| 59) | C | Methyl methacrylate | Lin | -0.0040 | 0.3730 | ----- | 0.9977 |
| 61) | C | 2-Chloroethyl vi... | Lin | -0.0007 | 0.0945 | ----- | 0.9968 |
| 62) | C | 2-Nitropropane | Lin | -0.0004 | 0.1225 | ----- | 0.9963 |
| 63) | CP | cis-1,3-Dichloro... | Lin | -0.0052 | 0.4627 | ----- | 0.9980 |
| 64) | I | Chlorobenzene-d5 | | ----------ISTD---------- | | | |
| 65) | CP | 4-Methyl-2-penta... | Lin | -0.0050 | 0.5196 | ----- | 0.9968 |
| 68) | CP | trans-1,3-Dichlo... | Quad | -0.0036 | 0.3706 | 0.0253 | 0.9986 |
| 69) | T | Chloropicrin | Quad | ----- | ----- | ----- | 0.0000 |
| 70) | C | Ethyl methacrylate | Quad | -0.0078 | 0.4326 | 0.0150 | 0.9986 |
| 74) | CP | 2-Hexanone | Lin | -0.0046 | 0.3988 | ----- | 0.9966 |
| 75) | CP | Chlorodibromomet... | Quad | -0.0044 | 0.3052 | 0.0079 | 0.9986 |
| 76) | T | Butyl acetate | Lin | -0.0077 | 0.6445 | ----- | 0.9964 |
| 80) | CP | Ethylbenzene | Quad | -0.0142 | 1.3111 | 0.0356 | 0.9989 |
| 81) | CP | m/p-Xylene | Quad | -0.0273 | 1.0331 | 0.0112 | 0.9984 |
| 82) | CP | Styrene | Quad | -0.0035 | 0.6612 | 0.0542 | 0.9901 |
| 83) | CP | o-Xylene | Quad | -0.0109 | 1.0165 | 0.0273 | 0.9988 |
| 84) | C | Cyclohexanone | Lin | -0.0013 | 0.0281 | ----- | 0.9978 |
| 85) | CP | Bromoform | Quad | -0.0014 | 0.1927 | 0.0050 | 0.9986 |
| 86) | CP | Isopropylbenzene | Quad | -0.0184 | 1.2069 | 0.0272 | 0.9982 |
| 91) | C | n-Propylbenzene | Lin | -0.0201 | 1.5693 | ----- | 0.9975 |
| 93) | C | 4-Chlorotoluene | Lin | -0.0086 | 1.0611 | ----- | 0.9983 |
| 94) | C | 1,3,5-Trimethylb... | Quad | -0.0159 | 0.9678 | 0.0188 | 0.9984 |
| 95) | C | tert-Butylbenzene | Lin | -0.0072 | 0.5973 | ----- | 0.9982 |
| 96) | C | 1,2,4-Trimethylb... | Quad | -0.0182 | 1.0255 | 0.0145 | 0.9982 |
| 97) | C | sec-Butylbenzene | Quad | -0.0171 | 1.1042 | 0.0253 | 0.9984 |
| 98) | I | 1,4-Dichlorobenz... | | ----------ISTD---------- | | | |
| 101) | C | p-Isopropyltoluene | Quad | -0.0297 | 1.9002 | 0.0605 | 0.9987 |
| 103) | C | 1,2,3-Trimethylb... | Lin | -0.0240 | 2.2436 | ----- | 0.9987 |
| 104) | C | Benzyl chloride | Quad | -0.0058 | 0.7681 | 0.0892 | 0.9988 |
| 106) | T | n-Butylbenzene | Quad | -0.0201 | 1.6100 | 0.0588 | 0.9991 |
| 107) | C | Hexachloroethane | Quad | -0.0019 | 0.2888 | 0.0124 | 0.9993 |
| 108) | CP | 1,2-Dibromo-3-ch... | Quad | -0.0009 | 0.2207 | 0.0147 | 0.9995 |
| 110) | CP | 1,2,4-Trichlorob... | Quad | -0.0039 | 0.6183 | 0.0319 | 0.9997 |
| 112) | C | Naphthalene | Quad | 0.0032 | 1.7865 | 0.3059 | 0.9943 |
| 113) | C | 1,2,3-Trichlorob... | Quad | -0.0059 | 0.6525 | 0.0297 | 0.9994 |

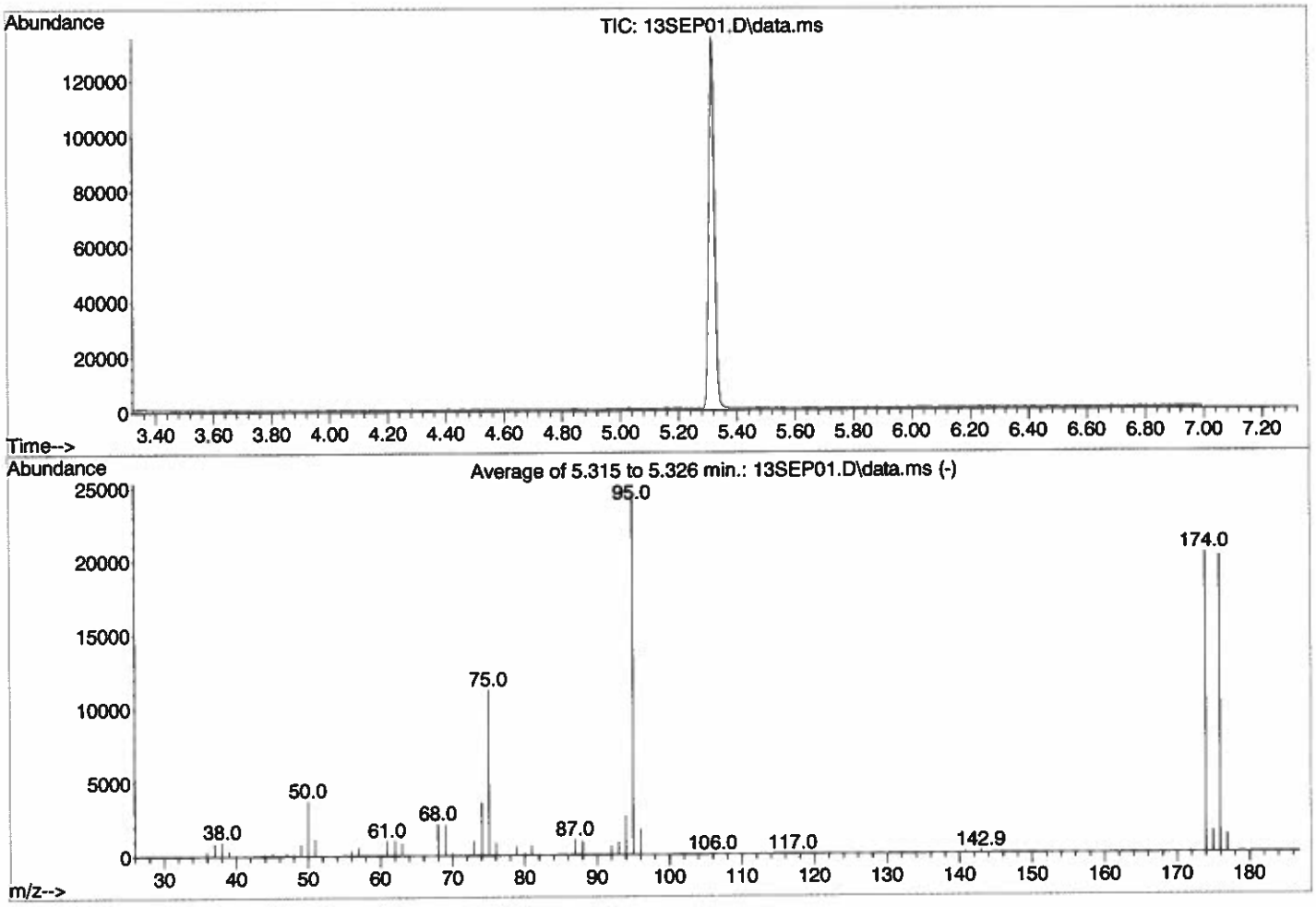
Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 10WGO0913.M
Title : 8260 Global Optimization Method

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 114) | C | 2-Methylnaphthalene | Quad | 0.0003 | 0.5938 | 0.2060 | 0.9910 |
| 115) | C | 1-Methylnaphthalene | Quad | -0.0028 | 0.6815 | 0.1914 | 0.9913 |
| 116) | I | Ethyl-d5-Acetate-d3 | | ----------ISTD---------- | | | |
| 117) | T | 2-Propanone | Lin | 0.0245 | 0.7704 | ----- | 0.9969 |
| 119) | T | Isopropyl Acetate | Lin | -0.0141 | 0.5161 | ----- | 0.9971 |
| 120) | T | Amyl Acetate | Lin | -0.0244 | 1.6678 | ----- | 0.9950 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP01.D
Acq On : 13 Sep 2018 02:40 pm
Operator : LNS
Sample : VBFB1-180913
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: 8260.P

Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Title : 8260 Global Optimization Method
Last Update : Fri Sep 28 15:40:37 2018




Spectrum Information: Average of 5.315 to 5.326 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.4 | 3726 | PASS |
| 75 | 95 | 30 | 60 | 46.5 | 11230 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 24129 | PASS |
| 96 | 95 | 5 | 9 | 7.3 | 1761 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 84.3 | 20347 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 1524 | PASS |
| 176 | 174 | 95 | 101 | 99.0 | 20137 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 1282 | PASS |

# Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP08.D
Acq On : 13 Sep 2018 06:10 pm
Operator : LNS
Sample : 0.4PPB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 09:28:26 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:28:23 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Pentafluorobenzene | 4.986 | 168 | 158215 | 20.00 ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.275 | 114 | 250284 | 20.00 ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 240998 | 20.00 ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.155 | 152 | 105273 | 20.00 ug/L | # 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.126 | 46 | 69700 | 20.00 ug/L | # 0.00 |
| **System Monitoring Compounds** | | | | | |
| 44) Dibromofluoromethane | 4.917 | 111 | 91888 | 20.79 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 103.95% | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 113617 | 20.99 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 104.95% | | |
| 66) Toluene-d8 | 7.801 | 98 | 316957 | 19.20 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 96.00% | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 108236 | 18.32 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 91.60% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 1583 | 0.34 ug/L | 91 |
| 3) Chloromethane | 1.378 | 50 | 4092 | 0.61 ug/L | 100 |
| 4) Vinyl chloride | 1.457 | 62 | 1720 | 0.39 ug/L | 81 |
| 5) Bromomethane | 1.693 | 96 | 958 | 0.49 ug/L # | 80 |
| 6) Chloroethane | 1.766 | 64 | 2151 | 0.35 ug/L | 74 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 1989 | 0.40 ug/L | 93 |
| 8) Ethanol | 2.071 | 45 | 3583 | 4.79 ug/L | 95 |
| 9) Ethyl ether | 2.160 | 59 | 1002 | 0.33 ug/L | 87 |
| 10) Acrolein | 2.275 | 56 | 2800 | N.D. | |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 1736 | 0.34 ug/L | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.359 | 151 | 551 | 0.23 ug/L | 85 |
| 13) Methyl iodide | 2.485 | 142 | 361 | Below Cal # | 42 |
| 14) Acetone | 2.390 | 43 | 2371 | 0.12 ug/L | 99 |
| 15) 2-Propanol | 2.500 | 45 | 7213 | 9.55 ug/L # | 85 |
| 16) Chloroprene | 3.586 | 53 | 1418 | 0.50 ug/L # | 94 |
| 17) Carbon disulfide | 2.542 | 76 | 4349 | 0.49 ug/L | 97 |
| 18) Allyl chloride | 2.668 | 41 | 1841 | 0.32 ug/L # | 78 |
| 19) Methyl acetate | 2.658 | 43 | 2875 | 0.37 ug/L # | 92 |
| 20) Acetonitrile | 2.668 | 41 | 1841 | 0.32 ug/L # | 66 |
| 21) Methylene chloride | 2.784 | 49 | 4469 | 0.10 ug/L | 99 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 1868 | 0.37 ug/L | 91 |
| 23) t-Butanol | 2.878 | 59 | 3246 | 2.83 ug/L # | 89 |
| 24) Acrylonitrile | 3.025 | 53 | 985 | 0.33 ug/L | 82 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 3301 | 0.33 ug/L | 86 |
| 26) Hexane | 3.318 | 57 | 1093 | 0.35 ug/L # | 74 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 2618 | 0.38 ug/L | 89 |
| 28) Diisopropyl ether | 3.544 | 45 | 2705 | 0.26 ug/L # | 90 |
| 29) Vinyl acetate | 0.000 | | 0 | N.D. | |
| 30) Ethyl tert butyl ether | 3.974 | 59 | 2255 | 0.24 ug/L | 91 |
| 31) 2,2-Dichloropropane | 4.199 | 77 | 1664 | 0.40 ug/L # | 83 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 2120 | 0.37 ug/L # | 76 |
| 33) 2-Butanone | 4.225 | 43 | 1212 | 0.54 ug/L # | 50 |
| 34) Ethyl Acetate | 4.294 | 43 | 744 | 0.10 ug/L # | 72 |
| 35) Methyl acrylate | 4.341 | 55 | 1087 | 0.54 ug/L # | 66 |
| 36) Propionitrile | 4.991 | 54 | 106 | Below Cal # | 1 |
| 37) Bromochloromethane | 4.519 | 49 | 1248 | 0.39 ug/L | 94 |
| 38) Tetrahydrofuran | 4.561 | 42 | 555 | 0.44 ug/L # | 32 |
| 39) Methacrylonitrile | 4.509 | 41 | 585 | N.D. | |
| 40) Chloroform | 4.682 | 83 | 2511 | 0.38 ug/L | 94 |
| 41) Cyclohexane | 4.986 | 56 | 4818 | 0.47 ug/L # | 49 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP08.D
Acq On : 13 Sep 2018 06:10 pm
Operator : LNS
Sample : 0.4PPB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 09:28:26 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:28:23 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 43) 1,1,1-Trichloroethane | 4.902 | 97 | 1646 | 0.35 ug/L # | 94 |
| 45) Carbon tetrachloride | 5.132 | 117 | 1171 | 0.31 ug/L # | 83 |
| 46) 1,1-Dichloropropene | 5.153 | 75 | 1662 | 0.37 ug/L # | 72 |
| 48) 1,2-Dichloroethane | 5.599 | 62 | 2231 | 0.41 ug/L # | 85 |
| 49) Benzene | 5.473 | 78 | 5693 | 0.38 ug/L | 95 |
| 50) Tertiaryamylmethylether | 5.746 | 73 | 2163 | 0.25 ug/L # | 70 |
| 51) Isobutyl Alcohol | 5.657 | 43 | 511 | Below Cal # | 59 |
| 52) Heptane | 6.066 | 43 | 821 | 0.35 ug/L # | 44 |
| 53) 1,4-Dioxane | 6.994 | 88 | 3233 | 46.22 ug/L | 89 |
| 54) Methylcyclohexane | 6.836 | 83 | 1270 | 0.48 ug/L # | 90 |
| 55) n-Butanol | 0.000 | | 0 | N.D. | |
| 56) Trichloroethene | 6.580 | 130 | 1419 | 0.39 ug/L | 95 |
| 57) 1,2-Dichloropropane | 6.889 | 63 | 1231 | 0.32 ug/L # | 78 |
| 58) Dibromomethane | 6.983 | 93 | 891 | 0.35 ug/L # | 71 |
| 59) Methyl methacrylate | 7.020 | 41 | 1381 | 0.51 ug/L # | 50 |
| 60) Bromodichloromethane | 7.182 | 83 | 1792 | 0.40 ug/L # | 81 |
| 61) 2-Chloroethyl vinyl ether | 7.487 | 43 | 337 | 0.42 ug/L # | 11 |
| 62) 2-Nitropropane | 7.408 | 43 | 620 | 0.47 ug/L # | 74 |
| 63) cis-1,3-Dichloropropene | 7.597 | 75 | 1659 | 0.51 ug/L | 76 |
| 65) 4-Methyl-2-pentanone | 7.738 | 43 | 1714 | 0.47 ug/L # | 74 |
| 67) Toluene | 7.859 | 91 | 5770 | 0.37 ug/L | 97 |
| 68) trans-1,3-Dichloropropene | 8.069 | 75 | 1238 | 0.47 ug/L | 87 |
| 69) Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) Ethyl methacrylate | 8.121 | 69 | 1219 | 0.71 ug/L | 94 |
| 71) 1,1,2-Trichloroethane | 8.205 | 97 | 1408 | 0.36 ug/L | 99 |
| 72) Tetrachloroethene | 8.247 | 166 | 1452 | 0.39 ug/L | 94 |
| 73) 1,3-Dichloropropane | 8.320 | 76 | 2340 | 0.35 ug/L | 93 |
| 74) 2-Hexanone | 8.383 | 43 | 1010 | 0.44 ug/L # | 62 |
| 75) Chlorodibromomethane | 8.467 | 129 | 1003 | 0.66 ug/L # | 78 |
| 76) Butyl acetate | 8.462 | 43 | 2155 | 0.52 ug/L # | 69 |
| 77) 1,2-Dibromoethane | 8.540 | 107 | 1338 | 0.39 ug/L # | 98 |
| 78) Chlorobenzene | 8.860 | 112 | 3547 | 0.37 ug/L # | 44 |
| 79) 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 941 | 0.30 ug/L | 90 |
| 80) Ethylbenzene | 8.923 | 91 | 5440 | 0.66 ug/L | 97 |
| 81) m/p-Xylene | 9.007 | 91 | 7863 | 1.32 ug/L | 97 |
| 82) Styrene | 9.248 | 104 | 2514 | 0.70 ug/L | 97 |
| 83) o-Xylene | 9.232 | 91 | 3904 | 0.63 ug/L | 90 |
| 84) Cyclohexanone | 9.505 | 55 | 299 | 1.78 ug/L # | 64 |
| 85) Bromoform | 9.358 | 173 | 655 | 0.42 ug/L | 91 |
| 86) Isopropylbenzene | 9.442 | 105 | 3959 | 0.66 ug/L | 93 |
| 88) Bromobenzene | 9.620 | 77 | 3787 | 0.42 ug/L | 91 |
| 89) 1,2,3-Trichloropropane | 9.652 | 110 | 738 | 0.37 ug/L | 98 |
| 90) trans-1,4-Dichloro-2-b... | 9.636 | 53 | 625 | 0.37 ug/L # | 60 |
| 91) n-Propylbenzene | 9.668 | 91 | 4949 | 0.52 ug/L | 95 |
| 92) 2-Chlorotoluene | 9.720 | 91 | 3586 | 0.36 ug/L | 96 |
| 93) 4-Chlorotoluene | 9.788 | 91 | 4377 | 0.50 ug/L | 90 |
| 94) 1,3,5-Trimethylbenzene | 9.762 | 105 | 3409 | 0.69 ug/L | 98 |
| 95) tert-Butylbenzene | 9.930 | 91 | 1943 | 0.51 ug/L | 81 |
| 96) 1,2,4-Trimethylbenzene | 9.961 | 105 | 3447 | 0.68 ug/L | 88 |
| 97) sec-Butylbenzene | 10.045 | 105 | 3805 | 0.68 ug/L | 95 |
| 99) 1,1,2,2-Tetrachloroethane | 9.620 | 83 | 2502 | 0.42 ug/L | 96 |
| 100) 1,3-Dichlorobenzene | 10.113 | 146 | 2483 | 0.40 ug/L | 99 |
| 101) p-Isopropyltoluene | 10.119 | 119 | 2732 | 0.70 ug/L | 92 |
| 102) 1,4-Dichlorobenzene | 10.113 | 146 | 2483 | 0.38 ug/L | 98 |
| 103) 1,2,3-Trimethylbenzene | 10.171 | 105 | 3303 | 0.49 ug/L | 95 |
| 104) Benzyl chloride | 10.223 | 91 | 1363 | 0.49 ug/L | 72 |
| 105) 1,2-Dichlorobenzene | 10.349 | 146 | 2669 | 0.44 ug/L | 89 |
| 106) n-Butylbenzene | 10.323 | 91 | 3039 | 0.73 ug/L | 98 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP08.D
Acq On : 13 Sep 2018 06:10 pm
Operator : LNS
Sample : 0.4PPB
Misc :
ALS Vial : 5 Sample Multiplier: 1

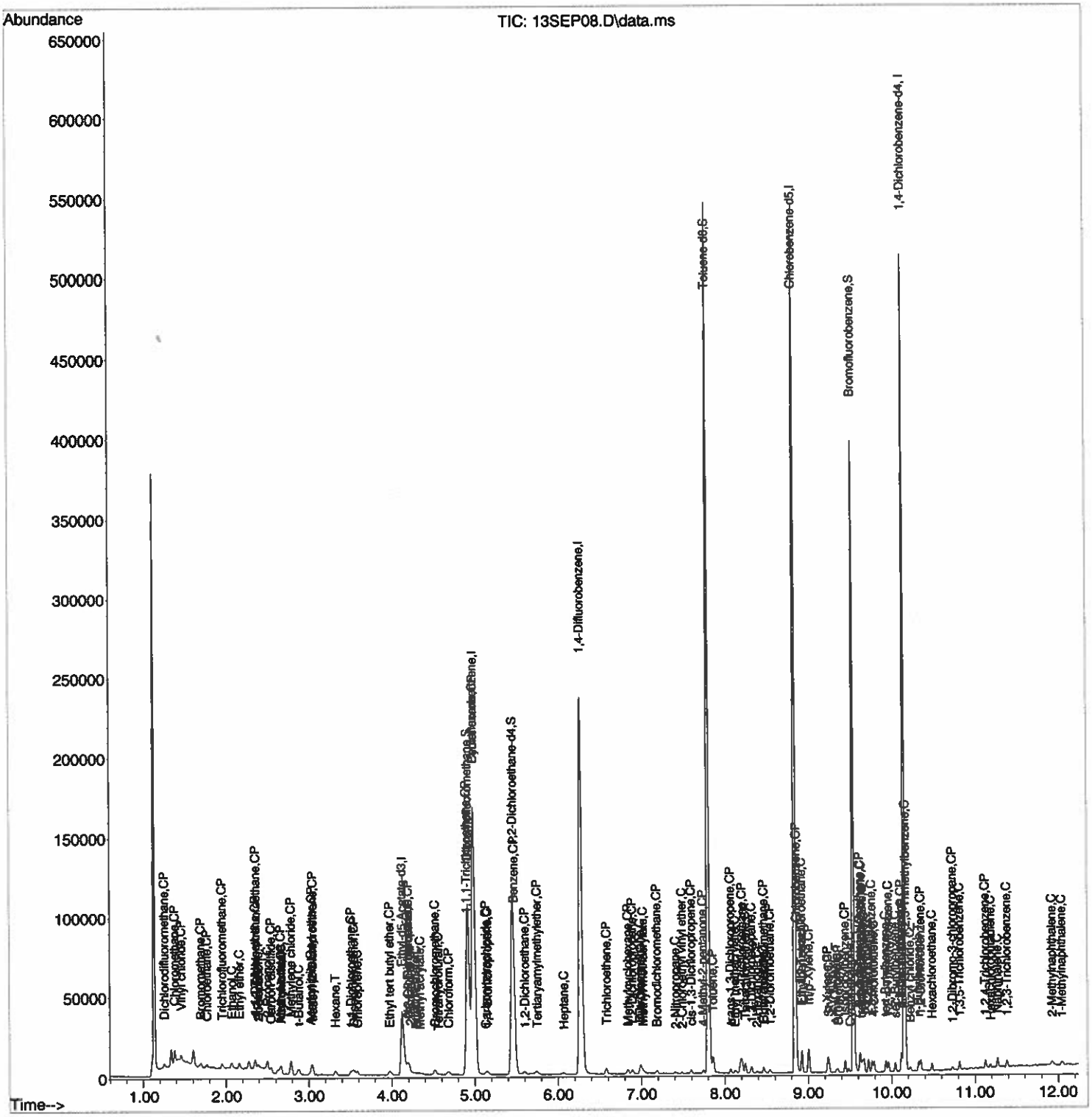
Quant Time: Sep 14 09:28:26 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:28:23 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 107) Hexachloroethane | 10.486 | 117 | 481 | 0.45 ug/L # | 85 |
| 108) 1,2-Dibromo-3-chloropr... | 10.732 | 157 | 425 | 0.44 ug/L | 97 |
| 109) 1,3,5-Trichlorobenzene | 10.816 | 180 | 1538 | 0.42 ug/L # | 93 |
| 110) 1,2,4-Trichlorobenzene | 11.125 | 180 | 1470 | 0.74 ug/L | 89 |
| 111) Hexachlorobutadiene | 11.188 | 225 | 578 | 0.44 ug/L | 90 |
| 112) Naphthalene | 11.272 | 128 | 4346 | 0.42 ug/L | 96 |
| 113) 1,2,3-Trichlorobenzene | 11.382 | 180 | 1262 | 0.70 ug/L | 89 |
| 114) 2-Methylnaphthalene | 11.927 | 142 | 1452 | 0.45 ug/L | 94 |
| 115) 1-Methylnaphthalene | 12.043 | 142 | 1206 | 0.42 ug/L | 83 |
| 117) 2-Propanone | 2.390 | 43 | 2371 | 0.25 ug/L | 99 |
| 118) Acetic Ether | 4.294 | 43 | 928 | 0.16 ug/L # | 67 |
| 119) Isopropyl Acetate | 0.000 | | 0 | N.D. | |
| 120) Amyl Acetate | 9.337 | 43 | 1178 | 0.50 ug/L # | 68 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP08.D
Acq On : 13 Sep 2018 06:10 pm
Operator : LNS
Sample : 0.4PPB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 09:28:26 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WG00913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:28:23 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP09.D
Acq On : 13 Sep 2018 06:27 pm
Operator : LNS
Sample : 0.6PPB
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 09:59:38 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 155134 | 20.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.275 | 114 | 248929 | 20.00 | ug/L | | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 242113 | 20.00 | ug/L | | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.155 | 152 | 107951 | 20.00 | ug/L | # | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.126 | 46 | 68417 | 20.00 | ug/L | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 91393 | 20.79 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 103.95% | | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 114080 | 21.19 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 105.95% | | | | |
| 66) Toluene-d8 | 7.801 | 98 | 313730 | 18.92 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 94.60% | | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 109580 | 18.47 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 92.35% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 2635 | 0.57 | ug/L | | 88 |
| 3) Chloromethane | 1.378 | 50 | 4753 | 0.72 | ug/L | | 93 |
| 4) Vinyl chloride | 1.457 | 62 | 2530 | 0.59 | ug/L | | 74 |
| 5) Bromomethane | 1.693 | 96 | 986 | 0.54 | ug/L | # | 70 |
| 6) Chloroethane | 1.766 | 64 | 2620 | 0.56 | ug/L | | 78 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 2933 | 0.60 | ug/L | | 97 |
| 8) Ethanol | 2.071 | 45 | 6452 | 14.63 | ug/L | # | 94 |
| 9) Ethyl ether | 2.160 | 59 | 1962 | 0.66 | ug/L | | 97 |
| 10) Acrolein | 2.275 | 56 | 4335 | 2.20 | ug/L | | 94 |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 3190 | 0.64 | ug/L | | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.354 | 151 | 1406 | 0.61 | ug/L | | 93 |
| 13) Methyl iodide | 2.485 | 142 | 509 | 0.49 | ug/L | # | 42 |
| 14) Acetone | 2.390 | 43 | 3529 | 0.56 | ug/L | | 96 |
| 15) 2-Propanol | 2.500 | 45 | 8197 | 11.07 | ug/L | # | 82 |
| 16) Chloroprene | 3.591 | 53 | 2219 | 0.66 | ug/L | | 92 |
| 17) Carbon disulfide | 2.548 | 76 | 5470 | 0.63 | ug/L | | 95 |
| 18) Allyl chloride | 2.668 | 41 | 4069 | 0.73 | ug/L | | 91 |
| 19) Methyl acetate | 2.658 | 43 | 5069 | 0.75 | ug/L | # | 92 |
| 20) Acetonitrile | 2.668 | 41 | 4069 | 0.73 | ug/L | # | 87 |
| 21) Methylene chloride | 2.784 | 49 | 6767 | 0.61 | ug/L | | 98 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 2901 | 0.59 | ug/L | | 96 |
| 23) t-Butanol | 2.883 | 59 | 4289 | 3.82 | ug/L | # | 87 |
| 24) Acrylonitrile | 3.025 | 53 | 1616 | 0.55 | ug/L | | 98 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 6914 | 0.70 | ug/L | | 100 |
| 26) Hexane | 3.324 | 57 | 1830 | 0.59 | ug/L | # | 86 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 4160 | 0.62 | ug/L | | 90 |
| 28) Diisopropyl ether | 3.549 | 45 | 6625 | 0.65 | ug/L | | 98 |
| 29) Vinyl acetate | 0.000 | | 0 | N.D. | | | |
| 30) Ethyl tert butyl ether | 3.984 | 59 | 5654 | 0.62 | ug/L | | 95 |
| 31) 2,2-Dichloropropane | 4.204 | 77 | 2673 | 0.65 | ug/L | # | 85 |
| 32) cis-1,2-Dichloroethene | 4.204 | 61 | 3226 | 0.58 | ug/L | | 87 |
| 33) 2-Butanone | 4.225 | 43 | 2787 | 1.76 | ug/L | # | 71 |
| 34) Ethyl Acetate | 4.278 | 43 | 3814 | 0.52 | ug/L | # | 79 |
| 35) Methyl acrylate | 4.351 | 55 | 2258 | 0.73 | ug/L | # | 66 |
| 36) Propionitrile | 0.000 | | 0 | N.D. | | | |
| 37) Bromochloromethane | 4.524 | 49 | 2002 | 0.64 | ug/L | | 98 |
| 38) Tetrahydrofuran | 4.561 | 42 | 1115 | 0.65 | ug/L | # | 53 |
| 39) Methacrylonitrile | 4.514 | 41 | 1050 | 0.15 | ug/L | # | 73 |
| 40) Chloroform | 4.687 | 83 | 3910 | 0.60 | ug/L | | 97 |
| 41) Cyclohexane | 4.991 | 56 | 5512 | 0.62 | ug/L | # | 54 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP09.D
Acq On : 13 Sep 2018 06:27 pm
Operator : LNS
Sample : 0.6PPB
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 09:59:38 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) | 1,1,1-Trichloroethane | 4.902 | 97 | 2766 | 0.59 ug/L # | 89 |
| 45) | Carbon tetrachloride | 5.138 | 117 | 1961 | 0.51 ug/L | 94 |
| 46) | 1,1-Dichloropropene | 5.164 | 75 | 2929 | 0.65 ug/L | 87 |
| 48) | 1,2-Dichloroethane | 5.594 | 62 | 3604 | 0.66 ug/L # | 92 |
| 49) | Benzene | 5.479 | 78 | 9374 | 0.64 ug/L | 96 |
| 50) | Tertiaryamylmethylether | 5.746 | 73 | 5479 | 0.65 ug/L # | 78 |
| 51) | Isobutyl Alcohol | 5.678 | 43 | 1546 | N.D. | |
| 52) | Heptane | 6.066 | 43 | 1295 | 0.56 ug/L # | 72 |
| 53) | 1,4-Dioxane | 6.994 | 88 | 4647 | 58.14 ug/L | 99 |
| 54) | Methylcyclohexane | 6.836 | 83 | 2214 | 0.68 ug/L # | 86 |
| 55) | n-Butanol | 0.000 | | 0 | N.D. | |
| 56) | Trichloroethene | 6.569 | 130 | 2162 | 0.60 ug/L | 96 |
| 57) | 1,2-Dichloropropane | 6.894 | 63 | 2314 | 0.61 ug/L | 87 |
| 58) | Dibromomethane | 6.983 | 93 | 1450 | 0.57 ug/L | 90 |
| 59) | Methyl methacrylate | 7.009 | 41 | 2142 | 0.68 ug/L # | 78 |
| 60) | Bromodichloromethane | 7.188 | 83 | 2659 | 0.60 ug/L | 96 |
| 61) | 2-Chloroethyl vinyl ether | 7.487 | 43 | 780 | 0.80 ug/L # | 30 |
| 62) | 2-Nitropropane | 7.413 | 43 | 1179 | 0.84 ug/L # | 90 |
| 63) | cis-1,3-Dichloropropene | 7.597 | 75 | 2633 | 0.68 ug/L | 98 |
| 65) | 4-Methyl-2-pentanone | 7.738 | 43 | 3401 | 0.73 ug/L | 84 |
| 67) | Toluene | 7.859 | 91 | 9077 | 0.58 ug/L | 99 |
| 68) | trans-1,3-Dichloropropene | 8.069 | 75 | 2060 | 0.65 ug/L | 90 |
| 69) | Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) | Ethyl methacrylate | 8.121 | 69 | 2157 | 0.77 ug/L | 90 |
| 71) | 1,1,2-Trichloroethane | 8.205 | 97 | 2307 | 0.59 ug/L | 97 |
| 72) | Tetrachloroethene | 8.247 | 166 | 2054 | 0.55 ug/L | 94 |
| 73) | 1,3-Dichloropropane | 8.320 | 76 | 3924 | 0.59 ug/L | 95 |
| 74) | 2-Hexanone | 8.383 | 43 | 2480 | 0.74 ug/L | 93 |
| 75) | Chlorodibromomethane | 8.467 | 129 | 1714 | 0.75 ug/L | 90 |
| 76) | Butyl acetate | 8.462 | 43 | 3171 | 0.65 ug/L # | 91 |
| 77) | 1,2-Dibromoethane | 8.540 | 107 | 2297 | 0.66 ug/L # | 91 |
| 78) | Chlorobenzene | 8.860 | 112 | 5741 | 0.59 ug/L # | 66 |
| 79) | 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 1707 | 0.54 ug/L | 88 |
| 80) | Ethylbenzene | 8.923 | 91 | 8048 | 0.72 ug/L | 99 |
| 81) | m/p-Xylene | 9.002 | 91 | 12355 | 1.52 ug/L | 95 |
| 82) | Styrene | 9.248 | 104 | 4159 | 0.63 ug/L | 97 |
| 83) | o-Xylene | 9.233 | 91 | 6496 | 0.74 ug/L | 97 |
| 84) | Cyclohexanone | 9.505 | 55 | 951 | 3.69 ug/L # | 76 |
| 85) | Bromoform | 9.358 | 173 | 1340 | 0.71 ug/L | 81 |
| 86) | Isopropylbenzene | 9.442 | 105 | 6626 | 0.76 ug/L | 98 |
| 88) | Bromobenzene | 9.621 | 77 | 4242 | 0.46 ug/L | 86 |
| 89) | 1,2,3-Trichloropropane | 9.647 | 110 | 1297 | 0.64 ug/L | 95 |
| 90) | trans-1,4-Dichloro-2-b... | 9.636 | 53 | 891 | 0.53 ug/L # | 62 |
| 91) | n-Propylbenzene | 9.668 | 91 | 8257 | 0.69 ug/L | 98 |
| 92) | 2-Chlorotoluene | 9.720 | 91 | 5696 | 0.57 ug/L | 92 |
| 93) | 4-Chlorotoluene | 9.788 | 91 | 6225 | 0.65 ug/L | 97 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 4995 | 0.75 ug/L | 96 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 2940 | 0.65 ug/L # | 81 |
| 96) | 1,2,4-Trimethylbenzene | 9.961 | 105 | 5135 | 0.77 ug/L | 96 |
| 97) | sec-Butylbenzene | 10.045 | 105 | 6055 | 0.76 ug/L | 98 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.621 | 83 | 3850 | 0.63 ug/L | 96 |
| 100) | 1,3-Dichlorobenzene | 10.113 | 146 | 3856 | 0.61 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 4739 | 0.77 ug/L | 96 |
| 102) | 1,4-Dichlorobenzene | 10.113 | 146 | 3856 | 0.58 ug/L | 98 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 5723 | 0.69 ug/L | 97 |
| 104) | Benzyl chloride | 10.223 | 91 | 2024 | 0.64 ug/L | 94 |
| 105) | 1,2-Dichlorobenzene | 10.349 | 146 | 3426 | 0.55 ug/L | 89 |
| 106) | n-Butylbenzene | 10.323 | 91 | 4248 | 0.74 ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP09.D
Acq On : 13 Sep 2018 06:27 pm
Operator : LNS
Sample : 0.6PPB
Misc :
ALS Vial : 6 Sample Multiplier: 1

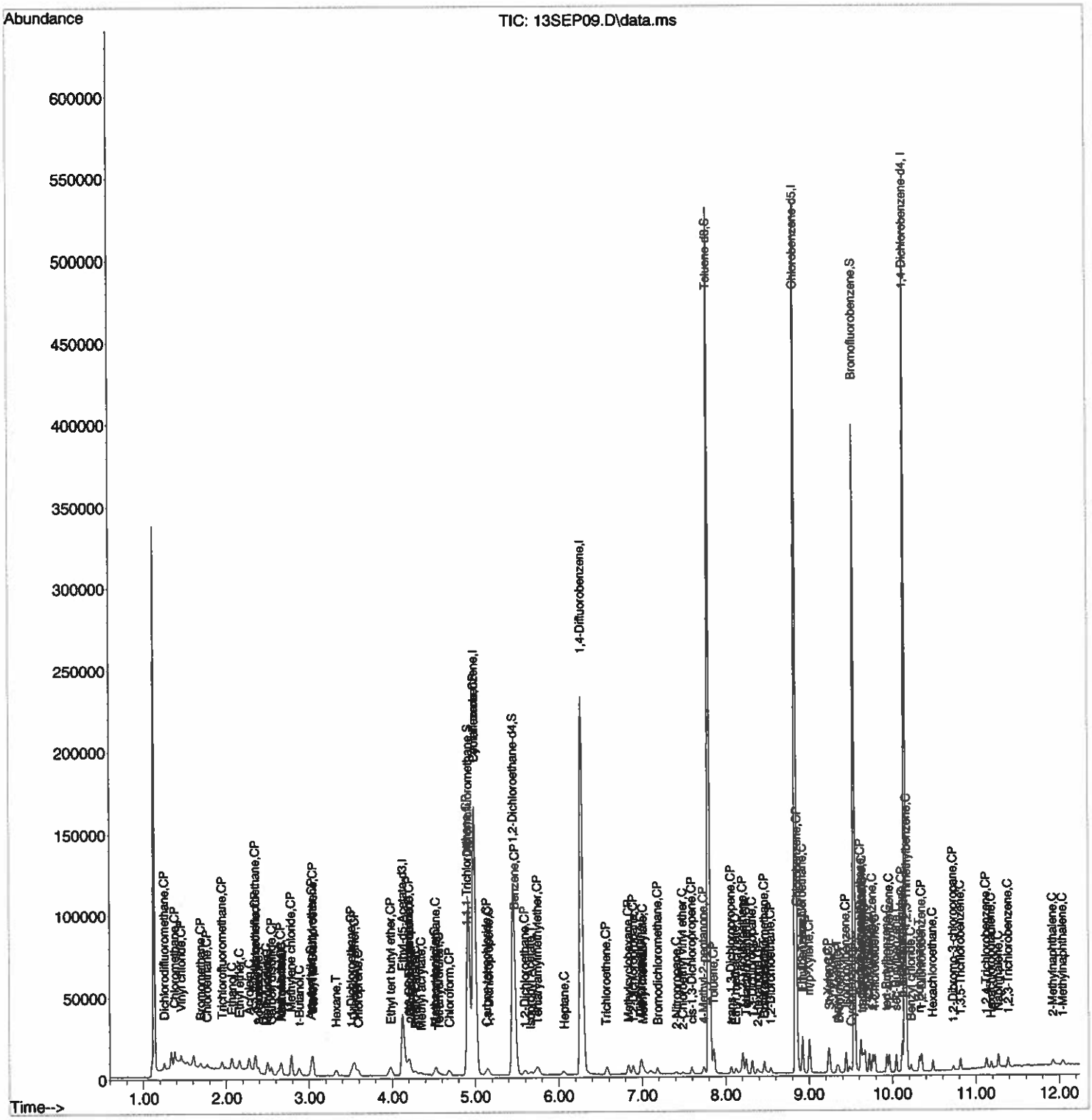
Quant Time: Sep 14 09:59:38 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 107) Hexachloroethane | 10.480 | 117 | 765 | 0.62 ug/L # | 85 |
| 108) 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 621 | 0.60 ug/L | 92 |
| 109) 1,3,5-Trichlorobenzene | 10.816 | 180 | 2174 | 0.58 ug/L | 98 |
| 110) 1,2,4-Trichlorobenzene | 11.125 | 180 | 1851 | 0.68 ug/L | 100 |
| 111) Hexachlorobutadiene | 11.183 | 225 | 770 | 0.58 ug/L | 94 |
| 112) Naphthalene | 11.272 | 128 | 5809 | 0.56 ug/L | 98 |
| 113) 1,2,3-Trichlorobenzene | 11.387 | 180 | 1924 | 0.73 ug/L | 98 |
| 114) 2-Methylnaphthalene | 11.922 | 142 | 1687 | 0.51 ug/L | 86 |
| 115) 1-Methylnaphthalene | 12.043 | 142 | 1886 | 0.59 ug/L | 95 |
| 117) 2-Propanone | 2.390 | 43 | 3529 | 0.70 ug/L | 96 |
| 118) Acetic Ether | 4.278 | 43 | 3814 | 0.66 ug/L # | 82 |
| 119) Isopropyl Acetate | 5.662 | 61 | 436 | 0.79 ug/L # | 1 |
| 120) Amyl Acetate | 9.337 | 43 | 2851 | 0.79 ug/L # | 88 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP09.D
Acq On : 13 Sep 2018 06:27 pm
Operator : LNS
Sample : 0.6PPB
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 09:59:38 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WG00913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration



# Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP10.D
Acq On : 13 Sep 2018 06:43 pm
Operator : LNS
Sample : 2PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 09:56:07 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:56:01 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 154567 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 248235 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 237737 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 111309 | 20.00 | ug/L | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.126 | 46 | 68759 | 20.00 | ug/L | # 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 88588 | 20.21 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 101.05% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.463 | 65 | 111885 | 20.84 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 104.20% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 318848 | 19.58 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 97.90% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 115276 | 19.78 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 98.90% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 9445 | 2.07 | ug/L | 95 |
| 3) Chloromethane | 1.379 | 50 | 13496 | 2.06 | ug/L | 99 |
| 4) Vinyl chloride | 1.457 | 62 | 8716 | 2.02 | ug/L | 90 |
| 5) Bromomethane | 1.693 | 96 | 2849 | 2.23 | ug/L | 91 |
| 6) Chloroethane | 1.767 | 64 | 6348 | 2.10 | ug/L | 92 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 9782 | 2.02 | ug/L | 94 |
| 8) Ethanol | 2.071 | 45 | 13213 | 37.43 | ug/L # | 94 |
| 9) Ethyl ether | 2.160 | 59 | 5872 | 1.98 | ug/L | 92 |
| 10) Acrolein | 2.275 | 56 | 11200 | 11.52 | ug/L | 95 |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 10144 | 2.05 | ug/L | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.354 | 151 | 4685 | 2.03 | ug/L | 100 |
| 13) Methyl iodide | 2.485 | 142 | 1508 | 2.17 | ug/L # | 81 |
| 14) Acetone | 2.391 | 43 | 7165 | 1.90 | ug/L | 93 |
| 15) 2-Propanol | 2.501 | 45 | 30491 | 41.34 | ug/L # | 86 |
| 16) Chloroprene | 3.591 | 53 | 8111 | 1.81 | ug/L | 95 |
| 17) Carbon disulfide | 2.543 | 76 | 16267 | 1.88 | ug/L | 100 |
| 18) Allyl chloride | 2.668 | 41 | 11483 | 2.06 | ug/L | 96 |
| 19) Methyl acetate | 2.658 | 43 | 11667 | 1.88 | ug/L | 95 |
| 20) Acetonitrile | 2.668 | 41 | 11483 | 2.06 | ug/L # | 91 |
| 21) Methylene chloride | 2.789 | 49 | 13432 | 2.03 | ug/L | 96 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 9590 | 1.96 | ug/L | 98 |
| 23) t-Butanol | 2.883 | 59 | 10704 | 9.57 | ug/L # | 87 |
| 24) Acrylonitrile | 3.025 | 53 | 5656 | 1.94 | ug/L | 94 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 17557 | 1.77 | ug/L | 98 |
| 26) Hexane | 3.324 | 57 | 5804 | 1.88 | ug/L | 87 |
| 27) 1,1-Dichloroethane | 3.513 | 63 | 13298 | 1.98 | ug/L | 99 |
| 28) Diisopropyl ether | 3.544 | 45 | 17754 | 1.74 | ug/L | 98 |
| 29) Vinyl acetate | 3.528 | 86 | 795 | 2.18 | ug/L # | 1 |
| 30) Ethyl tert butyl ether | 3.984 | 59 | 16172 | 1.77 | ug/L | 95 |
| 31) 2,2-Dichloropropane | 4.199 | 77 | 7770 | 1.90 | ug/L | 93 |
| 32) cis-1,2-Dichloroethene | 4.205 | 61 | 11374 | 2.05 | ug/L | 96 |
| 33) 2-Butanone | 4.220 | 43 | 4731 | 2.27 | ug/L | 81 |
| 34) Ethyl Acetate | 4.273 | 43 | 10698 | 1.46 | ug/L # | 94 |
| 35) Methyl acrylate | 4.330 | 55 | 8966 | 1.80 | ug/L # | 93 |
| 36) Propionitrile | 4.996 | 54 | 1451 | 1.41 | ug/L # | 35 |
| 37) Bromochloromethane | 4.524 | 49 | 6679 | 2.16 | ug/L | 99 |
| 38) Tetrahydrofuran | 4.556 | 42 | 3293 | 1.43 | ug/L | 95 |
| 39) Methacrylonitrile | 4.514 | 41 | 8140 | 1.96 | ug/L # | 80 |
| 40) Chloroform | 4.682 | 83 | 12858 | 1.99 | ug/L | 99 |
| 41) Cyclohexane | 4.996 | 56 | 12480 | 1.94 | ug/L # | 84 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP10.D
Acq On : 13 Sep 2018 06:43 pm
Operator : LNS
Sample : 2PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 09:56:07 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:56:01 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) | 1,1,1-Trichloroethane | 4.902 | 97 | 9163 | 1.95 ug/L | 97 |
| 45) | Carbon tetrachloride | 5.133 | 117 | 7069 | 1.86 ug/L | 99 |
| 46) | 1,1-Dichloropropene | 5.164 | 75 | 8119 | 1.80 ug/L | 98 |
| 48) | 1,2-Dichloroethane | 5.599 | 62 | 10739 | 1.97 ug/L | 98 |
| 49) | Benzene | 5.473 | 78 | 27804 | 1.89 ug/L | 97 |
| 50) | Tertiaryamylmethylether | 5.746 | 73 | 13603 | 1.61 ug/L # | 74 |
| 51) | Isobutyl Alcohol | 5.662 | 43 | 4877 | 1.23 ug/L # | 66 |
| 52) | Heptane | 6.066 | 43 | 4640 | 2.00 ug/L | 91 |
| 53) | 1,4-Dioxane | 6.989 | 88 | 21065 | 195.37 ug/L | 97 |
| 54) | Methylcyclohexane | 6.837 | 83 | 7947 | 1.84 ug/L | 96 |
| 55) | n-Butanol | 6.632 | 56 | 529 | 24.69 ug/L # | 34 |
| 56) | Trichloroethene | 6.580 | 130 | 7085 | 1.97 ug/L | 95 |
| 57) | 1,2-Dichloropropane | 6.894 | 63 | 7534 | 2.00 ug/L | 90 |
| 58) | Dibromomethane | 6.983 | 93 | 5108 | 2.02 ug/L | 93 |
| 59) | Methyl methacrylate | 7.010 | 41 | 7136 | 1.76 ug/L | 91 |
| 60) | Bromodichloromethane | 7.183 | 83 | 8152 | 1.83 ug/L | 96 |
| 61) | 2-Chloroethyl vinyl ether | 7.481 | 43 | 2157 | 1.98 ug/L # | 63 |
| 62) | 2-Nitropropane | 7.408 | 43 | 2436 | 1.67 ug/L # | 64 |
| 63) | cis-1,3-Dichloropropene | 7.597 | 75 | 8798 | 1.76 ug/L | 96 |
| 65) | 4-Methyl-2-pentanone | 7.738 | 43 | 9239 | 1.69 ug/L | 94 |
| 67) | Toluene | 7.859 | 91 | 29106 | 1.89 ug/L | 96 |
| 68) | trans-1,3-Dichloropropene | 8.063 | 75 | 7374 | 1.86 ug/L | 89 |
| 69) | Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) | Ethyl methacrylate | 8.121 | 69 | 7459 | 1.81 ug/L | 90 |
| 71) | 1,1,2-Trichloroethane | 8.205 | 97 | 7473 | 1.95 ug/L | 95 |
| 72) | Tetrachloroethene | 8.247 | 166 | 7094 | 1.94 ug/L | 96 |
| 73) | 1,3-Dichloropropane | 8.320 | 76 | 12573 | 1.91 ug/L | 100 |
| 74) | 2-Hexanone | 8.373 | 43 | 6978 | 1.70 ug/L | 96 |
| 75) | Chlorodibromomethane | 8.467 | 129 | 5707 | 1.86 ug/L | 96 |
| 76) | Butyl acetate | 8.462 | 43 | 9823 | 1.52 ug/L # | 90 |
| 77) | 1,2-Dibromoethane | 8.541 | 107 | 6897 | 2.01 ug/L | 99 |
| 78) | Chlorobenzene | 8.860 | 112 | 18147 | 1.91 ug/L | 88 |
| 79) | 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 5886 | 1.88 ug/L | 93 |
| 80) | Ethylbenzene | 8.923 | 91 | 26113 | 1.89 ug/L | 100 |
| 81) | m/p-Xylene | 9.002 | 91 | 38734 | 3.68 ug/L | 99 |
| 82) | Styrene | 9.248 | 104 | 13338 | 1.76 ug/L | 96 |
| 83) | o-Xylene | 9.233 | 91 | 19815 | 1.85 ug/L | 98 |
| 84) | Cyclohexanone | 9.500 | 55 | 2923 | 9.64 ug/L # | 85 |
| 85) | Bromoform | 9.359 | 173 | 3852 | 1.82 ug/L | 97 |
| 86) | Isopropylbenzene | 9.442 | 105 | 22119 | 1.84 ug/L | 98 |
| 88) | Bromobenzene | 9.621 | 77 | 17415 | 1.94 ug/L | 99 |
| 89) | 1,2,3-Trichloropropane | 9.652 | 110 | 4188 | 2.10 ug/L | 98 |
| 90) | trans-1,4-Dichloro-2-b... | 9.636 | 53 | 3042 | 1.83 ug/L | 87 |
| 91) | n-Propylbenzene | 9.668 | 91 | 26418 | 1.67 ug/L | 100 |
| 92) | 2-Chlorotoluene | 9.720 | 91 | 17154 | 1.73 ug/L | 97 |
| 93) | 4-Chlorotoluene | 9.788 | 91 | 19362 | 1.70 ug/L | 99 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 17237 | 1.82 ug/L | 98 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 10366 | 1.70 ug/L | 91 |
| 96) | 1,2,4-Trimethylbenzene | 9.961 | 105 | 17994 | 1.83 ug/L | 84 |
| 97) | sec-Butylbenzene | 10.045 | 105 | 19797 | 1.81 ug/L | 97 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.621 | 83 | 13018 | 2.07 ug/L | 96 |
| 100) | 1,3-Dichlorobenzene | 10.114 | 146 | 12063 | 1.84 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 16045 | 1.82 ug/L | 99 |
| 102) | 1,4-Dichlorobenzene | 10.166 | 146 | 12922 | 1.88 ug/L | 93 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 18435 | 1.69 ug/L | 98 |
| 104) | Benzyl chloride | 10.224 | 91 | 7539 | 1.89 ug/L | 91 |
| 105) | 1,2-Dichlorobenzene | 10.349 | 146 | 12189 | 1.89 ug/L | 99 |
| 106) | n-Butylbenzene | 10.323 | 91 | 14759 | 1.89 ug/L | 95 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP10.D
Acq On : 13 Sep 2018 06:43 pm
Operator : LNS
Sample : 2PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

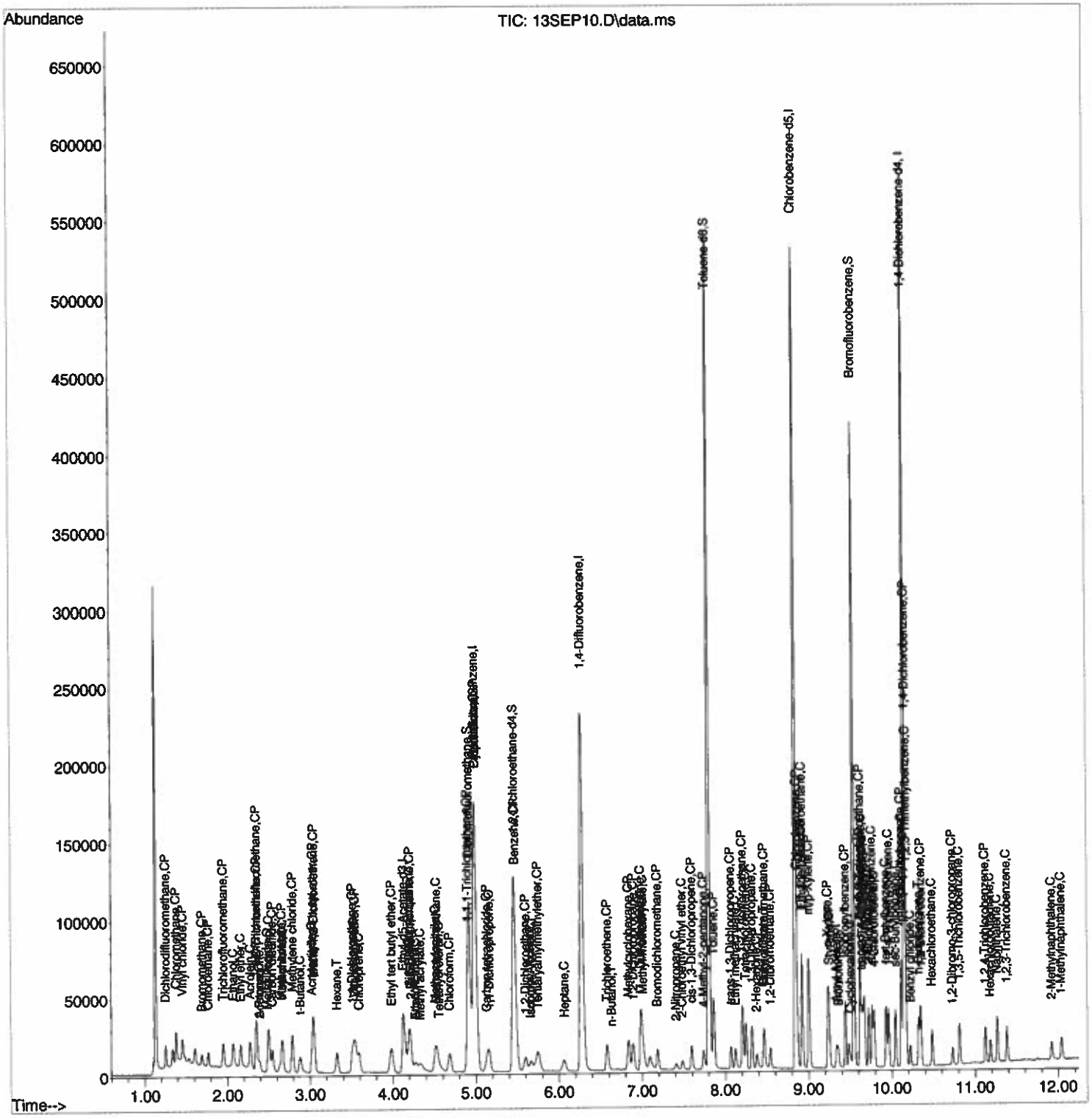
Quant Time: Sep 14 09:56:07 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:56:01 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 107) Hexachloroethane | 10.481 | 117 | 3133 | 2.07 | ug/L | | 90 |
| 108) 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 2239 | 1.89 | ug/L | | 95 |
| 109) 1,3,5-Trichlorobenzene | 10.811 | 180 | 6930 | 1.79 | ug/L | | 97 |
| 110) 1,2,4-Trichlorobenzene | 11.125 | 180 | 6146 | 1.90 | ug/L | | 99 |
| 111) Hexachlorobutadiene | 11.183 | 225 | 2694 | 1.96 | ug/L | | 92 |
| 112) Naphthalene | 11.267 | 128 | 18890 | 1.83 | ug/L | | 99 |
| 113) 1,2,3-Trichlorobenzene | 11.382 | 180 | 6195 | 1.88 | ug/L | | 93 |
| 114) 2-Methylnaphthalene | 11.922 | 142 | 5958 | 1.74 | ug/L | | 89 |
| 115) 1-Methylnaphthalene | 12.038 | 142 | 6590 | 1.78 | ug/L | | 89 |
| 117) 2-Propanone | 2.391 | 43 | 7165 | 2.07 | ug/L | | 93 |
| 118) Acetic Ether | 4.273 | 43 | 10698 | 1.84 | ug/L | # | 97 |
| 119) Isopropyl Acetate | 5.657 | 61 | 2455 | 1.93 | ug/L | # | 96 |
| 120) Amyl Acetate | 9.338 | 43 | 7174 | 1.54 | ug/L | | 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP10.D
Acq On : 13 Sep 2018 06:43 pm
Operator : LNS
Sample : 2PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 09:56:07 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WG00913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:56:01 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP11.D
Acq On : 13 Sep 2018 07:00 pm
Operator : LNS
Sample : 4PPB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 08:22:26 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 158836 | 20.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 254180 | 20.00 | ug/L | | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 242399 | 20.00 | ug/L | | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 114866 | 20.00 | ug/L | # | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 71330 | 20.00 | ug/L | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) Dibromofluoromethane | 4.923 | 111 | 93102 | 20.92 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 104.60% | | | | |
| 47) 1,2-Dichloroethane-d4 | 5.463 | 65 | 113528 | 21.00 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 105.00% | | | | |
| 66) Toluene-d8 | 7.801 | 98 | 326983 | 19.78 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 98.90% | | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 120648 | 20.37 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 101.85% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 18802 | 5.28 | ug/L | | 98 |
| 3) Chloromethane | 1.379 | 50 | 23770 | 4.22 | ug/L | | 99 |
| 4) Vinyl chloride | 1.457 | 62 | 16741 | 4.22 | ug/L | | 93 |
| 5) Bromomethane | 1.688 | 96 | 4806 | 3.28 | ug/L | | 92 |
| 6) Chloroethane | 1.767 | 64 | 12062 | 4.28 | ug/L | | 91 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 19619 | 4.06 | ug/L | | 98 |
| 8) Ethanol | 2.071 | 45 | 28391 | 82.59 | ug/L | | 98 |
| 9) Ethyl ether | 2.160 | 59 | 11812 | 3.80 | ug/L | | 99 |
| 10) Acrolein | 2.275 | 56 | 19458 | 26.73 | ug/L | | 99 |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 19062 | 4.12 | ug/L | | 91 |
| 12) 1,1,2-Trichlorotrifluo... | 2.354 | 151 | 9024 | 4.96 | ug/L | | 96 |
| 13) Methyl iodide | 2.485 | 142 | 2766 | 3.79 | ug/L | | 85 |
| 14) Acetone | 2.391 | 43 | 13097 | 4.29 | ug/L | | 98 |
| 15) 2-Propanol | 2.501 | 45 | 55557 | 62.50 | ug/L | # | 89 |
| 16) Chloroprene | 3.591 | 53 | 15490 | 3.39 | ug/L | | 98 |
| 17) Carbon disulfide | 2.548 | 76 | 31131 | 3.63 | ug/L | | 98 |
| 18) Allyl chloride | 2.668 | 41 | 22326 | 4.30 | ug/L | | 96 |
| 19) Methyl acetate | 2.658 | 43 | 22188 | 3.64 | ug/L | | 96 |
| 20) Acetonitrile | 2.668 | 41 | 22326 | 4.45 | ug/L | # | 84 |
| 21) Methylene chloride | 2.789 | 49 | 21713 | 4.06 | ug/L | | 99 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 18953 | 3.64 | ug/L | | 99 |
| 23) t-Butanol | 2.883 | 59 | 21084 | 19.17 | ug/L | # | 92 |
| 24) Acrylonitrile | 3.025 | 53 | 11400 | 3.66 | ug/L | | 98 |
| 25) Methyl tert-butyl ether | 3.041 | 73 | 37745 | 3.88 | ug/L | | 100 |
| 26) Hexane | 3.324 | 57 | 11191 | 3.35 | ug/L | | 98 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 26195 | 3.78 | ug/L | | 98 |
| 28) Diisopropyl ether | 3.544 | 45 | 37455 | 3.95 | ug/L | | 88 |
| 29) Vinyl acetate | 3.523 | 86 | 1740 | 2.89 | ug/L | # | 1 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 34049 | 3.91 | ug/L | | 99 |
| 31) 2,2-Dichloropropane | 4.199 | 77 | 14532 | 3.42 | ug/L | | 96 |
| 32) cis-1,2-Dichloroethene | 4.205 | 61 | 20465 | 3.54 | ug/L | | 96 |
| 33) 2-Butanone | 4.215 | 43 | 10773 | 2.98 | ug/L | | 96 |
| 34) Ethyl Acetate | 4.273 | 43 | 26972m | 4.04 | ug/L | | |
| 35) Methyl acrylate | 4.330 | 55 | 19254m | 3.40 | ug/L | | |
| 36) Propionitrile | 5.002 | 54 | 3120 | 3.90 | ug/L | # | 95 |
| 37) Bromochloromethane | 4.524 | 49 | 12384 | 3.97 | ug/L | | 97 |
| 38) Tetrahydrofuran | 4.551 | 42 | 9644 | 3.75 | ug/L | | 90 |
| 39) Methacrylonitrile | 4.503 | 41 | 11392 | 3.14 | ug/L | # | 89 |
| 40) Chloroform | 4.682 | 83 | 25319 | 3.86 | ug/L | | 98 |
| 41) Cyclohexane | 4.996 | 56 | 20547 | 3.51 | ug/L | # | 92 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP11.D
Acq On : 13 Sep 2018 07:00 pm
Operator : LNS
Sample : 4PPB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 08:22:26 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 43) 1,1,1-Trichloroethane | 4.902 | 97 | 17927 | 3.71 ug/L | 96 |
| 45) Carbon tetrachloride | 5.133 | 117 | 14023 | 3.76 ug/L | 99 |
| 46) 1,1-Dichloropropene | 5.159 | 75 | 16008 | 3.53 ug/L | 97 |
| 48) 1,2-Dichloroethane | 5.599 | 62 | 21491 | 3.85 ug/L | 99 |
| 49) Benzene | 5.473 | 78 | 54137 | 3.63 ug/L | 97 |
| 50) Tertiaryamylmethylether | 5.746 | 73 | 29735 | 3.82 ug/L | 92 |
| 51) Isobutyl Alcohol | 5.746 | 43 | 12129m | 4.42 ug/L | |
| 52) Heptane | 6.055 | 43 | 8393 | 3.27 ug/L | 90 |
| 53) 1,4-Dioxane | 6.989 | 88 | 39535 | 317.42 ug/L | 93 |
| 54) Methylcyclohexane | 6.837 | 83 | 15086 | 3.41 ug/L | 96 |
| 55) n-Butanol | 6.606 | 56 | 3377 | 35.83 ug/L # | 82 |
| 56) Trichloroethene | 6.580 | 130 | 13669 | 3.66 ug/L | 98 |
| 57) 1,2-Dichloropropane | 6.889 | 63 | 14301 | 3.73 ug/L | 95 |
| 58) Dibromomethane | 6.983 | 93 | 9753 | 3.87 ug/L | 96 |
| 59) Methyl methacrylate | 7.004 | 41 | 13638 | 3.15 ug/L | 98 |
| 60) Bromodichloromethane | 7.183 | 83 | 16071 | 3.59 ug/L | 96 |
| 61) 2-Chloroethyl vinyl ether | 7.482 | 43 | 3186 | 2.47 ug/L # | 43 |
| 62) 2-Nitropropane | 7.408 | 43 | 4079 | 2.71 ug/L # | 82 |
| 63) cis-1,3-Dichloropropene | 7.592 | 75 | 17407 | 3.30 ug/L | 96 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 19166 | 3.36 ug/L | 99 |
| 67) Toluene | 7.859 | 91 | 55084 | 3.58 ug/L | 99 |
| 68) trans-1,3-Dichloropropene | 8.064 | 75 | 14331 | 3.27 ug/L | 99 |
| 69) Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) Ethyl methacrylate | 8.121 | 69 | 15898 | 2.99 ug/L | 97 |
| 71) 1,1,2-Trichloroethane | 8.205 | 97 | 14590 | 3.68 ug/L | 98 |
| 72) Tetrachloroethene | 8.247 | 166 | 13928 | 3.70 ug/L | 97 |
| 73) 1,3-Dichloropropane | 8.320 | 76 | 24530 | 3.70 ug/L | 100 |
| 74) 2-Hexanone | 8.373 | 43 | 15011 | 3.34 ug/L | 96 |
| 75) Chlorodibromomethane | 8.467 | 129 | 11322 | 3.12 ug/L | 99 |
| 76) Butyl acetate | 8.457 | 43 | 21952 | 3.10 ug/L | 97 |
| 77) 1,2-Dibromoethane | 8.541 | 107 | 13680 | 3.74 ug/L | 96 |
| 78) Chlorobenzene | 8.860 | 112 | 35476 | 3.64 ug/L | 92 |
| 79) 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 11266 | 3.52 ug/L | 99 |
| 80) Ethylbenzene | 8.923 | 91 | 51237 | 3.35 ug/L | 100 |
| 81) m/p-Xylene | 9.002 | 91 | 76274 | 6.55 ug/L | 99 |
| 82) Styrene | 9.248 | 104 | 28088 | 2.94 ug/L | 97 |
| 83) o-Xylene | 9.233 | 91 | 38399 | 3.19 ug/L | 100 |
| 84) Cyclohexanone | 9.500 | 55 | 6122 | 22.19 ug/L # | 90 |
| 85) Bromoform | 9.353 | 173 | 7693 | 3.24 ug/L | 100 |
| 86) Isopropylbenzene | 9.442 | 105 | 43733 | 3.18 ug/L | 99 |
| 88) Bromobenzene | 9.621 | 77 | 34832 | 3.67 ug/L | 98 |
| 89) 1,2,3-Trichloropropane | 9.652 | 110 | 7444 | 3.70 ug/L | 94 |
| 90) trans-1,4-Dichloro-2-b... | 9.636 | 53 | 6243 | 3.41 ug/L | 83 |
| 91) n-Propylbenzene | 9.668 | 91 | 54282 | 3.25 ug/L | 100 |
| 92) 2-Chlorotoluene | 9.720 | 91 | 35095 | 3.41 ug/L | 100 |
| 93) 4-Chlorotoluene | 9.788 | 91 | 40375 | 3.47 ug/L | 99 |
| 94) 1,3,5-Trimethylbenzene | 9.762 | 105 | 34833 | 3.19 ug/L | 100 |
| 95) tert-Butylbenzene | 9.930 | 91 | 23762 | 3.68 ug/L | 93 |
| 96) 1,2,4-Trimethylbenzene | 9.961 | 105 | 36539 | 3.07 ug/L | 97 |
| 97) sec-Butylbenzene | 10.045 | 105 | 39798 | 3.19 ug/L | 99 |
| 99) 1,1,2,2-Tetrachloroethane | 9.621 | 83 | 24509 | 3.72 ug/L | 100 |
| 100) 1,3-Dichlorobenzene | 10.114 | 146 | 24732 | 3.64 ug/L | 99 |
| 101) p-Isopropyltoluene | 10.119 | 119 | 32330 | 3.03 ug/L | 98 |
| 102) 1,4-Dichlorobenzene | 10.166 | 146 | 25332 | 3.55 ug/L | 95 |
| 103) 1,2,3-Trimethylbenzene | 10.171 | 105 | 39875 | 3.58 ug/L | 99 |
| 104) Benzyl chloride | 10.218 | 91 | 13753 | 2.85 ug/L | 96 |
| 105) 1,2-Dichlorobenzene | 10.349 | 146 | 24356 | 3.73 ug/L | 98 |
| 106) n-Butylbenzene | 10.323 | 91 | 28645 | 3.20 ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP11.D
Acq On : 13 Sep 2018 07:00 pm
Operator : LNS
Sample : 4PPB
Misc :
ALS Vial : 8 Sample Multiplier: 1

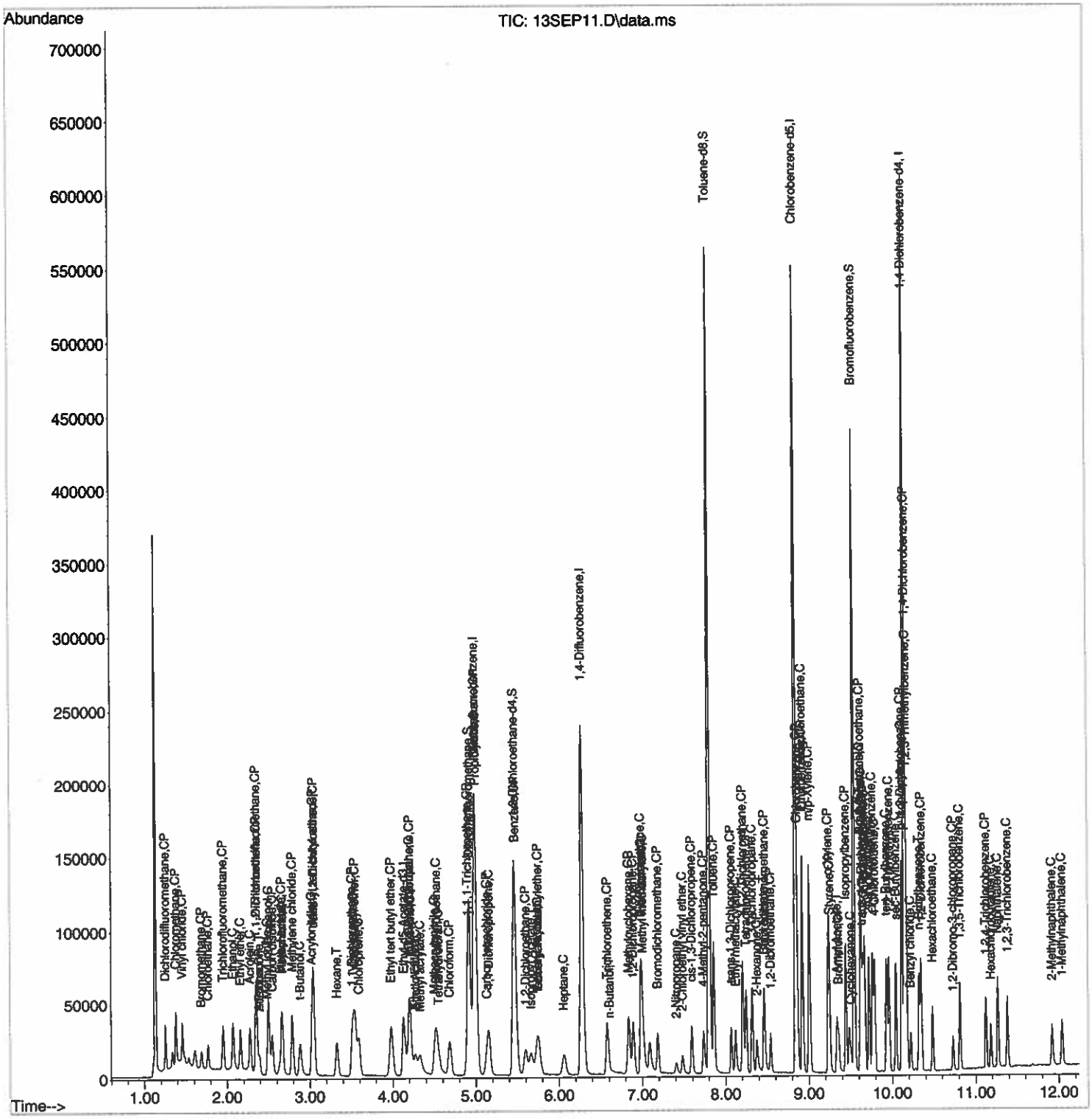
Quant Time: Sep 14 08:22:26 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 107) Hexachloroethane | 10.481 | 117 | 5346 | 3.16 ug/L | 95 |
| 108) 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 4666 | 3.32 ug/L | 98 |
| 109) 1,3,5-Trichlorobenzene | 10.811 | 180 | 13847 | 3.52 ug/L | 98 |
| 110) 1,2,4-Trichlorobenzene | 11.125 | 180 | 12965 | 3.45 ug/L | 95 |
| 111) Hexachlorobutadiene | 11.183 | 225 | 4707 | 3.35 ug/L | 93 |
| 112) Naphthalene | 11.267 | 128 | 39761 | 2.70 ug/L | 99 |
| 113) 1,2,3-Trichlorobenzene | 11.382 | 180 | 12377 | 3.27 ug/L | 99 |
| 114) 2-Methylnaphthalene | 11.917 | 142 | 13138 | 2.69 ug/L | 97 |
| 115) 1-Methylnaphthalene | 12.038 | 142 | 14217 | 2.52 ug/L | 99 |
| 117) 2-Propanone | 2.391 | 43 | 13097 | 4.41 ug/L | 98 |
| 118) Acetic Ether | 4.273 | 43 | 21925 | 3.24 ug/L # | 96 |
| 119) Isopropyl Acetate | 5.662 | 61 | 4905 | 3.26 ug/L # | 83 |
| 120) Amyl Acetate | 9.338 | 43 | 16689 | 3.08 ug/L | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP11.D
Acq On : 13 Sep 2018 07:00 pm
Operator : LNS
Sample : 4PPB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 08:22:26 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WG00910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP12.D
Acq On : 13 Sep 2018 07:16 pm
Operator : LNS
Sample : 10PPB
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 08:24:35 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 163334 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.275 | 114 | 261208 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 247128 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 120766 | 20.00 | ug/L | # 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.126 | 46 | 73313 | 20.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) Dibromofluoromethane | 4.917 | 111 | 92363 | 20.19 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 100.95% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.457 | 65 | 112993 | 20.34 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 101.70% | | | |
| 66) Toluene-d8 | 7.806 | 98 | 339548 | 20.15 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 100.75% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 126812 | 21.00 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 105.00% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 51666 | 14.77 | ug/L | 98 |
| 3) Chloromethane | 1.378 | 50 | 65862 | 11.78 | ug/L | 99 |
| 4) Vinyl chloride | 1.457 | 62 | 47808 | 12.20 | ug/L | 99 |
| 5) Bromomethane | 1.688 | 96 | 12217 | 8.76 | ug/L | 96 |
| 6) Chloroethane | 1.766 | 64 | 27412 | 10.93 | ug/L | 97 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 54944 | 11.74 | ug/L | 99 |
| 8) Ethanol | 2.071 | 45 | 74255 | 217.15 | ug/L | 99 |
| 9) Ethyl ether | 2.160 | 59 | 32927 | 10.31 | ug/L | 99 |
| 10) Acrolein | 2.275 | 56 | 44620 | 63.38 | ug/L | 98 |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 54632 | 11.49 | ug/L | 93 |
| 12) 1,1,2-Trichlorotrifluo... | 2.354 | 151 | 25751 | 13.77 | ug/L | 98 |
| 13) Methyl iodide | 2.485 | 142 | 7191 | 16.71 | ug/L | 94 |
| 14) Acetone | 2.390 | 43 | 33374 | 11.40 | ug/L | 94 |
| 15) 2-Propanol | 2.500 | 45 | 149529 | 179.06 | ug/L | 93 |
| 16) Chloroprene | 3.591 | 53 | 48290 | 10.29 | ug/L | 98 |
| 17) Carbon disulfide | 2.548 | 76 | 85753 | 9.72 | ug/L | 99 |
| 18) Allyl chloride | 2.668 | 41 | 59076 | 11.07 | ug/L | 99 |
| 19) Methyl acetate | 2.658 | 43 | 59617 | 9.78 | ug/L | 99 |
| 20) Acetonitrile | 2.668 | 41 | 59076 | 11.46 | ug/L # | 87 |
| 21) Methylene chloride | 2.789 | 49 | 55204 | 10.77 | ug/L | 98 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 52733 | 9.85 | ug/L | 97 |
| 23) t-Butanol | 2.883 | 59 | 59242 | 56.54 | ug/L | 96 |
| 24) Acrylonitrile | 3.019 | 53 | 32875 | 10.27 | ug/L | 98 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 105305 | 10.54 | ug/L | 100 |
| 26) Hexane | 3.324 | 57 | 33814 | 9.84 | ug/L | 98 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 73256 | 10.27 | ug/L | 100 |
| 28) Diisopropyl ether | 3.544 | 45 | 102609 | 10.13 | ug/L | 91 |
| 29) Vinyl acetate | 3.523 | 86 | 6850 | 9.21 | ug/L # | 89 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 93350 | 10.43 | ug/L | 99 |
| 31) 2,2-Dichloropropane | 4.204 | 77 | 43023 | 9.83 | ug/L | 97 |
| 32) cis-1,2-Dichloroethene | 4.204 | 61 | 59848 | 10.06 | ug/L | 97 |
| 33) 2-Butanone | 4.210 | 43 | 30888 | 8.13 | ug/L | 93 |
| 34) Ethyl Acetate | 4.267 | 43 | 79967m | 11.64 | ug/L | |
| 35) Methyl acrylate | 4.325 | 55 | 59624m | 9.51 | ug/L | |
| 36) Propionitrile | 4.991 | 54 | 8387 | 11.45 | ug/L | 82 |
| 37) Bromochloromethane | 4.524 | 49 | 34908 | 10.88 | ug/L | 99 |
| 38) Tetrahydrofuran | 4.550 | 42 | 25868 | 9.30 | ug/L | 100 |
| 39) Methacrylonitrile | 4.498 | 41 | 52169m | 13.34 | ug/L | |
| 40) Chloroform | 4.687 | 83 | 70958 | 10.51 | ug/L | 99 |
| 41) Cyclohexane | 4.996 | 56 | 55646 | 10.01 | ug/L | 97 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP12.D
Acq On : 13 Sep 2018 07:16 pm
Operator : LNS
Sample : 10PPB
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 08:24:35 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 43) 1,1,1-Trichloroethane | 4.902 | 97 | 51845 | 10.43 ug/L | 99 |
| 45) Carbon tetrachloride | 5.132 | 117 | 41786 | 10.49 ug/L | 99 |
| 46) 1,1-Dichloropropene | 5.159 | 75 | 48227 | 10.36 ug/L | 99 |
| 48) 1,2-Dichloroethane | 5.594 | 62 | 57164 | 9.96 ug/L | 99 |
| 49) Benzene | 5.473 | 78 | 157188 | 10.26 ug/L | 99 |
| 50) Tertiaryamylmethylether | 5.746 | 73 | 84481 | 10.03 ug/L | 95 |
| 51) Isobutyl Alcohol | 5.741 | 43 | 32686m | 11.60 ug/L | |
| 52) Heptane | 6.060 | 43 | 24214 | 9.18 ug/L | 93 |
| 53) 1,4-Dioxane | 6.983 | 88 | 117091 | 914.82 ug/L | 98 |
| 54) Methylcyclohexane | 6.836 | 83 | 46515 | 10.22 ug/L | 97 |
| 55) n-Butanol | 6.580 | 56 | 19852m | 113.35 ug/L | |
| 56) Trichloroethene | 6.580 | 130 | 38804 | 10.12 ug/L | 99 |
| 57) 1,2-Dichloropropane | 6.889 | 63 | 41628 | 10.57 ug/L | 98 |
| 58) Dibromomethane | 6.983 | 93 | 27962 | 10.79 ug/L | 96 |
| 59) Methyl methacrylate | 7.004 | 41 | 42853 | 9.04 ug/L | 99 |
| 60) Bromodichloromethane | 7.182 | 83 | 46860 | 10.18 ug/L | 99 |
| 61) 2-Chloroethyl vinyl ether | 7.476 | 43 | 10796 | 8.34 ug/L # | 47 |
| 62) 2-Nitropropane | 7.403 | 43 | 13804 | 8.93 ug/L | 96 |
| 63) cis-1,3-Dichloropropene | 7.591 | 75 | 51480 | 8.90 ug/L | 97 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 56775 | 8.95 ug/L | 100 |
| 67) Toluene | 7.859 | 91 | 160192 | 10.22 ug/L | 98 |
| 68) trans-1,3-Dichloropropene | 8.063 | 75 | 42509 | 8.87 ug/L | 99 |
| 69) Chloropicrin | 8.063 | 117 | 458 | No Calib | |
| 70) Ethyl methacrylate | 8.116 | 69 | 48148 | 8.25 ug/L | 98 |
| 71) 1,1,2-Trichloroethane | 8.205 | 97 | 41342 | 10.23 ug/L | 99 |
| 72) Tetrachloroethene | 8.247 | 166 | 40285 | 10.50 ug/L | 98 |
| 73) 1,3-Dichloropropane | 8.320 | 76 | 69029 | 10.22 ug/L | 99 |
| 74) 2-Hexanone | 8.373 | 43 | 45439 | 9.32 ug/L | 98 |
| 75) Chlorodibromomethane | 8.467 | 129 | 34692 | 8.79 ug/L | 99 |
| 76) Butyl acetate | 8.457 | 43 | 69750 | 9.02 ug/L | 98 |
| 77) 1,2-Dibromoethane | 8.540 | 107 | 40276 | 15.80 ug/L | 98 |
| 78) Chlorobenzene | 8.860 | 112 | 102788 | 10.35 ug/L | 98 |
| 79) 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 32623 | 10.00 ug/L | 99 |
| 80) Ethylbenzene | 8.923 | 91 | 153898 | 9.86 ug/L | 100 |
| 81) m/p-Xylene | 9.002 | 91 | 238357 | 20.07 ug/L | 98 |
| 82) Styrene | 9.248 | 104 | 89821 | 8.65 ug/L | 97 |
| 83) o-Xylene | 9.232 | 91 | 121504 | 9.30 ug/L | 99 |
| 84) Cyclohexanone | 9.500 | 55 | 16766 | 56.05 ug/L | 96 |
| 85) Bromoform | 9.358 | 173 | 22513 | 9.30 ug/L | 99 |
| 86) Isopropylbenzene | 9.442 | 105 | 139155 | 9.24 ug/L | 100 |
| 88) Bromobenzene | 9.620 | 77 | 98713 | 10.19 ug/L | 99 |
| 89) 1,2,3-Trichloropropane | 9.647 | 110 | 23176 | 11.29 ug/L | 98 |
| 90) trans-1,4-Dichloro-2-b... | 9.636 | 53 | 17841 | 9.57 ug/L | 85 |
| 91) n-Propylbenzene | 9.668 | 91 | 170598 | 9.40 ug/L | 100 |
| 92) 2-Chlorotoluene | 9.720 | 91 | 108591 | 10.34 ug/L | 100 |
| 93) 4-Chlorotoluene | 9.788 | 91 | 122755 | 10.34 ug/L | 100 |
| 94) 1,3,5-Trimethylbenzene | 9.762 | 105 | 113336 | 9.48 ug/L | 97 |
| 95) tert-Butylbenzene | 9.930 | 91 | 64844 | 9.86 ug/L | 95 |
| 96) 1,2,4-Trimethylbenzene | 9.961 | 105 | 114828 | 8.96 ug/L | 100 |
| 97) sec-Butylbenzene | 10.045 | 105 | 129260 | 9.45 ug/L | 100 |
| 99) 1,1,2,2-Tetrachloroethane | 9.620 | 83 | 69661 | 10.04 ug/L | 99 |
| 100) 1,3-Dichlorobenzene | 10.113 | 146 | 71092 | 9.95 ug/L | 99 |
| 101) p-Isopropyltoluene | 10.119 | 119 | 106323 | 8.97 ug/L | 100 |
| 102) 1,4-Dichlorobenzene | 10.166 | 146 | 72288 | 9.64 ug/L | 97 |
| 103) 1,2,3-Trimethylbenzene | 10.171 | 105 | 122888 | 10.48 ug/L | 100 |
| 104) Benzyl chloride | 10.218 | 91 | 44959 | 7.91 ug/L | 96 |
| 105) 1,2-Dichlorobenzene | 10.344 | 146 | 70763 | 10.30 ug/L | 99 |
| 106) n-Butylbenzene | 10.323 | 91 | 92714 | 9.86 ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP12.D
Acq On : 13 Sep 2018 07:16 pm
Operator : LNS
Sample : 10PPB
Misc :
ALS Vial : 9 Sample Multiplier: 1

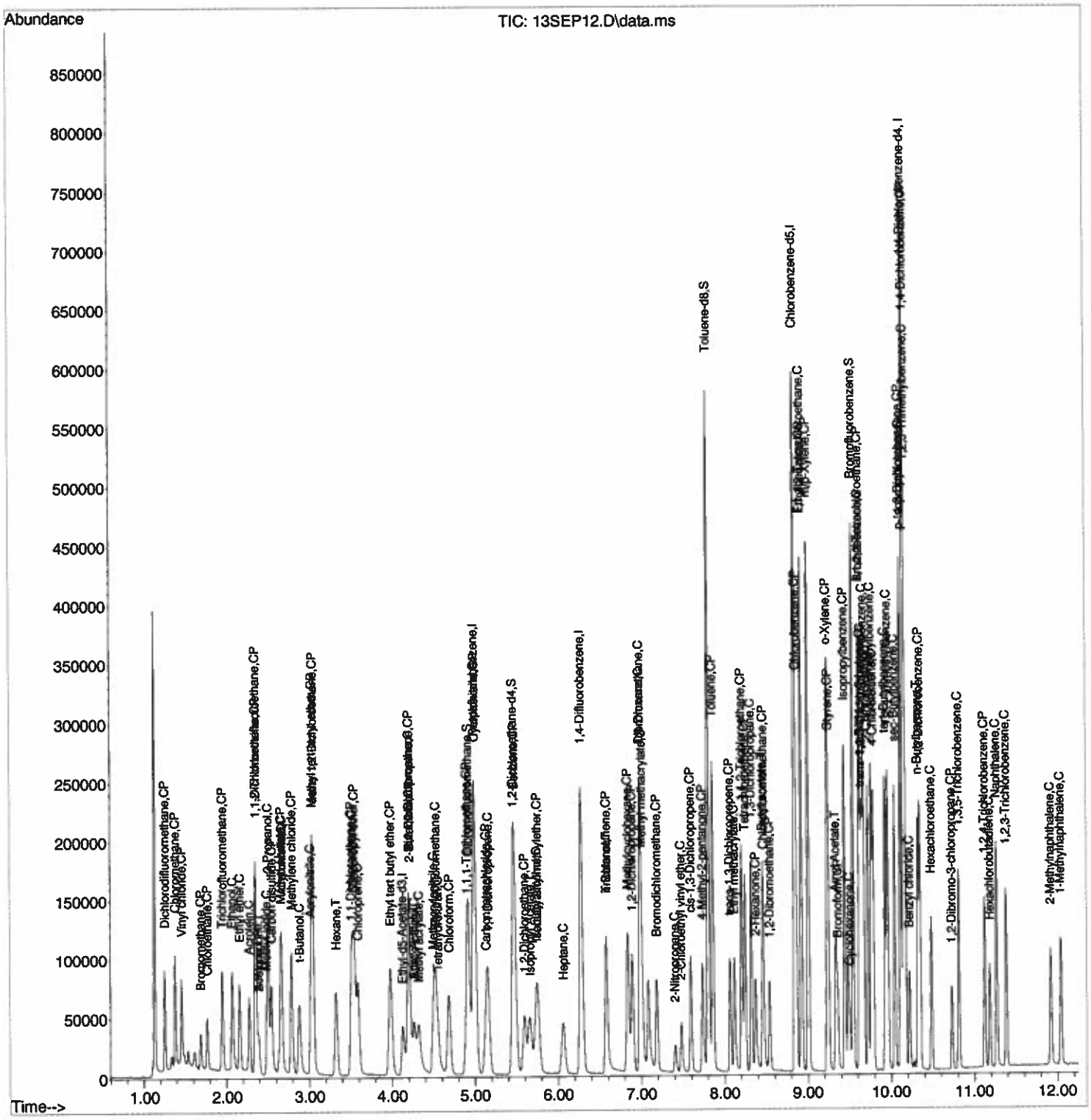
Quant Time: Sep 14 08:24:35 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 107) Hexachloroethane | 10.480 | 117 | 16859 | 8.78 ug/L | 97 |
| 108) 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 13804 | 9.35 ug/L | 98 |
| 109) 1,3,5-Trichlorobenzene | 10.811 | 180 | 40858 | 9.87 ug/L | 99 |
| 110) 1,2,4-Trichlorobenzene | 11.125 | 180 | 36383 | 9.22 ug/L | 97 |
| 111) Hexachlorobutadiene | 11.183 | 225 | 14184 | 9.60 ug/L | 97 |
| 112) Naphthalene | 11.267 | 128 | 123134 | 7.26 ug/L | 100 |
| 113) 1,2,3-Trichlorobenzene | 11.382 | 180 | 37850 | 9.51 ug/L | 99 |
| 114) 2-Methylnaphthalene | 11.917 | 142 | 45789 | 8.10 ug/L | 100 |
| 115) 1-Methylnaphthalene | 12.038 | 142 | 48029 | 7.33 ug/L | 100 |
| 117) 2-Propanone | 2.390 | 43 | 33374 | 11.70 ug/L | 94 |
| 118) Acetic Ether | 4.267 | 43 | 70364 | 10.11 ug/L | 99 |
| 119) Isopropyl Acetate | 5.662 | 61 | 15565 | 8.91 ug/L | 95 |
| 120) Amyl Acetate | 9.332 | 43 | 50270 | 8.44 ug/L | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP12.D
Acq On : 13 Sep 2018 07:16 pm
Operator : LNS
Sample : 10PPB
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 08:24:35 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WG00910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP13.D
Acq On : 13 Sep 2018 07:33 pm
Operator : LNS
Sample : 40PPB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 08:27:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 169784 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 269537 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 253911 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 124829 | 20.00 | ug/L | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 77686 | 20.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 92053 | 19.50 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 97.50% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 111647 | 19.48 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 97.40% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 355352 | 20.52 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 102.60% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 130328 | 21.01 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 105.05% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 221120 | 62.09 | ug/L | 98 |
| 3) Chloromethane | 1.379 | 50 | 291589 | 50.96 | ug/L | 99 |
| 4) Vinyl chloride | 1.457 | 62 | 201217 | 50.25 | ug/L | 100 |
| 5) Bromomethane | 1.677 | 96 | 49566 | 35.46 | ug/L | 99 |
| 6) Chloroethane | 1.761 | 64 | 115637 | 48.05 | ug/L | 99 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 222460 | 48.31 | ug/L | 100 |
| 8) Ethanol | 2.076 | 45 | 289271 | 843.99 | ug/L | 99 |
| 9) Ethyl ether | 2.160 | 59 | 137706 | 41.47 | ug/L | 100 |
| 10) Acrolein | 2.275 | 56 | 190252 | 258.94 | ug/L | 99 |
| 11) 1,1-Dichloroethene | 2.349 | 61 | 233325 | 47.19 | ug/L | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 2.354 | 151 | 105444 | 54.25 | ug/L | 98 |
| 13) Methyl iodide | 2.485 | 142 | 32736 | 54.28 | ug/L | 94 |
| 14) Acetone | 2.391 | 43 | 131833 | 44.76 | ug/L | 95 |
| 15) 2-Propanol | 2.506 | 45 | 656817 | 787.54 | ug/L | 97 |
| 16) Chloroprene | 3.586 | 53 | 231362 | 47.41 | ug/L | 100 |
| 17) Carbon disulfide | 2.543 | 76 | 381973 | 41.65 | ug/L | 100 |
| 18) Allyl chloride | 2.663 | 41 | 261870 | 47.19 | ug/L | 99 |
| 19) Methyl acetate | 2.658 | 43 | 274893 | 43.90 | ug/L | 99 |
| 20) Acetonitrile | 2.663 | 41 | 261870 | 48.87 | ug/L # | 87 |
| 21) Methylene chloride | 2.784 | 49 | 225120 | 43.71 | ug/L | 99 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 231217 | 41.56 | ug/L | 99 |
| 23) t-Butanol | 2.883 | 59 | 247025 | 216.47 | ug/L | 98 |
| 24) Acrylonitrile | 3.014 | 53 | 146468 | 44.03 | ug/L | 99 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 481271 | 46.34 | ug/L | 100 |
| 26) Hexane | 3.324 | 57 | 150868 | 42.23 | ug/L | 100 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 309303 | 41.70 | ug/L | 99 |
| 28) Diisopropyl ether | 3.544 | 45 | 494500 | 44.43 | ug/L | 91 |
| 29) Vinyl acetate | 3.518 | 86 | 33736 | 38.45 | ug/L # | 94 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 436273 | 46.88 | ug/L | 99 |
| 31) 2,2-Dichloropropane | 4.205 | 77 | 189888 | 41.76 | ug/L | 99 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 264957 | 42.84 | ug/L | 99 |
| 33) 2-Butanone | 4.205 | 43 | 173674 | 43.56 | ug/L | 98 |
| 34) Ethyl Acetate | 4.262 | 43 | 336205m | 47.08 | ug/L | |
| 35) Methyl acrylate | 4.320 | 55 | 275562 | 40.99 | ug/L | 99 |
| 36) Propionitrile | 4.991 | 54 | 30315 | 46.35 | ug/L | 96 |
| 37) Bromochloromethane | 4.524 | 49 | 137904 | 41.33 | ug/L | 98 |
| 38) Tetrahydrofuran | 4.545 | 42 | 125579 | 42.37 | ug/L | 100 |
| 39) Methacrylonitrile | 4.493 | 41 | 174222 | 42.46 | ug/L | 99 |
| 40) Chloroform | 4.682 | 83 | 302098 | 43.04 | ug/L | 99 |
| 41) Cyclohexane | 4.996 | 56 | 241512 | 43.30 | ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP13.D
Acq On : 13 Sep 2018 07:33 pm
Operator : LNS
Sample : 40PPB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 08:27:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) | 1,1,1-Trichloroethane | 4.902 | 97 | 222549 | 43.39 ug/L | 99 |
| 45) | Carbon tetrachloride | 5.133 | 117 | 184810 | 44.22 ug/L | 99 |
| 46) | 1,1-Dichloropropene | 5.154 | 75 | 216839 | 45.15 ug/L | 99 |
| 48) | 1,2-Dichloroethane | 5.594 | 62 | 243166 | 41.04 ug/L | 100 |
| 49) | Benzene | 5.473 | 78 | 686465 | 43.42 ug/L | 100 |
| 50) | Tertiaryamylmethylether | 5.746 | 73 | 409026 | 43.55 ug/L | 99 |
| 51) | Isobutyl Alcohol | 5.746 | 43 | 127889 | 43.98 ug/L | 97 |
| 52) | Heptane | 6.061 | 43 | 112089 | 41.19 ug/L | 99 |
| 53) | 1,4-Dioxane | 6.983 | 88 | 537684 | 4071.06 ug/L | 99 |
| 54) | Methylcyclohexane | 6.837 | 83 | 217949 | 46.41 ug/L | 99 |
| 55) | n-Butanol | 6.574 | 56 | 101963 | 431.17 ug/L | 98 |
| 56) | Trichloroethene | 6.574 | 130 | 166144 | 42.00 ug/L | 98 |
| 57) | 1,2-Dichloropropane | 6.889 | 63 | 182105 | 44.82 ug/L | 99 |
| 58) | Dibromomethane | 6.978 | 93 | 121557 | 45.44 ug/L | 100 |
| 59) | Methyl methacrylate | 6.999 | 41 | 210656 | 41.99 ug/L | 98 |
| 60) | Bromodichloromethane | 7.183 | 83 | 211555 | 44.54 ug/L | 100 |
| 61) | 2-Chloroethyl vinyl ether | 7.476 | 43 | 52112 | 44.32 ug/L # | 62 |
| 62) | 2-Nitropropane | 7.403 | 43 | 67009 | 42.00 ug/L | 99 |
| 63) | cis-1,3-Dichloropropene | 7.592 | 75 | 250440 | 40.76 ug/L | 99 |
| 65) | 4-Methyl-2-pentanone | 7.733 | 43 | 283961 | 41.91 ug/L | 99 |
| 67) | Toluene | 7.859 | 91 | 717835 | 44.58 ug/L | 100 |
| 68) | trans-1,3-Dichloropropene | 8.063 | 75 | 227314 | 42.10 ug/L | 97 |
| 69) | Chloropicrin | 8.063 | 117 | 201828 | No Calib | |
| 70) | Ethyl methacrylate | 8.116 | 69 | 245669 | 39.68 ug/L | 100 |
| 71) | 1,1,2-Trichloroethane | 8.205 | 97 | 179638 | 43.26 ug/L | 100 |
| 72) | Tetrachloroethene | 8.247 | 166 | 168951 | 42.86 ug/L | 99 |
| 73) | 1,3-Dichloropropane | 8.315 | 76 | 306049 | 44.08 ug/L | 98 |
| 74) | 2-Hexanone | 8.368 | 43 | 214952 | 41.83 ug/L | 100 |
| 75) | Chlorodibromomethane | 8.467 | 129 | 171000 | 41.02 ug/L | 99 |
| 76) | Butyl acetate | 8.457 | 43 | 343639 | 42.14 ug/L | 99 |
| 77) | 1,2-Dibromoethane | 8.541 | 107 | 160804 | 69.02 ug/L | 97 |
| 78) | Chlorobenzene | 8.860 | 112 | 443159 | 43.41 ug/L | 99 |
| 79) | 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 146797 | 43.81 ug/L | 99 |
| 80) | Ethylbenzene | 8.923 | 91 | 735891 | 45.88 ug/L | 100 |
| 81) | m/p-Xylene | 9.002 | 91 | 1155400 | 94.67 ug/L | 99 |
| 82) | Styrene | 9.243 | 104 | 452022 | 41.36 ug/L | 100 |
| 83) | o-Xylene | 9.233 | 91 | 568072 | 41.29 ug/L | 99 |
| 84) | Cyclohexanone | 9.500 | 55 | 71212 | 225.11 ug/L | 96 |
| 85) | Bromoform | 9.353 | 173 | 108898 | 43.78 ug/L | 100 |
| 86) | Isopropylbenzene | 9.442 | 105 | 677899 | 42.59 ug/L | 100 |
| 88) | Bromobenzene | 9.621 | 77 | 430046 | 43.22 ug/L | 100 |
| 89) | 1,2,3-Trichloropropane | 9.647 | 110 | 89801 | 42.58 ug/L | 99 |
| 90) | trans-1,4-Dichloro-2-b... | 9.636 | 53 | 83366 | 43.52 ug/L | 99 |
| 91) | n-Propylbenzene | 9.668 | 91 | 818354 | 42.81 ug/L | 100 |
| 92) | 2-Chlorotoluene | 9.720 | 91 | 494324 | 45.82 ug/L | 99 |
| 93) | 4-Chlorotoluene | 9.783 | 91 | 562804 | 46.15 ug/L | 99 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 536154 | 42.47 ug/L | 99 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 303092 | 44.84 ug/L | 99 |
| 96) | 1,2,4-Trimethylbenzene | 9.961 | 105 | 564631 | 41.99 ug/L | 100 |
| 97) | sec-Butylbenzene | 10.045 | 105 | 617159 | 42.73 ug/L | 100 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.621 | 83 | 284795 | 39.73 ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 10.114 | 146 | 313993 | 42.53 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 522891 | 41.81 ug/L | 99 |
| 102) | 1,4-Dichlorobenzene | 10.166 | 146 | 317476 | 40.98 ug/L | 100 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 563612 | 46.52 ug/L | 100 |
| 104) | Benzyl chloride | 10.218 | 91 | 250478 | 36.91 ug/L | 99 |
| 105) | 1,2-Dichlorobenzene | 10.344 | 146 | 306399 | 43.17 ug/L | 99 |
| 106) | n-Butylbenzene | 10.323 | 91 | 446145 | 45.89 ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP13.D
Acq On : 13 Sep 2018 07:33 pm
Operator : LNS
Sample : 40PPB
Misc :
ALS Vial : 10 Sample Multiplier: 1

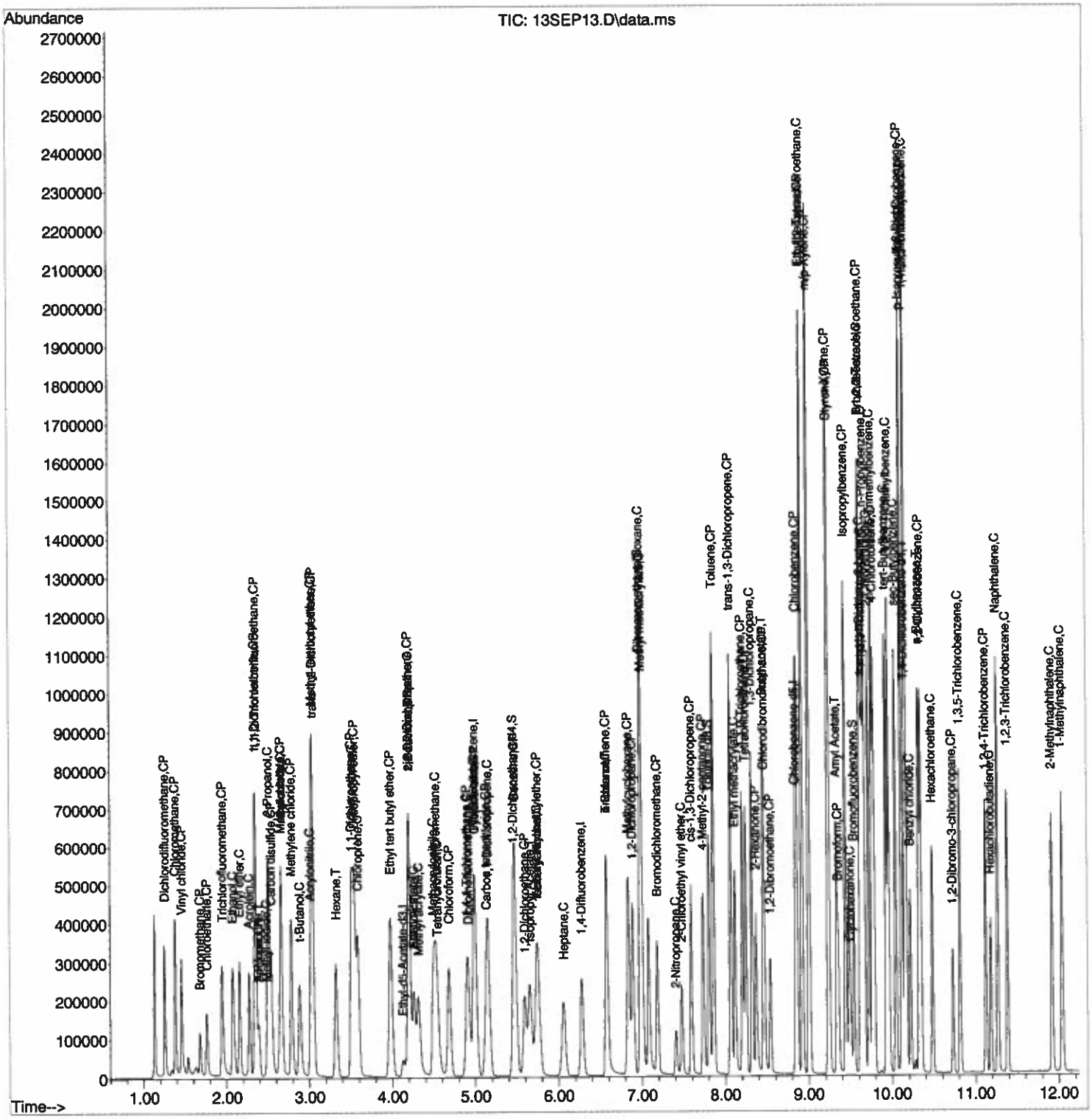
Quant Time: Sep 14 08:27:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 107) Hexachloroethane | 10.481 | 117 | 80467 | 39.28 ug/L | 98 |
| 108) 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 64360 | 42.17 ug/L | 99 |
| 109) 1,3,5-Trichlorobenzene | 10.811 | 180 | 184062 | 43.00 ug/L | 99 |
| 110) 1,2,4-Trichlorobenzene | 11.125 | 180 | 175079 | 42.91 ug/L | 98 |
| 111) Hexachlorobutadiene | 11.183 | 225 | 64053 | 41.96 ug/L | 99 |
| 112) Naphthalene | 11.267 | 128 | 674979 | 36.97 ug/L | 100 |
| 113) 1,2,3-Trichlorobenzene | 11.382 | 180 | 182620 | 44.40 ug/L | 100 |
| 114) 2-Methylnaphthalene | 11.917 | 142 | 288849 | 38.89 ug/L | 99 |
| 115) 1-Methylnaphthalene | 12.038 | 142 | 311962 | 38.47 ug/L | 100 |
| 117) 2-Propanone | 2.391 | 43 | 131833 | 45.03 ug/L | 95 |
| 118) Acetic Ether | 4.262 | 43 | 325886 | 44.21 ug/L | 100 |
| 119) Isopropyl Acetate | 5.657 | 61 | 82039 | 42.16 ug/L | 99 |
| 120) Amyl Acetate | 9.332 | 43 | 270905 | 41.65 ug/L | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP13.D
Acq On : 13 Sep 2018 07:33 pm
Operator : LNS
Sample : 40PPB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 08:27:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP14.D
Acq On : 13 Sep 2018 07:50 pm
Operator : LNS
Sample : 70PPB
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 08:30:01 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 173546 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 273310 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 253819 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 118244 | 20.00 | ug/L | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 79966 | 20.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 93993 | 19.64 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 98.20% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 110888 | 19.08 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 95.40% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 361273 | 20.87 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 104.35% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 128688 | 20.75 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 103.75% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 371780 | 102.39 | ug/L | 99 |
| 3) Chloromethane | 1.384 | 50 | 499913 | 85.64 | ug/L | 100 |
| 4) Vinyl chloride | 1.457 | 62 | 343317 | 84.07 | ug/L | 98 |
| 5) Bromomethane | 1.672 | 96 | 85997 | 60.51 | ug/L | 99 |
| 6) Chloroethane | 1.756 | 64 | 193747 | 79.54 | ug/L | 99 |
| 7) Trichlorofluoromethane | 1.945 | 101 | 367178 | 80.63 | ug/L | 99 |
| 8) Ethanol | 2.081 | 45 | 447643 | 1302.24 | ug/L | 99 |
| 9) Ethyl ether | 2.160 | 59 | 230976 | 68.05 | ug/L | 100 |
| 10) Acrolein | 2.275 | 56 | 362999 | 464.82 | ug/L | 99 |
| 11) 1,1-Dichloroethene | 2.349 | 61 | 383237 | 75.84 | ug/L | 94 |
| 12) 1,1,2-Trichlorotrifluo... | 2.354 | 151 | 175347 | 88.26 | ug/L | 97 |
| 13) Methyl iodide | 2.485 | 142 | 59507 | 78.19 | ug/L | 95 |
| 14) Acetone | 2.390 | 43 | 209650 | 69.93 | ug/L | 96 |
| 15) 2-Propanol | 2.511 | 45 | 1117651 | 1317.40 | ug/L | 99 |
| 16) Chloroprene | 3.586 | 53 | 395312 | 79.25 | ug/L | 100 |
| 17) Carbon disulfide | 2.543 | 76 | 657892 | 70.19 | ug/L | 100 |
| 18) Allyl chloride | 2.663 | 41 | 419025 | 73.87 | ug/L | 100 |
| 19) Methyl acetate | 2.658 | 43 | 450590 | 70.50 | ug/L | 99 |
| 20) Acetonitrile | 2.663 | 41 | 419025 | 76.50 | ug/L # | 85 |
| 21) Methylene chloride | 2.784 | 49 | 370079 | 70.59 | ug/L | 100 |
| 22) trans-1,2-Dichloroethene | 3.041 | 61 | 393617 | 69.22 | ug/L | 99 |
| 23) t-Butanol | 2.889 | 59 | 389440 | 318.58 | ug/L | 100 |
| 24) Acrylonitrile | 3.014 | 53 | 239119 | 70.32 | ug/L | 99 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 794649 | 74.85 | ug/L | 100 |
| 26) Hexane | 3.324 | 57 | 256004 | 70.10 | ug/L | 98 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 520245 | 68.62 | ug/L | 100 |
| 28) Diisopropyl ether | 3.544 | 45 | 825427 | 70.33 | ug/L | 91 |
| 29) Vinyl acetate | 3.518 | 86 | 57181 | 60.16 | ug/L | 97 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 736590 | 77.44 | ug/L | 99 |
| 31) 2,2-Dichloropropane | 4.199 | 77 | 325749 | 70.08 | ug/L | 97 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 448688 | 70.97 | ug/L | 99 |
| 33) 2-Butanone | 4.205 | 43 | 287418 | 70.46 | ug/L | 96 |
| 34) Ethyl Acetate | 4.262 | 43 | 543079m | 74.40 | ug/L | |
| 35) Methyl acrylate | 4.315 | 55 | 482648 | 69.97 | ug/L | 100 |
| 36) Propionitrile | 4.991 | 54 | 42480 | 69.26 | ug/L | 79 |
| 37) Bromochloromethane | 4.524 | 49 | 218960 | 64.20 | ug/L | 99 |
| 38) Tetrahydrofuran | 4.545 | 42 | 215940 | 71.09 | ug/L | 100 |
| 39) Methacrylonitrile | 4.493 | 41 | 299640 | 71.33 | ug/L | 97 |
| 40) Chloroform | 4.682 | 83 | 504607 | 70.33 | ug/L | 99 |
| 41) Cyclohexane | 4.991 | 56 | 408432 | 71.95 | ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP14.D
Acq On : 13 Sep 2018 07:50 pm
Operator : LNS
Sample : 70PPB
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 08:30:01 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 43) 1,1,1-Trichloroethane | 4.902 | 97 | 379826 | 73.03 ug/L | 100 |
| 45) Carbon tetrachloride | 5.133 | 117 | 311226 | 73.30 ug/L | 100 |
| 46) 1,1-Dichloropropene | 5.154 | 75 | 366521 | 75.26 ug/L | 99 |
| 48) 1,2-Dichloroethane | 5.594 | 62 | 404264 | 67.29 ug/L | 100 |
| 49) Benzene | 5.473 | 78 | 1154476 | 72.01 ug/L | 100 |
| 50) Tertiaryamylmethylether | 5.746 | 73 | 694810 | 69.65 ug/L | 98 |
| 51) Isobutyl Alcohol | 5.746 | 43 | 208315 | 70.64 ug/L | 94 |
| 52) Heptane | 6.055 | 43 | 194114 | 70.34 ug/L | 98 |
| 53) 1,4-Dioxane | 6.989 | 88 | 916565 | 6843.94 ug/L | 100 |
| 54) Methylcyclohexane | 6.837 | 83 | 371800 | 78.07 ug/L | 100 |
| 55) n-Butanol | 6.569 | 56 | 181835 | 679.73 ug/L | 99 |
| 56) Trichloroethene | 6.574 | 130 | 282446 | 70.41 ug/L | 100 |
| 57) 1,2-Dichloropropane | 6.889 | 63 | 305189 | 74.08 ug/L | 100 |
| 58) Dibromomethane | 6.978 | 93 | 203463 | 75.02 ug/L | 98 |
| 59) Methyl methacrylate | 6.999 | 41 | 354032 | 69.41 ug/L | 99 |
| 60) Bromodichloromethane | 7.183 | 83 | 359766 | 74.69 ug/L | 100 |
| 61) 2-Chloroethyl vinyl ether | 7.476 | 43 | 88335 | 88.98 ug/L | 82 |
| 62) 2-Nitropropane | 7.403 | 43 | 117675 | 72.74 ug/L | 97 |
| 63) cis-1,3-Dichloropropene | 7.592 | 75 | 439727 | 70.35 ug/L | 99 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 444058 | 65.32 ug/L | 98 |
| 67) Toluene | 7.859 | 91 | 1198566 | 74.46 ug/L | 99 |
| 68) trans-1,3-Dichloropropene | 8.063 | 75 | 400681 | 70.24 ug/L | 95 |
| 69) Chloropicrin | 8.063 | 117 | 658092 | No Calib | |
| 70) Ethyl methacrylate | 8.116 | 69 | 428246 | 68.94 ug/L | 100 |
| 71) 1,1,2-Trichloroethane | 8.205 | 97 | 291744 | 70.28 ug/L | 100 |
| 72) Tetrachloroethene | 8.247 | 166 | 275118 | 69.82 ug/L | 99 |
| 73) 1,3-Dichloropropane | 8.315 | 76 | 496308 | 71.51 ug/L | 99 |
| 74) 2-Hexanone | 8.368 | 43 | 332241 | 64.52 ug/L | 99 |
| 75) Chlorodibromomethane | 8.467 | 129 | 291724 | 69.79 ug/L | 99 |
| 76) Butyl acetate | 8.457 | 43 | 551144 | 67.44 ug/L | 99 |
| 77) 1,2-Dibromoethane | 8.535 | 107 | 223310 | 96.92 ug/L | 97 |
| 78) Chlorobenzene | 8.860 | 112 | 736792 | 72.20 ug/L | 99 |
| 79) 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 248790 | 74.28 ug/L | 99 |
| 80) Ethylbenzene | 8.923 | 91 | 1247860 | 77.83 ug/L | 99 |
| 81) m/p-Xylene | 9.002 | 91 | 1931280 | 158.31 ug/L | 99 |
| 82) Styrene | 9.243 | 104 | 750578 | 68.53 ug/L | 100 |
| 83) o-Xylene | 9.233 | 91 | 969767 | 70.31 ug/L | 99 |
| 84) Cyclohexanone | 9.500 | 55 | 117472 | 370.12 ug/L | 97 |
| 85) Bromoform | 9.353 | 173 | 182645 | 73.46 ug/L | 99 |
| 86) Isopropylbenzene | 9.442 | 105 | 1125627 | 70.53 ug/L | 100 |
| 88) Bromobenzene | 9.621 | 77 | 690537 | 69.42 ug/L | 99 |
| 89) 1,2,3-Trichloropropane | 9.647 | 110 | 137746 | 65.33 ug/L | 99 |
| 90) trans-1,4-Dichloro-2-b... | 9.636 | 53 | 128917 | 67.33 ug/L | 95 |
| 91) n-Propylbenzene | 9.668 | 91 | 1352922 | 70.61 ug/L | 100 |
| 92) 2-Chlorotoluene | 9.720 | 91 | 798569 | 74.04 ug/L | 99 |
| 93) 4-Chlorotoluene | 9.783 | 91 | 919279 | 75.41 ug/L | 100 |
| 94) 1,3,5-Trimethylbenzene | 9.762 | 105 | 894896 | 70.69 ug/L | 98 |
| 95) tert-Butylbenzene | 9.930 | 91 | 514339 | 76.13 ug/L | 99 |
| 96) 1,2,4-Trimethylbenzene | 9.956 | 105 | 939325 | 69.72 ug/L | 99 |
| 97) sec-Butylbenzene | 10.045 | 105 | 1033394 | 71.35 ug/L | 100 |
| 99) 1,1,2,2-Tetrachloroethane | 9.615 | 83 | 438562 | 64.58 ug/L | 100 |
| 100) 1,3-Dichlorobenzene | 10.113 | 146 | 507715 | 72.59 ug/L | 99 |
| 101) p-Isopropyltoluene | 10.119 | 119 | 875313 | 73.70 ug/L | 99 |
| 102) 1,4-Dichlorobenzene | 10.166 | 146 | 506252 | 68.98 ug/L | 100 |
| 103) 1,2,3-Trimethylbenzene | 10.171 | 105 | 923938 | 80.50 ug/L | 100 |
| 104) Benzyl chloride | 10.218 | 91 | 439942 | 62.63 ug/L | 99 |
| 105) 1,2-Dichlorobenzene | 10.344 | 146 | 486565 | 72.37 ug/L | 100 |
| 106) n-Butylbenzene | 10.318 | 91 | 747387 | 81.15 ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP14.D
Acq On : 13 Sep 2018 07:50 pm
Operator : LNS
Sample : 70PPB
Misc :
ALS Vial : 11 Sample Multiplier: 1

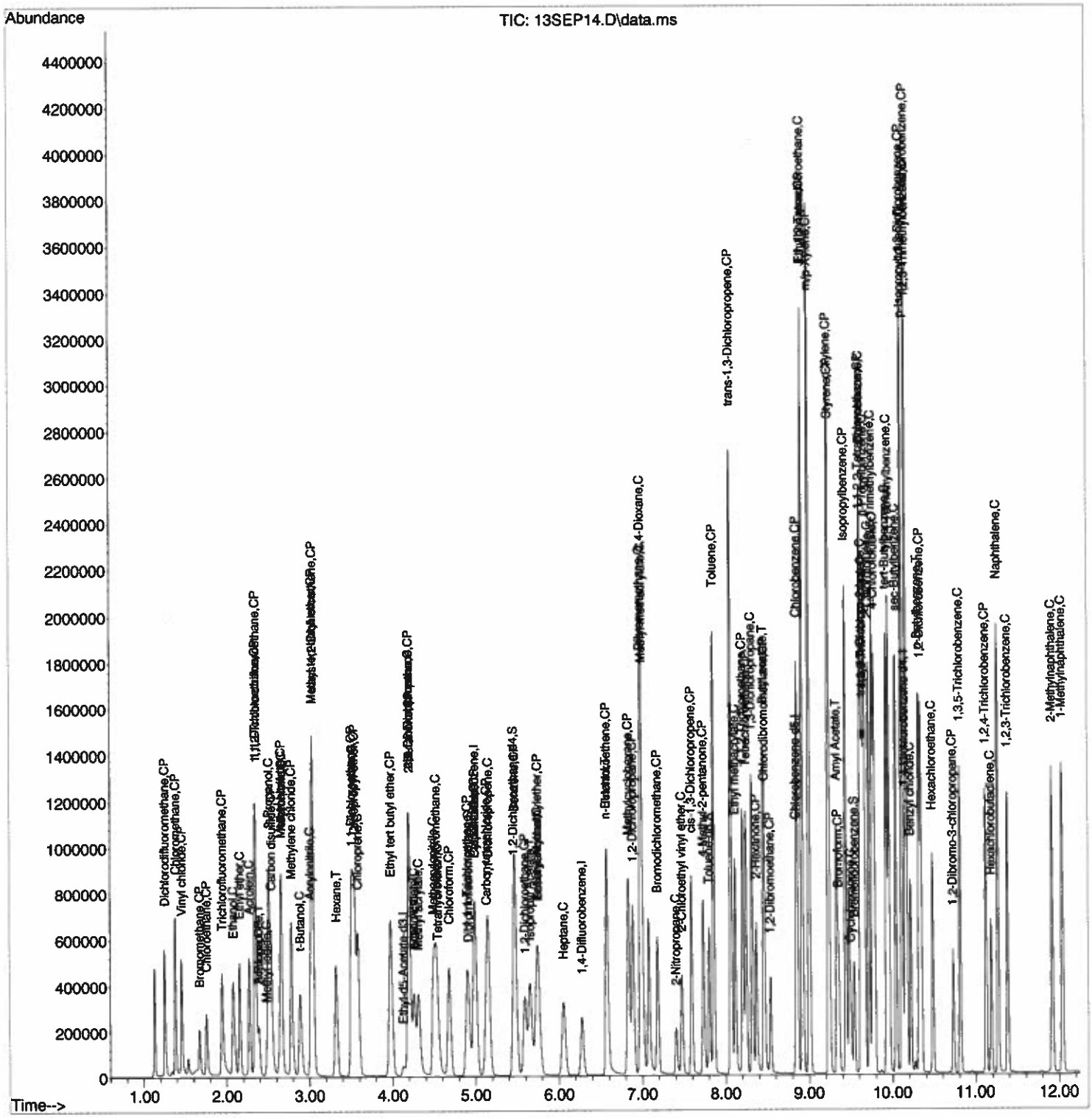
Quant Time: Sep 14 08:30:01 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 107) Hexachloroethane | 10.480 | 117 | 137794 | 70.73 ug/L | 100 |
| 108) 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 109865 | 76.00 ug/L | 100 |
| 109) 1,3,5-Trichlorobenzene | 10.811 | 180 | 304508 | 75.10 ug/L | 99 |
| 110) 1,2,4-Trichlorobenzene | 11.120 | 180 | 299275 | 77.43 ug/L | 99 |
| 111) Hexachlorobutadiene | 11.183 | 225 | 105890 | 73.22 ug/L | 99 |
| 112) Naphthalene | 11.267 | 128 | 1196229 | 68.85 ug/L | 100 |
| 113) 1,2,3-Trichlorobenzene | 11.382 | 180 | 313481 | 80.46 ug/L | 99 |
| 114) 2-Methylnaphthalene | 11.917 | 142 | 553583 | 66.66 ug/L | 99 |
| 115) 1-Methylnaphthalene | 12.038 | 142 | 572441 | 66.17 ug/L | 100 |
| 117) 2-Propanone | 2.390 | 43 | 209650 | 69.85 ug/L | 96 |
| 118) Acetic Ether | 4.262 | 43 | 531194 | 70.00 ug/L | 99 |
| 119) Isopropyl Acetate | 5.657 | 61 | 138132 | 68.61 ug/L | 98 |
| 120) Amyl Acetate | 9.332 | 43 | 440725 | 65.65 ug/L | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP14.D
Acq On : 13 Sep 2018 07:50 pm
Operator : LNS
Sample : 70PPB
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 08:30:01 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WG00910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP15.D
Acq On : 13 Sep 2018 08:06 pm
Operator : LNS
Sample : 100PPB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 08:31:28 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 174613 | 20.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 279300 | 20.00 | ug/L | | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 248330 | 20.00 | ug/L | | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 118367 | 20.00 | ug/L | # | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 79712 | 20.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 91901 | 18.79 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 93.95% | | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 111027 | 18.69 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 93.45% | | | | |
| 66) Toluene-d8 | 7.801 | 98 | 362803 | 21.42 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 107.10% | | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 125142 | 20.62 | ug/L | | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 103.10% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 492226 | 134.86 | ug/L | | 99 |
| 3) Chloromethane | 1.379 | 50 | 689511 | 117.49 | ug/L | | 100 |
| 4) Vinyl chloride | 1.457 | 62 | 469343 | 114.33 | ug/L | | 98 |
| 5) Bromomethane | 1.672 | 96 | 65220 | 45.50 | ug/L | | 99 |
| 6) Chloroethane | 1.756 | 64 | 262135 | 107.38 | ug/L | | 99 |
| 7) Trichlorofluoromethane | 1.945 | 101 | 504470 | 113.83 | ug/L | | 99 |
| 8) Ethanol | 2.092 | 45 | 660348 | 1960.53 | ug/L | | 100 |
| 9) Ethyl ether | 2.160 | 59 | 341774 | 100.07 | ug/L | | 99 |
| 10) Acrolein | 2.275 | 56 | 596802 | 721.87 | ug/L | | 99 |
| 11) 1,1-Dichloroethene | 2.349 | 61 | 556134 | 109.38 | ug/L | | 94 |
| 12) 1,1,2-Trichlorotrifluo... | 2.349 | 151 | 252342 | 126.24 | ug/L | | 99 |
| 13) Methyl iodide | 2.485 | 142 | 104377 | 108.80 | ug/L | | 94 |
| 14) Acetone | 2.391 | 43 | 302365 | 100.46 | ug/L | | 94 |
| 15) 2-Propanol | 2.516 | 45 | 1660969 | 1950.42 | ug/L | | 97 |
| 16) Chloroprene | 3.586 | 53 | 588117 | 117.18 | ug/L | | 99 |
| 17) Carbon disulfide | 2.543 | 76 | 985404 | 104.49 | ug/L | | 100 |
| 18) Allyl chloride | 2.663 | 41 | 585211 | 102.54 | ug/L | | 100 |
| 19) Methyl acetate | 2.658 | 43 | 662653 | 103.12 | ug/L | | 99 |
| 20) Acetonitrile | 2.663 | 41 | 585211 | 106.19 | ug/L | # | 85 |
| 21) Methylene chloride | 2.784 | 49 | 527239 | 100.16 | ug/L | | 99 |
| 22) trans-1,2-Dichloroethene | 3.041 | 61 | 570828 | 99.78 | ug/L | | 99 |
| 23) t-Butanol | 2.894 | 59 | 606813 | 462.22 | ug/L | | 98 |
| 24) Acrylonitrile | 3.014 | 53 | 349436 | 102.14 | ug/L | | 100 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 1206141 | 112.92 | ug/L | | 99 |
| 26) Hexane | 3.324 | 57 | 389810 | 106.08 | ug/L | | 98 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 758793 | 99.47 | ug/L | | 100 |
| 28) Diisopropyl ether | 3.544 | 45 | 1230840 | 100.70 | ug/L | | 96 |
| 29) Vinyl acetate | 3.513 | 86 | 93826 | 91.14 | ug/L | # | 94 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 1131611 | 118.25 | ug/L | | 99 |
| 31) 2,2-Dichloropropane | 4.199 | 77 | 484233 | 103.54 | ug/L | | 96 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 661316 | 103.97 | ug/L | | 98 |
| 33) 2-Butanone | 4.205 | 43 | 425430 | 103.61 | ug/L | | 95 |
| 34) Ethyl Acetate | 4.262 | 43 | 793349 | 108.03 | ug/L | | 99 |
| 35) Methyl acrylate | 4.315 | 55 | 718628 | 103.37 | ug/L | | 99 |
| 36) Propionitrile | 4.986 | 54 | 55815 | 104.29 | ug/L | # | 63 |
| 37) Bromochloromethane | 4.519 | 49 | 315836 | 92.04 | ug/L | | 99 |
| 38) Tetrahydrofuran | 4.545 | 42 | 318181 | 103.97 | ug/L | | 99 |
| 39) Methacrylonitrile | 4.493 | 41 | 447597 | 105.81 | ug/L | | 96 |
| 40) Chloroform | 4.682 | 83 | 732937 | 101.53 | ug/L | | 99 |
| 41) Cyclohexane | 4.991 | 56 | 612793 | 107.52 | ug/L | | 98 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP15.D
Acq On : 13 Sep 2018 08:06 pm
Operator : LNS
Sample : 100PPB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 08:31:28 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) | 1,1,1-Trichloroethane | 4.902 | 97 | 564703 | 106.25 ug/L | 100 |
| 45) | Carbon tetrachloride | 5.133 | 117 | 461927 | 106.36 ug/L | 99 |
| 46) | 1,1-Dichloropropene | 5.154 | 75 | 541533 | 108.81 ug/L | 99 |
| 48) | 1,2-Dichloroethane | 5.594 | 62 | 594748 | 96.87 ug/L | 100 |
| 49) | Benzene | 5.473 | 78 | 1690631 | 103.19 ug/L | 100 |
| 50) | Tertiaryamylmethylether | 5.746 | 73 | 1066492 | 99.57 ug/L | 97 |
| 51) | Isobutyl Alcohol | 5.746 | 43 | 315499 | 104.70 ug/L | 91 |
| 52) | Heptane | 6.055 | 43 | 294931 | 104.58 ug/L | 98 |
| 53) | 1,4-Dioxane | 6.989 | 88 | 1341669 | 9803.32 ug/L | 99 |
| 54) | Methylcyclohexane | 6.837 | 83 | 565076 | 116.12 ug/L | 99 |
| 55) | n-Butanol | 6.574 | 56 | 306470 | 997.75 ug/L | 98 |
| 56) | Trichloroethene | 6.574 | 130 | 413379 | 100.83 ug/L | 99 |
| 57) | 1,2-Dichloropropane | 6.889 | 63 | 443364 | 105.32 ug/L | 99 |
| 58) | Dibromomethane | 6.978 | 93 | 295640 | 106.66 ug/L | 99 |
| 59) | Methyl methacrylate | 6.999 | 41 | 520615 | 99.75 ug/L | 98 |
| 60) | Bromodichloromethane | 7.183 | 83 | 530678 | 107.81 ug/L | 99 |
| 61) | 2-Chloroethyl vinyl ether | 7.476 | 43 | 135158 | Below Cal | 85 |
| 62) | 2-Nitropropane | 7.403 | 43 | 173790 | 105.12 ug/L | 97 |
| 63) | cis-1,3-Dichloropropene | 7.592 | 75 | 657419 | 102.77 ug/L | 100 |
| 65) | 4-Methyl-2-pentanone | 7.733 | 43 | 650924 | 97.65 ug/L | 98 |
| 67) | Toluene | 7.859 | 91 | 1767248 | 112.22 ug/L | 99 |
| 68) | trans-1,3-Dichloropropene | 8.064 | 75 | 615422 | 103.76 ug/L | 94 |
| 69) | Chloropicrin | 8.064 | 117 | 1402683 | No Calib | |
| 70) | Ethyl methacrylate | 8.116 | 69 | 624373 | 102.58 ug/L | 99 |
| 71) | 1,1,2-Trichloroethane | 8.205 | 97 | 417363 | 102.76 ug/L | 99 |
| 72) | Tetrachloroethene | 8.247 | 166 | 402769 | 104.48 ug/L | 99 |
| 73) | 1,3-Dichloropropane | 8.315 | 76 | 720942 | 106.18 ug/L | 98 |
| 74) | 2-Hexanone | 8.368 | 43 | 507747 | 100.61 ug/L | 100 |
| 75) | Chlorodibromomethane | 8.467 | 129 | 425363 | 103.87 ug/L | 98 |
| 76) | Butyl acetate | 8.457 | 43 | 816742 | 101.99 ug/L | 99 |
| 77) | 1,2-Dibromoethane | 8.535 | 107 | 304921 | 136.31 ug/L | 98 |
| 78) | Chlorobenzene | 8.860 | 112 | 1057862 | 105.95 ug/L | 99 |
| 79) | 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 362852 | 110.73 ug/L | 99 |
| 80) | Ethylbenzene | 8.923 | 91 | 1848113 | 117.82 ug/L | 100 |
| 81) | m/p-Xylene | 9.002 | 91 | 2836189 | 237.62 ug/L | 99 |
| 82) | Styrene | 9.243 | 104 | 1100266 | 102.55 ug/L | 99 |
| 83) | o-Xylene | 9.233 | 91 | 1429850 | 105.81 ug/L | 100 |
| 84) | Cyclohexanone | 9.500 | 55 | 181761 | 584.11 ug/L | 96 |
| 85) | Bromoform | 9.353 | 173 | 270213 | 111.08 ug/L | 99 |
| 86) | Isopropylbenzene | 9.442 | 105 | 1666068 | 106.53 ug/L | 100 |
| 88) | Bromobenzene | 9.621 | 77 | 1004731 | 103.25 ug/L | 100 |
| 89) | 1,2,3-Trichloropropane | 9.647 | 110 | 198127 | 96.04 ug/L | 100 |
| 90) | trans-1,4-Dichloro-2-b... | 9.636 | 53 | 195177 | 104.19 ug/L | 91 |
| 91) | n-Propylbenzene | 9.668 | 91 | 1990923 | 106.06 ug/L | 100 |
| 92) | 2-Chlorotoluene | 9.720 | 91 | 1158605 | 109.80 ug/L | 99 |
| 93) | 4-Chlorotoluene | 9.783 | 91 | 1327975 | 111.34 ug/L | 100 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 1317094 | 106.18 ug/L | 99 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 764345 | 115.63 ug/L | 99 |
| 96) | 1,2,4-Trimethylbenzene | 9.961 | 105 | 1355153 | 102.69 ug/L | 100 |
| 97) | sec-Butylbenzene | 10.040 | 105 | 1526360 | 107.55 ug/L | 100 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.621 | 83 | 645037 | 94.89 ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 10.114 | 146 | 736011 | 105.13 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 1289382 | 108.34 ug/L | 100 |
| 102) | 1,4-Dichlorobenzene | 10.166 | 146 | 725960 | 98.81 ug/L | 99 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 1340961 | 116.72 ug/L | 100 |
| 104) | Benzyl chloride | 10.218 | 91 | 717182 | 92.93 ug/L | 99 |
| 105) | 1,2-Dichlorobenzene | 10.344 | 146 | 710799 | 105.61 ug/L | 100 |
| 106) | n-Butylbenzene | 10.318 | 91 | 1119707 | 121.46 ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP15.D
Acq On : 13 Sep 2018 08:06 pm
Operator : LNS
Sample : 100PPB
Misc :
ALS Vial : 12 Sample Multiplier: 1

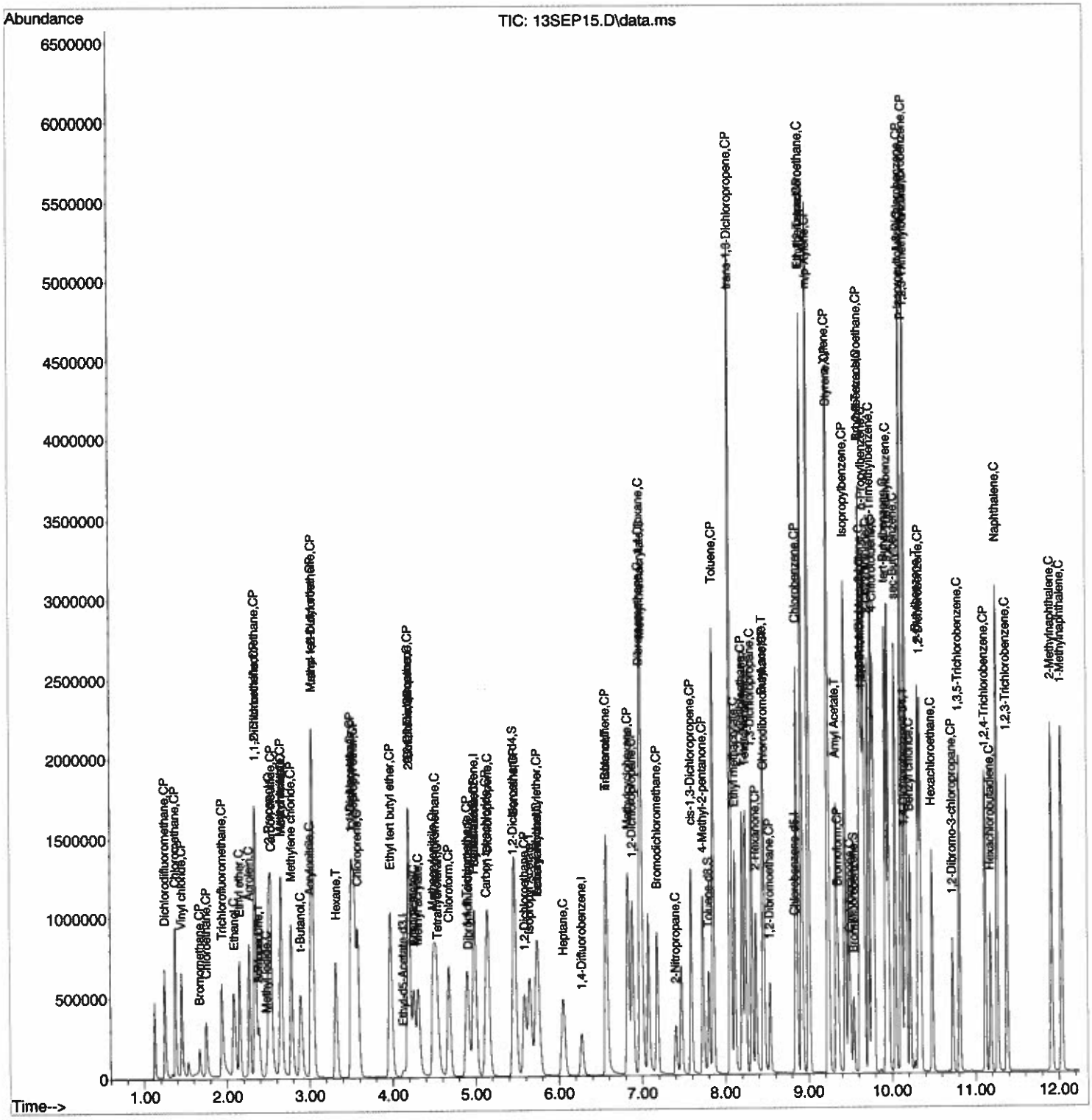
Quant Time: Sep 14 08:31:28 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 107) Hexachloroethane | 10.481 | 117 | 206163 | 105.55 ug/L | 98 |
| 108) 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 175221 | 121.08 ug/L | 99 |
| 109) 1,3,5-Trichlorobenzene | 10.811 | 180 | 459845 | 113.29 ug/L | 99 |
| 110) 1,2,4-Trichlorobenzene | 11.125 | 180 | 459702 | 118.81 ug/L | 99 |
| 111) Hexachlorobutadiene | 11.183 | 225 | 158811 | 109.71 ug/L | 98 |
| 112) Naphthalene | 11.267 | 128 | 1877160 | 107.73 ug/L | 100 |
| 113) 1,2,3-Trichlorobenzene | 11.382 | 180 | 470653 | 120.67 ug/L | 99 |
| 114) 2-Methylnaphthalene | 11.917 | 142 | 914964 | 95.20 ug/L | 99 |
| 115) 1-Methylnaphthalene | 12.038 | 142 | 913019 | 94.65 ug/L | 100 |
| 117) 2-Propanone | 2.391 | 43 | 302365 | 101.29 ug/L | 94 |
| 118) Acetic Ether | 4.262 | 43 | 793349 | 104.89 ug/L | 99 |
| 119) Isopropyl Acetate | 5.652 | 61 | 210588 | 104.65 ug/L | 98 |
| 120) Amyl Acetate | 9.332 | 43 | 689753 | 102.90 ug/L | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP15.D
Acq On : 13 Sep 2018 08:06 pm
Operator : LNS
Sample : 100PPB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 08:31:28 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WG00910.M
Quant Title : 8260 Global Optimization Method
QLast Update : Tue Sep 11 11:33:24 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 10:00:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 177091 | 20.00 ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 281889 | 20.00 ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 267178 | 20.00 ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 127350 | 20.00 ug/L | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 81380 | 20.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 97171 | 19.52 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 97.60% | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 116084 | 19.05 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 95.25% | | |
| 66) Toluene-d8 | 7.801 | 98 | 380431 | 20.79 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 103.95% | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 133837 | 20.44 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 102.20% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 173955 | 33.23 ug/L | 99 |
| 3) Chloromethane | 1.379 | 50 | 223306 | 29.82 ug/L | 99 |
| 4) Vinyl chloride | 1.457 | 62 | 171912 | 34.83 ug/L | 99 |
| 5) Bromomethane | 1.683 | 96 | 60423 | 47.53 ug/L | 98 |
| 6) Chloroethane | 1.767 | 64 | 107675 | 38.37 ug/L | 98 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 195988 | 35.28 ug/L | 99 |
| 8) Ethanol | 2.071 | 45 | 275075 | 799.83 ug/L | 99 |
| 9) Ethyl ether | 2.160 | 59 | 142200 | 41.84 ug/L | 100 |
| 10) Acrolein | 2.275 | 56 | 418 | Below Cal # | 14 |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 236273 | 41.74 ug/L | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.354 | 151 | 799 | 0.30 ug/L # | 69 |
| 13) Methyl iodide | 2.485 | 142 | 62321 | 67.74 ug/L | 98 |
| 14) Acetone | 2.390 | 43 | 138639 | 43.82 ug/L | 99 |
| 15) 2-Propanol | 2.506 | 45 | 822564 | 973.38 ug/L | 97 |
| 16) Chloroprene | 3.591 | 53 | 607 | 0.33 ug/L # | 1 |
| 17) Carbon disulfide | 2.542 | 76 | 418782 | 42.19 ug/L | 100 |
| 18) Allyl chloride | 2.668 | 41 | 213384 | 33.49 ug/L | 85 |
| 19) Methyl acetate | 2.658 | 43 | 4198 | 0.51 ug/L # | 1 |
| 20) Acetonitrile | 2.668 | 41 | 213384 | 33.49 ug/L | 90 |
| 21) Methylene chloride | 2.784 | 49 | 221921 | 40.29 ug/L | 99 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 234249 | 41.83 ug/L | 100 |
| 23) t-Butanol | 2.883 | 59 | 281431 | 219.55 ug/L | 97 |
| 24) Acrylonitrile | 3.014 | 53 | 151233 | 45.38 ug/L | 97 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 502468 | 44.29 ug/L | 99 |
| 26) Hexane | 3.324 | 57 | 1608 | 0.46 ug/L | 82 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 303487 | 39.51 ug/L | 99 |
| 28) Diisopropyl ether | 3.544 | 45 | 470691 | 40.30 ug/L # | 55 |
| 29) Vinyl acetate | 3.502 | 86 | 370 | 1.50 ug/L # | 1 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 436637 | 41.74 ug/L | 100 |
| 31) 2,2-Dichloropropane | 4.205 | 77 | 180445 | 38.48 ug/L | 99 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 264955 | 41.61 ug/L | 99 |
| 33) 2-Butanone | 4.205 | 43 | 180848 | 42.58 ug/L | 100 |
| 34) Ethyl Acetate | 4.262 | 43 | 288065 | 34.29 ug/L | 99 |
| 35) Methyl acrylate | 4.320 | 55 | 293405 | 41.22 ug/L | 100 |
| 36) Propionitrile | 0.000 | | 0 | N.D. | |
| 37) Bromochloromethane | 4.524 | 49 | 136836 | 38.61 ug/L | 99 |
| 38) Tetrahydrofuran | 4.545 | 42 | 132171 | 41.55 ug/L | 99 |
| 39) Methacrylonitrile | 4.493 | 41 | 185815 | 41.13 ug/L | 99 |
| 40) Chloroform | 4.682 | 83 | 291173 | 39.32 ug/L | 100 |
| 41) Cyclohexane | 4.996 | 56 | 4238 | 0.28 ug/L # | 20 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 10:00:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) | 1,1,1-Trichloroethane | 4.902 | 97 | 219907 | 41.16 ug/L | 99 |
| 45) | Carbon tetrachloride | 5.133 | 117 | 173634 | 40.26 ug/L | 100 |
| 46) | 1,1-Dichloropropene | 5.154 | 75 | 204911 | 39.99 ug/L | 99 |
| 48) | 1,2-Dichloroethane | 5.594 | 62 | 239243 | 38.57 ug/L | 99 |
| 49) | Benzene | 5.473 | 78 | 669336 | 40.11 ug/L | 100 |
| 50) | Tertiaryamylmethylether | 5.746 | 73 | 429992 | 44.84 ug/L | 98 |
| 51) | Isobutyl Alcohol | 5.741 | 43 | 131263 | 41.07 ug/L | 96 |
| 52) | Heptane | 6.050 | 43 | 411 | 0.16 ug/L # | 15 |
| 53) | 1,4-Dioxane | 6.978 | 88 | 846 | 25.66 ug/L # | 1 |
| 54) | Methylcyclohexane | 6.842 | 83 | 932 | 0.39 ug/L # | 81 |
| 55) | n-Butanol | 0.000 | | 0 | N.D. | |
| 56) | Trichloroethene | 6.574 | 130 | 157797 | 38.54 ug/L | 99 |
| 57) | 1,2-Dichloropropane | 6.889 | 63 | 177376 | 41.37 ug/L # | 82 |
| 58) | Dibromomethane | 6.983 | 93 | 117769 | 40.91 ug/L | 99 |
| 59) | Methyl methacrylate | 6.999 | 41 | 196548 | 37.60 ug/L | 98 |
| 60) | Bromodichloromethane | 7.183 | 83 | 198281 | 39.27 ug/L | 99 |
| 61) | 2-Chloroethyl vinyl ether | 7.513 | 43 | 284 | 0.35 ug/L # | 1 |
| 62) | 2-Nitropropane | 7.403 | 43 | 68221 | 39.57 ug/L | 99 |
| 63) | cis-1,3-Dichloropropene | 7.592 | 75 | 239129 | 36.89 ug/L | 98 |
| 65) | 4-Methyl-2-pentanone | 7.733 | 43 | 462296 | 66.79 ug/L | 81 |
| 67) | Toluene | 7.859 | 91 | 693030 | 39.94 ug/L | 99 |
| 68) | trans-1,3-Dichloropropene | 8.063 | 75 | 209847 | 37.73 ug/L | 95 |
| 69) | Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) | Ethyl methacrylate | 8.116 | 69 | 265599 | 43.10 ug/L | 99 |
| 71) | 1,1,2-Trichloroethane | 8.205 | 97 | 177728 | 41.29 ug/L | 99 |
| 72) | Tetrachloroethene | 8.247 | 166 | 166613 | 40.52 ug/L | 99 |
| 73) | 1,3-Dichloropropane | 8.315 | 76 | 298507 | 40.36 ug/L | 98 |
| 74) | 2-Hexanone | 8.367 | 43 | 239833 | 45.25 ug/L | 99 |
| 75) | Chlorodibromomethane | 8.467 | 129 | 150745 | 35.63 ug/L | 99 |
| 76) | Butyl acetate | 8.457 | 43 | 300059 | 35.09 ug/L | 100 |
| 77) | 1,2-Dibromoethane | 8.535 | 107 | 183590 | 47.68 ug/L | 100 |
| 78) | Chlorobenzene | 8.860 | 112 | 416710 | 38.95 ug/L | 100 |
| 79) | 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 142451 | 40.56 ug/L | 99 |
| 80) | Ethylbenzene | 8.923 | 91 | 714552 | 38.95 ug/L | 99 |
| 81) | m/p-Xylene | 9.002 | 91 | 1113542 | 77.94 ug/L | 100 |
| 82) | Styrene | 9.243 | 104 | 446931 | 43.09 ug/L | 98 |
| 83) | o-Xylene | 9.233 | 91 | 571244 | 40.12 ug/L | 98 |
| 84) | Cyclohexanone | 9.510 | 55 | 522 | 2.29 ug/L # | 30 |
| 85) | Bromoform | 9.353 | 173 | 99004 | 36.84 ug/L | 99 |
| 86) | Isopropylbenzene | 9.442 | 105 | 645588 | 38.66 ug/L | 99 |
| 88) | Bromobenzene | 9.621 | 77 | 413923 | 40.95 ug/L | 99 |
| 89) | 1,2,3-Trichloropropane | 9.647 | 110 | 88522 | 39.55 ug/L | 99 |
| 90) | trans-1,4-Dichloro-2-b... | 9.636 | 53 | 73778 | 39.45 ug/L | 94 |
| 91) | n-Propylbenzene | 9.668 | 91 | 762155 | 36.61 ug/L | 100 |
| 92) | 2-Chlorotoluene | 9.720 | 91 | 463027 | 41.65 ug/L | 99 |
| 93) | 4-Chlorotoluene | 9.783 | 91 | 538043 | 38.12 ug/L | 100 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 521747 | 39.19 ug/L | 100 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 292997 | 36.96 ug/L | 94 |
| 96) | 1,2,4-Trimethylbenzene | 9.956 | 105 | 541240 | 38.80 ug/L | 99 |
| 97) | sec-Butylbenzene | 10.045 | 105 | 586682 | 38.39 ug/L | 99 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.615 | 83 | 299820 | 41.59 ug/L | 98 |
| 100) | 1,3-Dichlorobenzene | 10.113 | 146 | 293546 | 39.09 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 488709 | 38.36 ug/L | 99 |
| 102) | 1,4-Dichlorobenzene | 10.166 | 146 | 301681 | 38.28 ug/L | 100 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 554694 | 39.04 ug/L | 100 |
| 104) | Benzyl chloride | 10.119 | 91 | 89641 | 16.83 ug/L | 61 |
| 105) | 1,2-Dichlorobenzene | 10.344 | 146 | 289847 | 39.34 ug/L | 99 |
| 106) | n-Butylbenzene | 10.318 | 91 | 419820 | 38.50 ug/L | 99 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 10:00:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 107) | Hexachloroethane | 10.480 | 117 | 71928 | 36.40 ug/L | 99 |
| 108) | 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 63874 | 40.15 ug/L | 98 |
| 109) | 1,3,5-Trichlorobenzene | 10.811 | 180 | 2201 | 0.50 ug/L | 94 |
| 110) | 1,2,4-Trichlorobenzene | 11.120 | 180 | 166037 | 38.48 ug/L | 99 |
| 111) | Hexachlorobutadiene | 11.183 | 225 | 59732 | 38.00 ug/L | 99 |
| 112) | Naphthalene | 11.267 | 128 | 656343 | 42.32 ug/L | 100 |
| 113) | 1,2,3-Trichlorobenzene | 11.382 | 180 | 170088 | 37.86 ug/L | 99 |
| 114) | 2-Methylnaphthalene | 11.922 | 142 | 3158 | 0.81 ug/L | 94 |
| 115) | 1-Methylnaphthalene | 12.043 | 142 | 1908 | 0.52 ug/L | 86 |
| 117) | 2-Propanone | 2.390 | 43 | 138639 | 43.59 ug/L | 99 |
| 118) | Acetic Ether | 4.262 | 43 | 288065 | 41.88 ug/L | 99 |
| 119) | Isopropyl Acetate | 5.657 | 61 | 72144 | 34.90 ug/L | 99 |
| 120) | Amyl Acetate | 9.332 | 43 | 230638 | 34.28 ug/L | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
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Quant Title : 8260 Global Optimization Method
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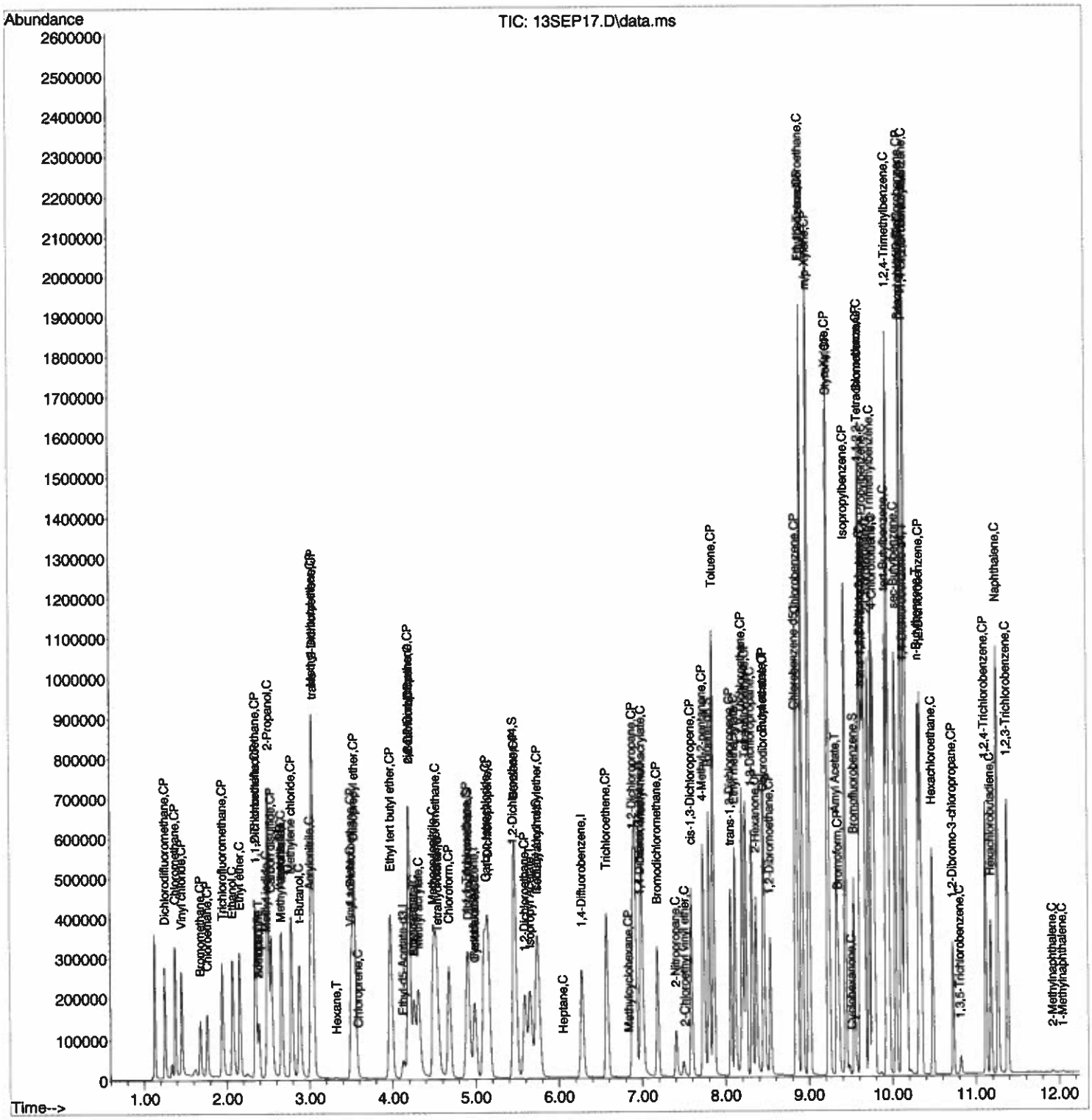

# Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 10:00:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 20.000 | 20.000 | 0.0 | 104 | 0.00 |
| 2 | CP | Dichlorodifluoromethane | 40.000 | 33.234 | 16.9 | 79 | 0.00 |
| 3 | CP | Chloromethane | 40.000 | 29.817 | 25.5# | 77 | 0.00 |
| 4 | CP | Vinyl chloride | 40.000 | 34.834 | 12.9 | 85 | 0.00 |
| 5 | CP | Bromomethane | 40.000 | 47.528 | -18.8 | 122 | 0.00 |
| 6 | CP | Chloroethane | 40.000 | 38.371 | 4.1 | 93 | 0.00 |
| 7 | CP | Trichlorofluoromethane | 40.000 | 35.277 | 11.8 | 88 | 0.00 |
| 8 | C | Ethanol | 800.000 | 799.833 | 0.0 | 95 | 0.00 |
| 9 | C | Ethyl ether | 40.000 | 41.843 | -4.6 | 103 | 0.00 |
| 10 | C | Acrolein | 200.000 | -1.000 | 100.5# | 0 | 0.00 |
| 11 | CP | 1,1-Dichloroethene | 40.000 | 41.739 | -4.3 | 101 | 0.00 |
| 12 | CP | 1,1,2-Trichlorotrifluoroeth | 40.000 | 0.302 | 99.2# | 1 | 0.00 |
| 13 | C | Methyl iodide | 40.000 | 67.744 | -69.4# | 190 | 0.00 |
| 14 | CP | Acetone | 40.000 | 43.819 | -9.5 | 105 | 0.00 |
| 15 | C | 2-Propanol | 800.000 | 973.382 | -21.7# | 125 | 0.00 |
| 16 | C | Chloroprene | 40.000 | 0.335 | 99.2# | 0 | 0.00 |
| 17 | CP | Carbon disulfide | 40.000 | 42.187 | -5.5 | 110 | 0.00 |
| 18 | C | Allyl chloride | 40.000 | 33.491 | 16.3 | 81 | 0.00 |
| 19 | CP | Methyl acetate | 40.000 | 0.515 | 98.7# | 2 | 0.00 |
| 20 | C | Acetonitrile | 40.000 | 33.491 | 16.3 | 81 | 0.00 |
| 21 | CP | Methylene chloride | 40.000 | 40.287 | -0.7 | 99 | 0.00 |
| 22 | CP | trans-1,2-Dichloroethene | 40.000 | 41.833 | -4.6 | 101 | 0.00 |
| 23 | C | t-Butanol | 200.000 | 219.551 | -9.8 | 114 | 0.00 |
| 24 | C | Acrylonitrile | 40.000 | 45.378 | -13.4 | 103 | 0.00 |
| 25 | CP | Methyl tert-butyl ether | 40.000 | 44.293 | -10.7 | 104 | 0.00 |
| 26 | T | Hexane | 40.000 | 0.455 | 98.9# | 1 | 0.00 |
| 27 | CP | 1,1-Dichloroethane | 40.000 | 39.512 | 1.2 | 98 | 0.00 |
| 28 | CP | Diisopropyl ether | 40.000 | 40.304 | -0.8 | 95 | 0.00 |
| 29 | C | Vinyl acetate | 40.000 | 1.502 | 96.2# | 1 | -0.02 |
| 30 | CP | Ethyl tert butyl ether | 40.000 | 41.741 | -4.4 | 100 | 0.00 |
| 31 | C | 2,2-Dichloropropane | 40.000 | 38.475 | 3.8 | 95 | 0.00 |
| 32 | CP | cis-1,2-Dichloroethene | 40.000 | 41.614 | -4.0 | 100 | 0.00 |
| 33 | CP | 2-Butanone | 40.000 | 42.578 | -6.4 | 104 | 0.00 |
| 34 | C | Ethyl Acetate | 40.000 | 34.293 | 14.3 | 86 | 0.00 |
| 35 | C | Methyl acrylate | 40.000 | 41.217 | -3.0 | 106 | 0.00 |
| 36 | C | Propionitrile | 40.000 | 0.000 | 100.0# | 0 | -4.99# |
| 37 | C | Bromochloromethane | 40.000 | 38.607 | 3.5 | 99 | 0.00 |
| 38 | C | Tetrahydrofuran | 40.000 | 41.547 | -3.9 | 105 | 0.00 |
| 39 | C | Methacrylonitrile | 40.000 | 41.128 | -2.8 | 107 | 0.00 |
| 40 | CP | Chloroform | 40.000 | 39.315 | 1.7 | 96 | 0.00 |
| 41 | CP | Cyclohexane | 40.000 | 0.284 | 99.3# | 2 | 0.00 |
| 42 | I | 1,4-Difluorobenzene | 20.000 | 20.000 | 0.0 | 105 | 0.00 |
| 43 | CP | 1,1,1-Trichloroethane | 40.000 | 41.164 | -2.9 | 99 | 0.00 |
| 44 | S | Dibromofluoromethane | 20.000 | 19.520 | 2.4 | 106 | 0.00 |
| 45 | CP | Carbon tetrachloride | 40.000 | 40.257 | -0.6 | 94 | 0.00 |
| 46 | C | 1,1-Dichloropropene | 40.000 | 39.987 | 0.0 | 94 | 0.00 |
| 47 | S | 1,2-Dichloroethane-d4 | 20.000 | 19.045 | 4.8 | 104 | 0.00 |
| 48 | CP | 1,2-Dichloroethane | 40.000 | 38.568 | 3.6 | 98 | 0.00 |
| 49 | CP | Benzene | 40.000 | 40.109 | -0.3 | 98 | 0.00 |
| 50 | CP | Tertiaryamylmethylether | 40.000 | 44.844 | -12.1 | 105 | 0.00 |
| 51 | C | Isobutyl Alcohol | 40.000 | 41.073 | -2.7 | 103 | 0.00 |
| 52 | C | Heptane | 40.000 | 0.156 | 99.6# | 0 | -0.01 |
| 53 | C | 1,4-Dioxane | 4000.000 | 25.657 | 99.4# | 0 | 0.00 |

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Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
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Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 10:00:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 54 | CP | Methylcyclohexane | 40.000 | 0.394 | 99.0# | 0 | 0.00 |
| 55 | T | n-Butanol | 400.000 | 0.000 | 100.0# | 0 | -6.57# |
| 56 | CP | Trichloroethene | 40.000 | 38.541 | 3.6 | 95 | 0.00 |
| 57 | CP | 1,2-Dichloropropane | 40.000 | 41.369 | -3.4 | 97 | 0.00 |
| 58 | C | Dibromomethane | 40.000 | 40.915 | -2.3 | 97 | 0.00 |
| 59 | C | Methyl methacrylate | 40.000 | 37.602 | 6.0 | 93 | 0.00 |
| 60 | CP | Bromodichloromethane | 40.000 | 39.270 | 1.8 | 94 | 0.00 |
| 61 | C | 2-Chloroethyl vinyl ether | 40.000 | 0.352 | 99.1# | 1 | 0.04 |
| 62 | C | 2-Nitropropane | 40.000 | 39.572 | 1.1 | 102 | 0.00 |
| 63 | CP | cis-1,3-Dichloropropene | 40.000 | 36.892 | 7.8 | 95 | 0.00 |
| 64 | I | Chlorobenzene-d5 | 20.000 | 20.000 | 0.0 | 105 | 0.00 |
| 65 | CP | 4-Methyl-2-pentanone | 40.000 | 66.789 | -67.0# | 163 | 0.00 |
| 66 | S | Toluene-d8 | 20.000 | 20.789 | -3.9 | 107 | 0.00 |
| 67 | CP | Toluene | 40.000 | 39.938 | 0.2 | 97 | 0.00 |
| 68 | CP | trans-1,3-Dichloropropene | 40.000 | 37.728 | 5.7 | 92 | 0.00 |
| 69 | T | Chloropicrin | 400.000 | 0.000 | 100.0# | 0 | -8.06# |
| 70 | C | Ethyl methacrylate | 40.000 | 43.100 | -7.8 | 108 | 0.00 |
| 71 | CP | 1,1,2-Trichloroethane | 40.000 | 41.287 | -3.2 | 99 | 0.00 |
| 72 | CP | Tetrachloroethene | 40.000 | 40.518 | -1.3 | 99 | 0.00 |
| 73 | C | 1,3-Dichloropropane | 40.000 | 40.358 | -0.9 | 98 | 0.00 |
| 74 | CP | 2-Hexanone | 40.000 | 45.248 | -13.1 | 112 | 0.00 |
| 75 | CP | Chlorodibromomethane | 40.000 | 35.627 | 10.9 | 88 | 0.00 |
| 76 | T | Butyl acetate | 40.000 | 35.092 | 12.3 | 87 | 0.00 |
| 77 | CP | 1,2-Dibromoethane | 40.000 | 47.684 | -19.2 | 114 | 0.00 |
| 78 | CP | Chlorobenzene | 40.000 | 38.948 | 2.6 | 94 | 0.00 |
| 79 | C | 1,1,1,2-Tetrachloroethane | 40.000 | 40.559 | -1.4 | 97 | 0.00 |
| 80 | CP | Ethylbenzene | 40.000 | 38.954 | 2.6 | 97 | 0.00 |
| 81 | CP | m/p-Xylene | 80.000 | 77.935 | 2.6 | 96 | 0.00 |
| 82 | CP | Styrene | 40.000 | 43.088 | -7.7 | 99 | 0.00 |
| 83 | CP | o-Xylene | 40.000 | 40.118 | -0.3 | 101 | 0.00 |
| 84 | C | Cyclohexanone | 200.000 | 2.289 | 98.9# | 1 | 0.01 |
| 85 | CP | Bromoform | 40.000 | 36.838 | 7.9 | 91 | 0.00 |
| 86 | CP | Isopropylbenzene | 40.000 | 38.659 | 3.4 | 95 | 0.00 |
| 87 | S | Bromofluorobenzene | 20.000 | 20.437 | -2.2 | 103 | 0.00 |
| 88 | C | Bromobenzene | 40.000 | 40.952 | -2.4 | 96 | 0.00 |
| 89 | C | 1,2,3-Trichloropropane | 40.000 | 39.549 | 1.1 | 99 | 0.00 |
| 90 | C | trans-1,4-Dichloro-2-butene | 40.000 | 39.451 | 1.4 | 88 | 0.00 |
| 91 | C | n-Propylbenzene | 40.000 | 36.612 | 8.5 | 93 | 0.00 |
| 92 | C | 2-Chlorotoluene | 40.000 | 41.647 | -4.1 | 94 | 0.00 |
| 93 | C | 4-Chlorotoluene | 40.000 | 38.119 | 4.7 | 96 | 0.00 |
| 94 | C | 1,3,5-Trimethylbenzene | 40.000 | 39.189 | 2.0 | 97 | 0.00 |
| 95 | C | tert-Butylbenzene | 40.000 | 36.958 | 7.6 | 97 | 0.00 |
| 96 | C | 1,2,4-Trimethylbenzene | 40.000 | 38.799 | 3.0 | 96 | 0.00 |
| 97 | C | sec-Butylbenzene | 40.000 | 38.391 | 4.0 | 95 | 0.00 |
| 98 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 102 | 0.00 |
| 99 | CP | 1,1,2,2-Tetrachloroethane | 40.000 | 41.588 | -4.0 | 105 | 0.00 |
| 100 | CP | 1,3-Dichlorobenzene | 40.000 | 39.086 | 2.3 | 93 | 0.00 |
| 101 | C | p-Isopropyltoluene | 40.000 | 38.361 | 4.1 | 93 | 0.00 |
| 102 | CP | 1,4-Dichlorobenzene | 40.000 | 38.283 | 4.3 | 95 | 0.00 |
| 103 | C | 1,2,3-Trimethylbenzene | 40.000 | 39.042 | 2.4 | 98 | 0.00 |
| 104 | C | Benzyl chloride | 40.000 | 16.833 | 57.9# | 36 | -0.10 |
| 105 | CP | 1,2-Dichlorobenzene | 40.000 | 39.340 | 1.6 | 95 | 0.00 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 10:00:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 106 | T | n-Butylbenzene | 40.000 | 38.495 | 3.8 | 94 | 0.00 |
| 107 | C | Hexachloroethane | 40.000 | 36.399 | 9.0 | 89 | 0.00 |
| 108 | CP | 1,2-Dibromo-3-chloropropane | 40.000 | 40.154 | -0.4 | 99 | 0.00 |
| 109 | C | 1,3,5-Trichlorobenzene | 40.000 | 0.498 | 98.8# | 1 | 0.00 |
| 110 | CP | 1,2,4-Trichlorobenzene | 40.000 | 38.478 | 3.8 | 95 | 0.00 |
| 111 | C | Hexachlorobutadiene | 40.000 | 38.001 | 5.0 | 93 | 0.00 |
| 112 | C | Naphthalene | 40.000 | 42.324 | -5.8 | 97 | 0.00 |
| 113 | C | 1,2,3-Trichlorobenzene | 40.000 | 37.859 | 5.4 | 93 | 0.00 |
| 114 | C | 2-Methylnaphthalene | 40.000 | 0.814 | 98.0# | 1 | 0.00 |
| 115 | C | 1-Methylnaphthalene | 40.000 | 0.519 | 98.7# | 1 | 0.00 |
| 116 | I | Ethyl-d5-Acetate-d3 | 20.000 | 20.000 | 0.0 | 105 | 0.00 |
| 117 | T | 2-Propanone | 40.000 | 43.588 | -9.0 | 105 | 0.00 |
| 118 | T | Acetic Ether | 40.000 | 41.884 | -4.7 | 88 | 0.00 |
| 119 | T | Isopropyl Acetate | 40.000 | 34.902 | 12.7 | 88 | 0.00 |
| 120 | T | Amyl Acetate | 40.000 | 34.279 | 14.3 | 85 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 20

# Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
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Quant Title : 8260 Global Optimization Method
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Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 2 | CP | Dichlorodifluoromethane | 0.591 | 0.491 | 16.9 | 79 | 0.00 |
| 3 | CP | Chloromethane | 0.846 | 0.630 | 25.5# | 77 | 0.00 |
| 4 | CP | Vinyl chloride | 0.557 | 0.485 | 12.9 | 85 | 0.00 |
| 5 | CP | Bromomethane | 0.164 | 0.171 | -4.3 | 122 | 0.00 |
| 6 | CP | Chloroethane | 0.416 | 0.304 | 26.9# | 93 | 0.00 |
| 7 | CP | Trichlorofluoromethane | 0.627 | 0.553 | 11.8 | 88 | 0.00 |
| 8 | C | Ethanol | 0.047 | 0.039# | 17.0 | 95 | 0.00 |
| 9 | C | Ethyl ether | 0.384 | 0.401 | -4.4 | 103 | 0.00 |
| 10 | C | Acrolein | 0.133 | 0.000# | 100.0# | 0# | 0.00 |
| 11 | CP | 1,1-Dichloroethene | 0.639 | 0.667 | -4.4 | 101 | 0.00 |
| 12 | CP | 1,1,2-Trichlorotrifluoroeth | 0.299 | 0.002# | 99.3# | 1# | 0.00 |
| 13 | C | Methyl iodide | 0.099 | 0.176# | -77.8# | 190 | 0.00 |
| 14 | CP | Acetone | 0.446 | 0.391 | 12.3 | 105 | 0.00 |
| 15 | C | 2-Propanol | 0.095 | 0.116# | -22.1# | 125 | 0.00 |
| 16 | C | Chloroprene | 0.567 | 0.002# | 99.6# | 0# | 0.00 |
| 17 | CP | Carbon disulfide | 1.121 | 1.182 | -5.4 | 110 | 0.00 |
| 18 | C | Allyl chloride | 0.720 | 0.602 | 16.4 | 81 | 0.00 |
| 19 | CP | Methyl acetate | 0.811 | 0.012# | 98.5# | 2# | 0.00 |
| 20 | C | Acetonitrile | 0.720 | 0.602 | 16.4 | 81 | 0.00 |
| 21 | CP | Methylene chloride | 0.794 | 0.627 | 21.0# | 99 | 0.00 |
| 22 | CP | trans-1,2-Dichloroethene | 0.632 | 0.661 | -4.6 | 101 | 0.00 |
| 23 | C | t-Butanol | 0.145 | 0.159# | -9.7 | 114 | 0.00 |
| 24 | C | Acrylonitrile | 0.376 | 0.427 | -13.6 | 103 | 0.00 |
| 25 | CP | Methyl tert-butyl ether | 1.281 | 1.419 | -10.8 | 104 | 0.00 |
| 26 | T | Hexane | 0.399 | 0.005# | 98.7# | 1# | 0.00 |
| 27 | CP | 1,1-Dichloroethane | 0.867 | 0.857 | 1.2 | 98 | 0.00 |
| 28 | CP | Diisopropyl ether | 1.319 | 1.329 | -0.8 | 95 | 0.00 |
| 29 | C | Vinyl acetate | 0.082 | 0.001# | 98.8# | 1# | -0.02 |
| 30 | CP | Ethyl tert butyl ether | 1.181 | 1.233 | -4.4 | 100 | 0.00 |
| 31 | C | 2,2-Dichloropropane | 0.530 | 0.509 | 4.0 | 95 | 0.00 |
| 32 | CP | cis-1,2-Dichloroethene | 0.719 | 0.748 | -4.0 | 100 | 0.00 |
| 33 | CP | 2-Butanone | 0.416 | 0.511 | -22.8# | 104 | 0.00 |
| 34 | C | Ethyl Acetate | 0.949 | 0.813 | 14.3 | 86 | 0.00 |
| 35 | C | Methyl acrylate | 0.701 | 0.828 | -18.1 | 106 | 0.00 |
| 36 | C | Propionitrile | 0.086 | 0.000# | 100.0# | 0# | -4.99# |
| 37 | C | Bromochloromethane | 0.400 | 0.386 | 3.5 | 99 | 0.00 |
| 38 | C | Tetrahydrofuran | 0.328 | 0.373 | -13.7 | 105 | 0.00 |
| 39 | C | Methacrylonitrile | 0.530 | 0.525 | 0.9 | 107 | 0.00 |
| 40 | CP | Chloroform | 0.836 | 0.822 | 1.7 | 96 | 0.00 |
| 41 | CP | Cyclohexane | 0.866 | 0.012# | 98.6# | 2# | 0.00 |
| 42 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 43 | CP | 1,1,1-Trichloroethane | 0.379 | 0.390 | -2.9 | 99 | 0.00 |
| 44 | S | Dibromofluoromethane | 0.353 | 0.345 | 2.3 | 106 | 0.00 |
| 45 | CP | Carbon tetrachloride | 0.306 | 0.308 | -0.7 | 94 | 0.00 |
| 46 | C | 1,1-Dichloropropene | 0.364 | 0.363 | 0.3 | 94 | 0.00 |
| 47 | S | 1,2-Dichloroethane-d4 | 0.432 | 0.412 | 4.6 | 104 | 0.00 |
| 48 | CP | 1,2-Dichloroethane | 0.440 | 0.424 | 3.6 | 98 | 0.00 |
| 49 | CP | Benzene | 1.184 | 1.187 | -0.3 | 98 | 0.00 |
| 50 | CP | Tertiaryamylmethylether | 0.680 | 0.763 | -12.2 | 105 | 0.00 |
| 51 | C | Isobutyl Alcohol | 0.267 | 0.233 | 12.7 | 103 | 0.00 |
| 52 | C | Heptane | 0.187 | 0.001# | 99.5# | 0# | -0.01 |
| 53 | C | 1,4-Dioxane | 0.008 | 0.000# | 100.0# | 0# | 0.00 |

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 10:00:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 54 | CP | Methylcyclohexane | 0.340 | 0.002# | 99.4# | 0# | 0.00 |
| 55 | T | n-Butanol | 0.016 | 0.000# | 100.0# | 0# | -6.57# |
| 56 | CP | Trichloroethene | 0.290 | 0.280 | 3.4 | 95 | 0.00 |
| 57 | CP | 1,2-Dichloropropane | 0.304 | 0.315 | -3.6 | 97 | 0.00 |
| 58 | C | Dibromomethane | 0.204 | 0.209 | -2.5 | 97 | 0.00 |
| 59 | C | Methyl methacrylate | 0.323 | 0.349 | -8.0 | 93 | 0.00 |
| 60 | CP | Bromodichloromethane | 0.358 | 0.352 | 1.7 | 94 | 0.00 |
| 61 | C | 2-Chloroethyl vinyl ether | 0.086 | 0.001# | 98.8# | 1# | 0.04 |
| 62 | C | 2-Nitropropane | 0.117 | 0.121# | -3.4 | 102 | 0.00 |
| 63 | CP | cis-1,3-Dichloropropene | 0.396 | 0.424 | -7.1 | 95 | 0.00 |
| 64 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 65 | CP | 4-Methyl-2-pentanone | 0.456 | 0.865 | -89.7# | 163 | 0.00 |
| 66 | S | Toluene-d8 | 1.370 | 1.424 | -3.9 | 107 | 0.00 |
| 67 | CP | Toluene | 1.299 | 1.297 | 0.2 | 97 | 0.00 |
| 68 | CP | trans-1,3-Dichloropropene | 0.361 | 0.393 | -8.9 | 92 | 0.00 |
| 69 | T | Chloropicrin | 0.000 | 0.000# | 0.0 | 0# | -8.06# |
| 70 | C | Ethyl methacrylate | 0.400 | 0.497 | -24.2# | 108 | 0.00 |
| 71 | CP | 1,1,2-Trichloroethane | 0.322 | 0.333 | -3.4 | 99 | 0.00 |
| 72 | CP | Tetrachloroethene | 0.308 | 0.312 | -1.3 | 99 | 0.00 |
| 73 | C | 1,3-Dichloropropane | 0.554 | 0.559 | -0.9 | 98 | 0.00 |
| 74 | CP | 2-Hexanone | 0.341 | 0.449 | -31.7# | 112 | 0.00 |
| 75 | CP | Chlorodibromomethane | 0.285 | 0.282 | 1.1 | 88 | 0.00 |
| 76 | T | Butyl acetate | 0.547 | 0.562 | -2.7 | 87 | 0.00 |
| 77 | CP | 1,2-Dibromoethane | 0.288 | 0.344 | -19.4 | 114 | 0.00 |
| 78 | CP | Chlorobenzene | 0.801 | 0.780 | 2.6 | 94 | 0.00 |
| 79 | C | 1,1,1,2-Tetrachloroethane | 0.263 | 0.267 | -1.5 | 97 | 0.00 |
| 80 | CP | Ethylbenzene | 1.264 | 1.337 | -5.8 | 97 | 0.00 |
| 81 | CP | m/p-Xylene | 0.969 | 1.042 | -7.5 | 96 | 0.00 |
| 82 | CP | Styrene | 0.723 | 0.836 | -15.6 | 99 | 0.00 |
| 83 | CP | o-Xylene | 0.981 | 1.069 | -9.0 | 101 | 0.00 |
| 84 | C | Cyclohexanone | 0.025 | 0.000# | 100.0# | 1# | 0.01 |
| 85 | CP | Bromoform | 0.183 | 0.185 | -1.1 | 91 | 0.00 |
| 86 | CP | Isopropylbenzene | 1.116 | 1.208 | -8.2 | 95 | 0.00 |
| 87 | S | Bromofluorobenzene | 0.490 | 0.501 | -2.2 | 103 | 0.00 |
| 88 | C | Bromobenzene | 0.757 | 0.775 | -2.4 | 96 | 0.00 |
| 89 | C | 1,2,3-Trichloropropane | 0.168 | 0.166# | 1.2 | 99 | 0.00 |
| 90 | C | trans-1,4-Dichloro-2-butene | 0.140 | 0.138# | 1.4 | 88 | 0.00 |
| 91 | C | n-Propylbenzene | 1.314 | 1.426 | -8.5 | 93 | 0.00 |
| 92 | C | 2-Chlorotoluene | 0.832 | 0.867 | -4.2 | 94 | 0.00 |
| 93 | C | 4-Chlorotoluene | 0.952 | 1.007 | -5.8 | 96 | 0.00 |
| 94 | C | 1,3,5-Trimethylbenzene | 0.882 | 0.976 | -10.7 | 97 | 0.00 |
| 95 | C | tert-Butylbenzene | 0.506 | 0.548 | -8.3 | 97 | 0.00 |
| 96 | C | 1,2,4-Trimethylbenzene | 0.915 | 1.013 | -10.7 | 96 | 0.00 |
| 97 | C | sec-Butylbenzene | 1.020 | 1.098 | -7.6 | 95 | 0.00 |
| 98 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 99 | CP | 1,1,2,2-Tetrachloroethane | 1.132 | 1.177 | -4.0 | 105 | 0.00 |
| 100 | CP | 1,3-Dichlorobenzene | 1.179 | 1.153 | 2.2 | 93 | 0.00 |
| 101 | C | p-Isopropyltoluene | 1.780 | 1.919 | -7.8 | 93 | 0.00 |
| 102 | CP | 1,4-Dichlorobenzene | 1.238 | 1.184 | 4.4 | 95 | 0.00 |
| 103 | C | 1,2,3-Trimethylbenzene | 1.940 | 2.178 | -12.3 | 98 | 0.00 |
| 104 | C | Benzyl chloride | 0.821 | 0.352 | 57.1# | 36# | -0.10 |
| 105 | CP | 1,2-Dichlorobenzene | 1.157 | 1.138 | 1.6 | 95 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\10V180913\
Data File : 13SEP17.D
Acq On : 13 Sep 2018 08:39 pm
Operator : LNS
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 10:00:30 2018
Quant Method : \\Nahllw7051\D\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 106 | T | n-Butylbenzene | 1.558 | 1.648 | -5.8 | 94 | 0.00 |
| 107 | C | Hexachloroethane | 0.283 | 0.282 | 0.4 | 89 | 0.00 |
| 108 | CP | 1,2-Dibromo-3-chloropropane | 0.231 | 0.251 | -8.7 | 99 | 0.00 |
| 109 | C | 1,3,5-Trichlorobenzene | 0.694 | 0.009# | 98.7# | 1# | 0.00 |
| 110 | CP | 1,2,4-Trichlorobenzene | 0.642 | 0.652 | -1.6 | 95 | 0.00 |
| 111 | C | Hexachlorobutadiene | 0.247 | 0.235 | 4.9 | 93 | 0.00 |
| 112 | C | Naphthalene | 2.261 | 2.577 | -14.0 | 97 | 0.00 |
| 113 | C | 1,2,3-Trichlorobenzene | 0.657 | 0.668 | -1.7 | 93 | 0.00 |
| 114 | C | 2-Methylnaphthalene | 0.890 | 0.012# | 98.7# | 1# | 0.00 |
| 115 | C | 1-Methylnaphthalene | 0.917 | 0.007# | 99.2# | 1# | 0.00 |
| 116 | I | Ethyl-d5-Acetate-d3 | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 117 | T | 2-Propanone | 1.081 | 0.852 | 21.2# | 105 | 0.00 |
| 118 | T | Acetic Ether | 1.690 | 1.770 | -4.7 | 88 | 0.00 |
| 119 | T | Isopropyl Acetate | 0.413 | 0.443 | -7.3 | 88 | 0.00 |
| 120 | T | Amyl Acetate | 1.358 | 1.417 | -4.3 | 85 | 0.00 |

(#) = Out of Range SPCC's out = 4 CCC's out = 25

2018 Sep 13 1436 Sequence Log .LOG

Starting sequence Thu Sep 13 14:36:05 2018

Instrument Name: 5977_VOA
Sequence File: D:\MassHunter\GCMS\1\sequence\10V180913.sequence.xml
Comment:
Operator: LNS
Data Path: D:\MassHunter\GCMS\1\data\10V180913\

| Line | Type | Vials | DataFile | Sample Name |
|---|---|---|---|---|
| Acquisition Method Path: D:\MassHunter\GCMS\1\methods\RUN METHODS\ | | | | |
| Acquisition Method File: BFB.M | | | | |
| 1) | TuneCheck | 1 | 13SEP01 | VBFB1-180913 |
| Acquisition Method Path: D:\MassHunter\GCMS\1\methods\RUN METHODS\ | | | | |
| Acquisition Method File: U10GO8260.M | | | | |
| 2) | Sample | 1 | 13SEP02 | VCCV1-180913 |
| 3) | Sample | 2 | 13SEP03 | VCCV2-180913 |
| 4) | Sample | 3 | 13SEP04 | VCCV3-180913 |
| 5) | Sample | 3 | 13SEP05 | VLCSW1-180913 |
| 6) | Sample | 3 | 13SEP06 | BLK |
| 7) | Sample | 4 | 13SEP07 | VBLKW1-180913 |
| 8) | Sample | 5 | 13SEP08 | 0.4PPB |
| 9) | Sample | 6 | 13SEP09 | 0.6PPB |
| 10) | Sample | 7 | 13SEP10 | 2PPB |
| 11) | Sample | 8 | 13SEP11 | 4PPB |
| 12) | Sample | 9 | 13SEP12 | 10PPB |
| 13) | Sample | 10 | 13SEP13 | 40PPB |
| 14) | Sample | 11 | 13SEP14 | 70PPB |
| 15) | Sample | 12 | 13SEP15 | 100PPB |
| 16) | Sample | 13 | 13SEP16 | BLK |
| 17) | Sample | 14 | 13SEP17 | ICV |
| 18) | Sample | 15 | 13SEP18 | BLK |
| Acquisition Method Path: D:\MassHunter\GCMS\1\methods\RUN METHODS\ | | | | |
| Acquisition Method File: BFB.M | | | | |
| 19) | Sample | 16 | 13SEP19 | VBFB2-180913 |
| Acquisition Method Path: D:\MassHunter\GCMS\1\methods\RUN METHODS\ | | | | |
| Acquisition Method File: U10GO8260.M | | | | |
| 20) | Sample | 17 | 13SEP20 | VCCV4-180913 |
| 21) | Sample | 18 | 13SEP21 | VCCV5-180913 |
| 22) | Sample | 19 | 13SEP22 | VLCSW2-180913 |
| 23) | Sample | 20 | 13SEP23 | VLCSW3-180913 |
| 24) | Sample | 21 | 13SEP24 | BLK |
| 25) | Sample | 22 | 13SEP25 | VBLKW2-180913 |
| 26) | Sample | 23 | 13SEP26 | 1809498-44A |
| 27) | Sample | 24 | 13SEP27 | 1809498-07A DF25 |
| 28) | Sample | 25 | 13SEP28 | 1809498-31A DF20 |
| 29) | Sample | 26 | 13SEP29 | 1809498-32A DF50 |
| 30) | Sample | 27 | 13SEP30 | 1809498-33A DF50 |
| 31) | Sample | 28 | 13SEP31 | 1809498-34A DF50 |
| 32) | Sample | 29 | 13SEP32 | 1809498-35A DF5 |
| 33) | Sample | 30 | 13SEP33 | 1809498-36A DF5 |
| 34) | Sample | 31 | 13SEP34 | 1809498-37A DF5 |
| 35) | Sample | 32 | 13SEP35 | 1809498-38A DF20 |
| 36) | Sample | 33 | 13SEP36 | 1809498-39A DF100 |
| 37) | Sample | 34 | 13SEP37 | 1809498-40A |
| 38) | Sample | 35 | 13SEP38 | 1809498-41A |
| 39) | Sample | 36 | 13SEP39 | 1809498-42A DF500 |
| 40) | Sample | 37 | 13SEP40 | 1809498-43A DF10000 |
| 41) | Sample | 38 | 13SEP41 | 1809498-16A |
| 42) | Sample | 39 | 13SEP42 | 1809498-26A |

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                    2018 Sep 13 1436 Sequence Log .LOG
43) Sample          40      13SEP43                1809498-22A DF1000
44) Sample          41      13SEP44                1809498-18A DF10
45) Sample          42      13SEP45                1809498-24A DF5
46) Sample          43      13SEP46                1809498-33A MS DF50
47) Sample          44      13SEP47                1809498-33A MSD DF50
48) Sample          45      13SEP48                BLK

Sequence completed Fri Sep 14 05:22:50 2018

  D:\MassHunter\GCMS\1\data\10V180913\2018 Sep 13 1436 Quality Log.LOG
  D:\MassHunter\GCMS\1\data\10V180913\2018 Sep 13 1436 Sequence Log .LOG
```

# Evaluate Continuing Calibration Report

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 20.000 | 20.000 | 0.0 | 99 | 0.00 |
| 2 | CP | Dichlorodifluoromethane | 40.000 | 42.109 | -5.3 | 94 | 0.00 |
| 3 | CP | Chloromethane | 40.000 | 34.777 | 13.1 | 85 | 0.00 |
| 4 | CP | Vinyl chloride | 40.000 | 40.283 | -0.7 | 94 | 0.00 |
| 5 | CP | Bromomethane | 40.000 | 66.658 | -66.6# | 162 | 0.00 |
| 6 | CP | Chloroethane | 40.000 | 40.557 | -1.4 | 93 | 0.00 |
| 7 | CP | Trichlorofluoromethane | 40.000 | 41.030 | -2.6 | 97 | 0.00 |
| 8 | C | Ethanol | 800.000 | 919.492 | -14.9 | 103 | 0.00 |
| 9 | C | Ethyl ether | 40.000 | 42.095 | -5.2 | 98 | 0.00 |
| 10 | C | Acrolein | 200.000 | 178.808 | 10.6 | 87 | 0.00 |
| 11 | CP | 1,1-Dichloroethene | 40.000 | 39.680 | 0.8 | 91 | 0.00 |
| 12 | CP | 1,1,2-Trichlorotrifluoroeth | 40.000 | 37.631 | 5.9 | 90 | 0.00 |
| 13 | C | Methyl iodide | 40.000 | 58.796 | -47.0# | 151 | 0.00 |
| 14 | CP | Acetone | 40.000 | 39.692 | 0.8 | 90 | 0.00 |
| 15 | C | 2-Propanol | 800.000 | 642.040 | 19.7 | 78 | 0.00 |
| 16 | C | Chloroprene | 40.000 | 41.122 | -2.8 | 99 | 0.00 |
| 17 | CP | Carbon disulfide | 40.000 | 42.071 | -5.2 | 104 | 0.00 |
| 18 | C | Allyl chloride | 40.000 | 42.662 | -6.7 | 98 | 0.00 |
| 19 | CP | Methyl acetate | 40.000 | 42.716 | -6.8 | 99 | 0.00 |
| 20 | C | Acetonitrile | 40.000 | 42.662 | -6.7 | 98 | 0.00 |
| 21 | CP | Methylene chloride | 40.000 | 40.698 | -1.7 | 94 | 0.00 |
| 22 | CP | trans-1,2-Dichloroethene | 40.000 | 43.316 | -8.3 | 99 | 0.00 |
| 23 | C | t-Butanol | 200.000 | 209.256 | -4.6 | 103 | 0.00 |
| 24 | C | Acrylonitrile | 40.000 | 43.640 | -9.1 | 94 | 0.00 |
| 25 | CP | Methyl tert-butyl ether | 40.000 | 45.416 | -13.5 | 101 | 0.00 |
| 26 | T | Hexane | 40.000 | 50.428 | -26.1# | 112 | 0.00 |
| 27 | CP | 1,1-Dichloroethane | 40.000 | 41.463 | -3.7 | 98 | 0.00 |
| 28 | CP | Diisopropyl ether | 40.000 | 45.083 | -12.7 | 101 | 0.00 |
| 29 | C | Vinyl acetate | 40.000 | 52.745 | -31.9# | 127 | 0.00 |
| 30 | CP | Ethyl tert butyl ether | 40.000 | 43.805 | -9.5 | 100 | 0.00 |
| 31 | C | 2,2-Dichloropropane | 40.000 | 44.729 | -11.8 | 105 | 0.00 |
| 32 | CP | cis-1,2-Dichloroethene | 40.000 | 42.207 | -5.5 | 96 | 0.00 |
| 33 | CP | 2-Butanone | 40.000 | 40.483 | -1.2 | 94 | 0.00 |
| 34 | C | Ethyl Acetate | 40.000 | 41.023 | -2.6 | 97 | 0.00 |
| 35 | C | Methyl acrylate | 40.000 | 38.893 | 2.8 | 95 | 0.00 |
| 36 | C | Propionitrile | 40.000 | 45.988 | -15.0 | 104 | 0.00 |
| 37 | C | Bromochloromethane | 40.000 | 40.186 | -0.5 | 98 | 0.00 |
| 38 | C | Tetrahydrofuran | 40.000 | 39.832 | 0.4 | 96 | 0.00 |
| 39 | C | Methacrylonitrile | 40.000 | 37.818 | 5.5 | 93 | 0.00 |
| 40 | CP | Chloroform | 40.000 | 41.719 | -4.3 | 97 | 0.00 |
| 41 | CP | Cyclohexane | 40.000 | 40.655 | -1.6 | 98 | 0.00 |
| 42 | I | 1,4-Difluorobenzene | 20.000 | 20.000 | 0.0 | 99 | 0.00 |
| 43 | CP | 1,1,1-Trichloroethane | 40.000 | 43.355 | -8.4 | 98 | 0.00 |
| 44 | S | Dibromofluoromethane | 20.000 | 19.756 | 1.2 | 101 | 0.00 |
| 45 | CP | Carbon tetrachloride | 40.000 | 45.067 | -12.7 | 100 | 0.00 |
| 46 | C | 1,1-Dichloropropene | 40.000 | 43.344 | -8.4 | 97 | 0.00 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | S | 1,2-Dichloroethane-d4 | 20.000 | 19.400 | 3.0 | 100 | 0.00 |
| 48 | CP | 1,2-Dichloroethane | 40.000 | 40.093 | -0.2 | 97 | 0.00 |
| 49 | CP | Benzene | 40.000 | 44.327 | -10.8 | 102 | 0.00 |
| 50 | CP | Tertiaryamylmethylether | 40.000 | 45.796 | -14.5 | 102 | 0.00 |
| 51 | C | Isobutyl Alcohol | 40.000 | 41.536 | -3.8 | 98 | 0.00 |
| 52 | C | Heptane | 40.000 | 53.619 | -34.0# | 119 | -0.01 |
| 53 | C | 1,4-Dioxane | 4000.000 | 3844.467 | 3.9 | 92 | 0.00 |
| 54 | CP | Methylcyclohexane | 40.000 | 41.448 | -3.6 | 100 | 0.00 |
| 55 | T | n-Butanol | 400.000 | 415.599 | -3.9 | 100 | 0.00 |
| 56 | CP | Trichloroethene | 40.000 | 41.755 | -4.4 | 97 | 0.00 |
| 57 | CP | 1,2-Dichloropropane | 40.000 | 42.066 | -5.2 | 94 | 0.00 |
| 58 | C | Dibromomethane | 40.000 | 42.761 | -6.9 | 96 | 0.00 |
| 59 | C | Methyl methacrylate | 40.000 | 40.252 | -0.6 | 95 | 0.00 |
| 60 | CP | Bromodichloromethane | 40.000 | 43.406 | -8.5 | 98 | 0.00 |
| 61 | C | 2-Chloroethyl vinyl ether | 40.000 | 31.051 | 22.4# | 75 | 0.00 |
| 62 | C | 2-Nitropropane | 40.000 | 40.255 | -0.6 | 98 | 0.00 |
| 63 | CP | cis-1,3-Dichloropropene | 40.000 | 39.843 | 0.4 | 98 | 0.00 |
| 64 | I | Chlorobenzene-d5 | 20.000 | 20.000 | 0.0 | 98 | 0.00 |
| 65 | CP | 4-Methyl-2-pentanone | 40.000 | 42.474 | -6.2 | 96 | 0.00 |
| 66 | S | Toluene-d8 | 20.000 | 20.744 | -3.7 | 100 | 0.00 |
| 67 | CP | Toluene | 40.000 | 42.593 | -6.5 | 96 | 0.00 |
| 68 | CP | trans-1,3-Dichloropropene | 40.000 | 41.558 | -3.9 | 96 | 0.00 |
| 69 | T | Chloropicrin | 400.000 | 0.000 | 100.0# | 0 | 0.00 |
| 70 | C | Ethyl methacrylate | 40.000 | 40.898 | -2.2 | 95 | 0.00 |
| 71 | CP | 1,1,2-Trichloroethane | 40.000 | 42.801 | -7.0 | 96 | 0.00 |
| 72 | CP | Tetrachloroethene | 40.000 | 43.813 | -9.5 | 100 | 0.00 |
| 73 | C | 1,3-Dichloropropane | 40.000 | 41.846 | -4.6 | 94 | 0.00 |
| 74 | CP | 2-Hexanone | 40.000 | 41.742 | -4.4 | 96 | 0.00 |
| 75 | CP | Chlorodibromomethane | 40.000 | 41.798 | -4.5 | 97 | 0.00 |
| 76 | T | Butyl acetate | 40.000 | 42.990 | -7.5 | 100 | 0.00 |
| 77 | CP | 1,2-Dibromoethane | 40.000 | 38.571 | 3.6 | 86 | 0.00 |
| 78 | CP | Chlorobenzene | 40.000 | 42.574 | -6.4 | 96 | 0.00 |
| 79 | C | 1,1,1,2-Tetrachloroethane | 40.000 | 42.804 | -7.0 | 96 | 0.00 |
| 80 | CP | Ethylbenzene | 40.000 | 41.206 | -3.0 | 96 | 0.00 |
| 81 | CP | m/p-Xylene | 80.000 | 84.098 | -5.1 | 97 | 0.00 |
| 82 | CP | Styrene | 40.000 | 45.242 | -13.1 | 98 | 0.00 |
| 83 | CP | o-Xylene | 40.000 | 40.990 | -2.5 | 96 | 0.00 |
| 84 | C | Cyclohexanone | 200.000 | 208.982 | -4.5 | 102 | 0.00 |
| 85 | CP | Bromoform | 40.000 | 42.384 | -6.0 | 98 | 0.00 |
| 86 | CP | Isopropylbenzene | 40.000 | 41.485 | -3.7 | 96 | 0.00 |
| 87 | S | Bromofluorobenzene | 20.000 | 20.989 | -4.9 | 98 | 0.00 |
| 88 | C | Bromobenzene | 40.000 | 43.799 | -9.5 | 96 | 0.00 |
| 89 | C | 1,2,3-Trichloropropane | 40.000 | 40.604 | -1.5 | 94 | 0.00 |
| 90 | C | trans-1,4-Dichloro-2-butene | 40.000 | 46.129 | -15.3 | 97 | 0.00 |
| 91 | C | n-Propylbenzene | 40.000 | 41.297 | -3.2 | 98 | 0.00 |
| 92 | C | 2-Chlorotoluene | 40.000 | 45.694 | -14.2 | 96 | 0.00 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 93 | C | 4-Chlorotoluene | 40.000 | 41.311 | -3.3 | 97 | 0.00 |
| 94 | C | 1,3,5-Trimethylbenzene | 40.000 | 42.195 | -5.5 | 98 | 0.00 |
| 95 | C | tert-Butylbenzene | 40.000 | 39.447 | 1.4 | 96 | 0.00 |
| 96 | C | 1,2,4-Trimethylbenzene | 40.000 | 41.756 | -4.4 | 97 | 0.00 |
| 97 | C | sec-Butylbenzene | 40.000 | 41.560 | -3.9 | 96 | 0.00 |
| 98 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 97 | 0.00 |
| 99 | CP | 1,1,2,2-Tetrachloroethane | 40.000 | 39.841 | 0.4 | 96 | 0.00 |
| 100 | CP | 1,3-Dichlorobenzene | 40.000 | 42.511 | -6.3 | 96 | 0.00 |
| 101 | C | p-Isopropyltoluene | 40.000 | 41.807 | -4.5 | 97 | 0.00 |
| 102 | CP | 1,4-Dichlorobenzene | 40.000 | 40.804 | -2.0 | 96 | 0.00 |
| 103 | C | 1,2,3-Trimethylbenzene | 40.000 | 40.535 | -1.3 | 97 | 0.00 |
| 104 | C | Benzyl chloride | 40.000 | 47.771 | -19.4 | 113 | 0.00 |
| 105 | CP | 1,2-Dichlorobenzene | 40.000 | 42.241 | -5.6 | 96 | 0.00 |
| 106 | T | n-Butylbenzene | 40.000 | 42.348 | -5.9 | 99 | 0.00 |
| 107 | C | Hexachloroethane | 40.000 | 42.155 | -5.4 | 99 | 0.00 |
| 108 | CP | 1,2-Dibromo-3-chloropropane | 40.000 | 41.166 | -2.9 | 97 | 0.00 |
| 109 | C | 1,3,5-Trichlorobenzene | 40.000 | 43.705 | -9.3 | 99 | 0.00 |
| 110 | CP | 1,2,4-Trichlorobenzene | 40.000 | 41.659 | -4.1 | 98 | 0.00 |
| 111 | C | Hexachlorobutadiene | 40.000 | 44.070 | -10.2 | 103 | 0.00 |
| 112 | C | Naphthalene | 40.000 | 43.454 | -8.6 | 95 | 0.00 |
| 113 | C | 1,2,3-Trichlorobenzene | 40.000 | 41.327 | -3.3 | 97 | 0.00 |
| 114 | C | 2-Methylnaphthalene | 40.000 | 42.026 | -5.1 | 90 | 0.00 |
| 115 | C | 1-Methylnaphthalene | 40.000 | 41.838 | -4.6 | 87 | 0.00 |
| 116 | I | Ethyl-d5-Acetate-d3 | 20.000 | 20.000 | 0.0 | 100 | 0.00 |
| 117 | T | 2-Propanone | 40.000 | 39.113 | 2.2 | 90 | 0.00 |
| 118 | T | Acetic Ether | 40.000 | 49.773 | -24.4# | 100 | 0.00 |
| 119 | T | Isopropyl Acetate | 40.000 | 40.704 | -1.8 | 98 | 0.00 |
| 120 | T | Amyl Acetate | 40.000 | 41.422 | -3.6 | 99 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 5

# Evaluate Continuing Calibration Report



Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 2 | CP | Dichlorodifluoromethane | 0.591 | 0.622 | -5.2 | 94 | 0.00 |
| 3 | CP | Chloromethane | 0.846 | 0.735 | 13.1 | 85 | 0.00 |
| 4 | CP | Vinyl chloride | 0.557 | 0.561 | -0.7 | 94 | 0.00 |
| 5 | CP | Bromomethane | 0.164 | 0.239 | -45.7# | 162 | 0.00 |
| 6 | CP | Chloroethane | 0.416 | 0.321 | 22.8# | 93 | 0.00 |
| 7 | CP | Trichlorofluoromethane | 0.627 | 0.644 | -2.7 | 97 | 0.00 |
| 8 | C | Ethanol | 0.047 | 0.045# | 4.3 | 103 | 0.00 |
| 9 | C | Ethyl ether | 0.384 | 0.404 | -5.2 | 98 | 0.00 |
| 10 | C | Acrolein | 0.133 | 0.099# | 25.6# | 87 | 0.00 |
| 11 | CP | 1,1-Dichloroethene | 0.639 | 0.634 | 0.8 | 91 | 0.00 |
| 12 | CP | 1,1,2-Trichlorotrifluoroeth | 0.299 | 0.281 | 6.0 | 90 | 0.00 |
| 13 | C | Methyl iodide | 0.099 | 0.147# | -48.5# | 151 | 0.00 |
| 14 | CP | Acetone | 0.446 | 0.355 | 20.4# | 90 | 0.00 |
| 15 | C | 2-Propanol | 0.095 | 0.077# | 18.9 | 78 | 0.00 |
| 16 | C | Chloroprene | 0.567 | 0.679 | -19.8 | 99 | 0.00 |
| 17 | CP | Carbon disulfide | 1.121 | 1.179 | -5.2 | 104 | 0.00 |
| 18 | C | Allyl chloride | 0.720 | 0.767 | -6.5 | 98 | 0.00 |
| 19 | CP | Methyl acetate | 0.811 | 0.812 | -0.1 | 99 | 0.00 |
| 20 | C | Acetonitrile | 0.720 | 0.767 | -6.5 | 98 | 0.00 |
| 21 | CP | Methylene chloride | 0.794 | 0.633 | 20.3# | 94 | 0.00 |
| 22 | CP | trans-1,2-Dichloroethene | 0.632 | 0.685 | -8.4 | 99 | 0.00 |
| 23 | C | t-Butanol | 0.145 | 0.151# | -4.1 | 103 | 0.00 |
| 24 | C | Acrylonitrile | 0.376 | 0.411 | -9.3 | 94 | 0.00 |
| 25 | CP | Methyl tert-butyl ether | 1.281 | 1.455 | -13.6 | 101 | 0.00 |
| 26 | T | Hexane | 0.399 | 0.503 | -26.1# | 112 | 0.00 |
| 27 | CP | 1,1-Dichloroethane | 0.867 | 0.899 | -3.7 | 98 | 0.00 |
| 28 | CP | Diisopropyl ether | 1.319 | 1.487 | -12.7 | 101 | 0.00 |
| 29 | C | Vinyl acetate | 0.082 | 0.127# | -54.9# | 127 | 0.00 |
| 30 | CP | Ethyl tert butyl ether | 1.181 | 1.294 | -9.6 | 100 | 0.00 |
| 31 | C | 2,2-Dichloropropane | 0.530 | 0.592 | -11.7 | 105 | 0.00 |
| 32 | CP | cis-1,2-Dichloroethene | 0.719 | 0.759 | -5.6 | 96 | 0.00 |
| 33 | CP | 2-Butanone | 0.416 | 0.485 | -16.6 | 94 | 0.00 |
| 34 | C | Ethyl Acetate | 0.949 | 0.973 | -2.5 | 97 | 0.00 |
| 35 | C | Methyl acrylate | 0.701 | 0.781 | -11.4 | 95 | 0.00 |
| 36 | C | Propionitrile | 0.086 | 0.094# | -9.3 | 104 | 0.00 |
| 37 | C | Bromochloromethane | 0.400 | 0.402 | -0.5 | 98 | 0.00 |
| 38 | C | Tetrahydrofuran | 0.328 | 0.358 | -9.1 | 96 | 0.00 |
| 39 | C | Methacrylonitrile | 0.530 | 0.483 | 8.9 | 93 | 0.00 |
| 40 | CP | Chloroform | 0.836 | 0.872 | -4.3 | 97 | 0.00 |
| 41 | CP | Cyclohexane | 0.866 | 0.705 | 18.6 | 98 | 0.00 |
| 42 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 43 | CP | 1,1,1-Trichloroethane | 0.379 | 0.411 | -8.4 | 98 | 0.00 |
| 44 | S | Dibromofluoromethane | 0.353 | 0.349 | 1.1 | 101 | 0.00 |
| 45 | CP | Carbon tetrachloride | 0.306 | 0.345 | -12.7 | 100 | 0.00 |
| 46 | C | 1,1-Dichloropropene | 0.364 | 0.394 | -8.2 | 97 | 0.00 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | S | 1,2-Dichloroethane-d4 | 0.432 | 0.419 | 3.0 | 100 | 0.00 |
| 48 | CP | 1,2-Dichloroethane | 0.440 | 0.441 | -0.2 | 97 | 0.00 |
| 49 | CP | Benzene | 1.184 | 1.312 | -10.8 | 102 | 0.00 |
| 50 | CP | Tertiaryamylmethylether | 0.680 | 0.779 | -14.6 | 102 | 0.00 |
| 51 | C | Isobutyl Alcohol | 0.267 | 0.235 | 12.0 | 98 | 0.00 |
| 52 | C | Heptane | 0.187 | 0.251 | -34.2# | 119 | -0.01 |
| 53 | C | 1,4-Dioxane | 0.008 | 0.009# | -12.5 | 92 | 0.00 |
| 54 | CP | Methylcyclohexane | 0.340 | 0.410 | -20.6# | 100 | 0.00 |
| 55 | T | n-Butanol | 0.016 | 0.019# | -18.7 | 100 | 0.00 |
| 56 | CP | Trichloroethene | 0.290 | 0.303 | -4.5 | 97 | 0.00 |
| 57 | CP | 1,2-Dichloropropane | 0.304 | 0.320 | -5.3 | 94 | 0.00 |
| 58 | C | Dibromomethane | 0.204 | 0.218 | -6.9 | 96 | 0.00 |
| 59 | C | Methyl methacrylate | 0.323 | 0.373 | -15.5 | 95 | 0.00 |
| 60 | CP | Bromodichloromethane | 0.358 | 0.389 | -8.7 | 98 | 0.00 |
| 61 | C | 2-Chloroethyl vinyl ether | 0.086 | 0.073# | 15.1 | 75 | 0.00 |
| 62 | C | 2-Nitropropane | 0.117 | 0.123# | -5.1 | 98 | 0.00 |
| 63 | CP | cis-1,3-Dichloropropene | 0.396 | 0.458 | -15.7 | 98 | 0.00 |
| 64 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 65 | CP | 4-Methyl-2-pentanone | 0.456 | 0.549 | -20.4# | 96 | 0.00 |
| 66 | S | Toluene-d8 | 1.370 | 1.421 | -3.7 | 100 | 0.00 |
| 67 | CP | Toluene | 1.299 | 1.383 | -6.5 | 96 | 0.00 |
| 68 | CP | trans-1,3-Dichloropropene | 0.361 | 0.438 | -21.3# | 96 | 0.00 |
| 69 | T | Chloropicrin | 0.000 | 0.039# | 0.0 | 0# | 0.00 |
| 70 | C | Ethyl methacrylate | 0.400 | 0.470 | -17.5 | 95 | 0.00 |
| 71 | CP | 1,1,2-Trichloroethane | 0.322 | 0.345 | -7.1 | 96 | 0.00 |
| 72 | CP | Tetrachloroethene | 0.308 | 0.337 | -9.4 | 100 | 0.00 |
| 73 | C | 1,3-Dichloropropane | 0.554 | 0.579 | -4.5 | 94 | 0.00 |
| 74 | CP | 2-Hexanone | 0.341 | 0.414 | -21.4# | 96 | 0.00 |
| 75 | CP | Chlorodibromomethane | 0.285 | 0.334 | -17.2 | 97 | 0.00 |
| 76 | T | Butyl acetate | 0.547 | 0.689 | -26.0# | 100 | 0.00 |
| 77 | CP | 1,2-Dibromoethane | 0.288 | 0.278 | 3.5 | 86 | 0.00 |
| 78 | CP | Chlorobenzene | 0.801 | 0.852 | -6.4 | 96 | 0.00 |
| 79 | C | 1,1,1,2-Tetrachloroethane | 0.263 | 0.281 | -6.8 | 96 | 0.00 |
| 80 | CP | Ethylbenzene | 1.264 | 1.419 | -12.3 | 96 | 0.00 |
| 81 | CP | m/p-Xylene | 0.969 | 1.128 | -16.4 | 97 | 0.00 |
| 82 | CP | Styrene | 0.723 | 0.885 | -22.4# | 98 | 0.00 |
| 83 | CP | o-Xylene | 0.981 | 1.094 | -11.5 | 96 | 0.00 |
| 84 | C | Cyclohexanone | 0.025 | 0.029# | -16.0 | 102 | 0.00 |
| 85 | CP | Bromoform | 0.183 | 0.215 | -17.5 | 98 | 0.00 |
| 86 | CP | Isopropylbenzene | 1.116 | 1.301 | -16.6 | 96 | 0.00 |
| 87 | S | Bromofluorobenzene | 0.490 | 0.514 | -4.9 | 98 | 0.00 |
| 88 | C | Bromobenzene | 0.757 | 0.828 | -9.4 | 96 | 0.00 |
| 89 | C | 1,2,3-Trichloropropane | 0.168 | 0.170# | -1.2 | 94 | 0.00 |
| 90 | C | trans-1,4-Dichloro-2-butene | 0.140 | 0.161# | -15.0 | 97 | 0.00 |
| 91 | C | n-Propylbenzene | 1.314 | 1.610 | -22.5# | 98 | 0.00 |
| 92 | C | 2-Chlorotoluene | 0.832 | 0.951 | -14.3 | 96 | 0.00 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 93 | C | 4-Chlorotoluene | 0.952 | 1.092 | -14.7 | 97 | 0.00 |
| 94 | C | 1,3,5-Trimethylbenzene | 0.882 | 1.055 | -19.6 | 98 | 0.00 |
| 95 | C | tert-Butylbenzene | 0.506 | 0.585 | -15.6 | 96 | 0.00 |
| 96 | C | 1,2,4-Trimethylbenzene | 0.915 | 1.093 | -19.5 | 97 | 0.00 |
| 97 | C | sec-Butylbenzene | 1.020 | 1.193 | -17.0 | 96 | 0.00 |
| 98 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 99 | CP | 1,1,2,2-Tetrachloroethane | 1.132 | 1.128 | 0.4 | 96 | 0.00 |
| 100 | CP | 1,3-Dichlorobenzene | 1.179 | 1.254 | -6.4 | 96 | 0.00 |
| 101 | C | p-Isopropyltoluene | 1.780 | 2.103 | -18.1 | 97 | 0.00 |
| 102 | CP | 1,4-Dichlorobenzene | 1.238 | 1.262 | -1.9 | 96 | 0.00 |
| 103 | C | 1,2,3-Trimethylbenzene | 1.940 | 2.262 | -16.6 | 97 | 0.00 |
| 104 | C | Benzyl chloride | 0.821 | 1.169 | -42.4# | 113 | 0.00 |
| 105 | CP | 1,2-Dichlorobenzene | 1.157 | 1.222 | -5.6 | 96 | 0.00 |
| 106 | T | n-Butylbenzene | 1.558 | 1.826 | -17.2 | 99 | 0.00 |
| 107 | C | Hexachloroethane | 0.283 | 0.331 | -17.0 | 99 | 0.00 |
| 108 | CP | 1,2-Dibromo-3-chloropropane | 0.231 | 0.258 | -11.7 | 97 | 0.00 |
| 109 | C | 1,3,5-Trichlorobenzene | 0.694 | 0.759 | -9.4 | 99 | 0.00 |
| 110 | CP | 1,2,4-Trichlorobenzene | 0.642 | 0.711 | -10.7 | 98 | 0.00 |
| 111 | C | Hexachlorobutadiene | 0.247 | 0.272 | -10.1 | 103 | 0.00 |
| 112 | C | Naphthalene | 2.261 | 2.664 | -17.8 | 95 | 0.00 |
| 113 | C | 1,2,3-Trichlorobenzene | 0.657 | 0.735 | -11.9 | 97 | 0.00 |
| 114 | C | 2-Methylnaphthalene | 0.890 | 1.079 | -21.2# | 90 | 0.00 |
| 115 | C | 1-Methylnaphthalene | 0.917 | 1.130 | -23.2# | 87 | 0.00 |
| 116 | I | Ethyl-d5-Acetate-d3 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 117 | T | 2-Propanone | 1.081 | 0.766 | 29.1# | 90 | 0.00 |
| 118 | T | Acetic Ether | 1.690 | 2.103 | -24.4# | 100 | 0.00 |
| 119 | T | Isopropyl Acetate | 0.413 | 0.518 | -25.4# | 98 | 0.00 |
| 120 | T | Amyl Acetate | 1.358 | 1.715 | -26.3# | 99 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 17

# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Pentafluorobenzene | 4.986 | 168 | 167821 | 20.00 ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.270 | 114 | 266790 | 20.00 ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 249389 | 20.00 ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 120712 | 20.00 ug/L | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.126 | 46 | 77853 | 20.00 ug/L | 0.00 |
| System Monitoring Compounds | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 93078 | 19.76 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 98.80% | | |
| 47) 1,2-Dichloroethane-d4 | 5.452 | 65 | 111911 | 19.40 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 97.00% | | |
| 66) Toluene-d8 | 7.801 | 98 | 354338 | 20.74 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 103.70% | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 128300 | 20.99 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 104.95% | | |
| Target Compounds | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 208871 | 42.11 ug/L | 99 |
| 3) Chloromethane | 1.379 | 50 | 246817 | 34.78 ug/L | 99 |
| 4) Vinyl chloride | 1.457 | 62 | 188397 | 40.28 ug/L | 99 |
| 5) Bromomethane | 1.677 | 96 | 80137 | 66.66 ug/L | 99 |
| 6) Chloroethane | 1.761 | 64 | 107773 | 40.56 ug/L | 99 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 216014 | 41.03 ug/L | 99 |
| 8) Ethanol | 2.076 | 45 | 299337 | 919.49 ug/L | 100 |
| 9) Ethyl ether | 2.160 | 59 | 135566 | 42.09 ug/L | 99 |
| 10) Acrolein | 2.275 | 56 | 166057 | 178.81 ug/L | 100 |
| 11) 1,1-Dichloroethene | 2.349 | 61 | 212859 | 39.68 ug/L | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.354 | 151 | 94405 | 37.63 ug/L | 98 |
| 13) Methyl iodide | 2.480 | 142 | 49502 | 58.80 ug/L | 95 |
| 14) Acetone | 2.391 | 43 | 119211 | 39.69 ug/L | 100 |
| 15) 2-Propanol | 2.506 | 45 | 514160 | 642.04 ug/L | 98 |
| 16) Chloroprene | 3.586 | 53 | 227909 | 41.12 ug/L | 99 |
| 17) Carbon disulfide | 2.543 | 76 | 395775 | 42.07 ug/L | 99 |
| 18) Allyl chloride | 2.663 | 41 | 257590 | 42.66 ug/L | 99 |
| 19) Methyl acetate | 2.653 | 43 | 272542 | 42.72 ug/L | 99 |
| 20) Acetonitrile | 2.663 | 41 | 257590 | 42.66 ug/L | 100 |
| 21) Methylene chloride | 2.784 | 49 | 212403 | 40.70 ug/L | 99 |
| 22) trans-1,2-Dichloroethene | 3.041 | 61 | 229855 | 43.32 ug/L | 99 |
| 23) t-Butanol | 2.883 | 59 | 254193 | 209.26 ug/L | 96 |
| 24) Acrylonitrile | 3.014 | 53 | 137826 | 43.64 ug/L | 98 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 488239 | 45.42 ug/L | 99 |
| 26) Hexane | 3.319 | 57 | 168873 | 50.43 ug/L | 99 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 301803 | 41.46 ug/L | 99 |
| 28) Diisopropyl ether | 3.539 | 45 | 498951 | 45.08 ug/L | 87 |
| 29) Vinyl acetate | 3.513 | 86 | 42737 | 52.74 ug/L # | 79 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 434236 | 43.80 ug/L | 99 |
| 31) 2,2-Dichloropropane | 4.199 | 77 | 198795 | 44.73 ug/L | 100 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 254660 | 42.21 ug/L | 99 |
| 33) 2-Butanone | 4.199 | 43 | 162741 | 40.48 ug/L | 98 |
| 34) Ethyl Acetate | 4.257 | 43 | 326562 | 41.02 ug/L | 99 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Methyl acrylate | 4.315 | 55 | 262227 | 38.89 ug/L | 100 |
| 36) Propionitrile | 4.986 | 54 | 31608 | 45.99 ug/L | 92 |
| 37) Bromochloromethane | 4.519 | 49 | 134978 | 40.19 ug/L | 98 |
| 38) Tetrahydrofuran | 4.540 | 42 | 120049 | 39.83 ug/L | 99 |
| 39) Methacrylonitrile | 4.493 | 41 | 161958 | 37.82 ug/L | 98 |
| 40) Chloroform | 4.676 | 83 | 292802 | 41.72 ug/L | 100 |
| 41) Cyclohexane | 4.991 | 56 | 236477 | 40.66 ug/L | 100 |
| 43) 1,1,1-Trichloroethane | 4.897 | 97 | 219206 | 43.36 ug/L | 99 |
| 45) Carbon tetrachloride | 5.127 | 117 | 183968 | 45.07 ug/L | 99 |
| 46) 1,1-Dichloropropene | 5.148 | 75 | 210215 | 43.34 ug/L | 99 |
| 48) 1,2-Dichloroethane | 5.589 | 62 | 235381 | 40.09 ug/L | 100 |
| 49) Benzene | 5.468 | 78 | 700097 | 44.33 ug/L | 100 |
| 50) Tertiaryamylmethylether | 5.741 | 73 | 415600 | 45.80 ug/L | 98 |
| 51) Isobutyl Alcohol | 5.741 | 43 | 125614 | 41.54 ug/L | 99 |
| 52) Heptane | 6.050 | 43 | 133832 | 53.62 ug/L | 98 |
| 53) 1,4-Dioxane | 6.983 | 88 | 492216 | 3844.47 ug/L | 100 |
| 54) Methylcyclohexane | 6.831 | 83 | 218575 | 41.45 ug/L | 100 |
| 55) n-Butanol | 6.569 | 56 | 101892 | 415.60 ug/L | 99 |
| 56) Trichloroethene | 6.574 | 130 | 161797 | 41.75 ug/L | 99 |
| 57) 1,2-Dichloropropane | 6.884 | 63 | 170703 | 42.07 ug/L | 98 |
| 58) Dibromomethane | 6.978 | 93 | 116490 | 42.76 ug/L | 99 |
| 59) Methyl methacrylate | 6.999 | 41 | 199209 | 40.25 ug/L | 99 |
| 60) Bromodichloromethane | 7.183 | 83 | 207427 | 43.41 ug/L | 99 |
| 61) 2-Chloroethyl vinyl ether | 7.476 | 43 | 38974 | 31.05 ug/L # | 72 |
| 62) 2-Nitropropane | 7.403 | 43 | 65683 | 40.26 ug/L | 96 |
| 63) cis-1,3-Dichloropropene | 7.592 | 75 | 244537 | 39.84 ug/L | 99 |
| 65) 4-Methyl-2-pentanone | 7.728 | 43 | 273968 | 42.47 ug/L | 100 |
| 67) Toluene | 7.854 | 91 | 689890 | 42.59 ug/L | 100 |
| 68) trans-1,3-Dichloropropene | 8.063 | 75 | 218361 | 41.56 ug/L | 100 |
| 69) Chloropicrin | 8.063 | 117 | 192981 | No Calib | |
| 70) Ethyl methacrylate | 8.116 | 69 | 234308 | 40.90 ug/L | 98 |
| 71) 1,1,2-Trichloroethane | 8.205 | 97 | 171981 | 42.80 ug/L | 99 |
| 72) Tetrachloroethene | 8.242 | 166 | 168165 | 43.81 ug/L | 99 |
| 73) 1,3-Dichloropropane | 8.315 | 76 | 288908 | 41.85 ug/L | 99 |
| 74) 2-Hexanone | 8.368 | 43 | 206431 | 41.74 ug/L | 100 |
| 75) Chlorodibromomethane | 8.462 | 129 | 166534 | 41.80 ug/L | 99 |
| 76) Butyl acetate | 8.451 | 43 | 343555 | 42.99 ug/L | 100 |
| 77) 1,2-Dibromoethane | 8.535 | 107 | 138619 | 38.57 ug/L | 97 |
| 78) Chlorobenzene | 8.860 | 112 | 425178 | 42.57 ug/L | 99 |
| 79) 1,1,1,2-Tetrachloroethane | 8.918 | 131 | 140325 | 42.80 ug/L | 99 |
| 80) Ethylbenzene | 8.923 | 91 | 707784 | 41.21 ug/L | 99 |
| 81) m/p-Xylene | 9.002 | 91 | 1125731 | 84.10 ug/L | 100 |
| 82) Styrene | 9.243 | 104 | 441366 | 45.24 ug/L | 100 |
| 83) o-Xylene | 9.233 | 91 | 545463 | 40.99 ug/L | 99 |
| 84) Cyclohexanone | 9.500 | 55 | 72966 | 208.98 ug/L | 99 |
| 85) Bromoform | 9.353 | 173 | 107109 | 42.38 ug/L | 98 |
| 86) Isopropylbenzene | 9.437 | 105 | 648987 | 41.49 ug/L | 100 |
| 88) Bromobenzene | 9.621 | 77 | 413229 | 43.80 ug/L | 100 |
| 89) 1,2,3-Trichloropropane | 9.647 | 110 | 84833 | 40.60 ug/L | 99 |
| 90) trans-1,4-Dichloro-2-b... | 9.636 | 53 | 80523 | 46.13 ug/L | 99 |
| 91) n-Propylbenzene | 9.668 | 91 | 803103 | 41.30 ug/L | 100 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

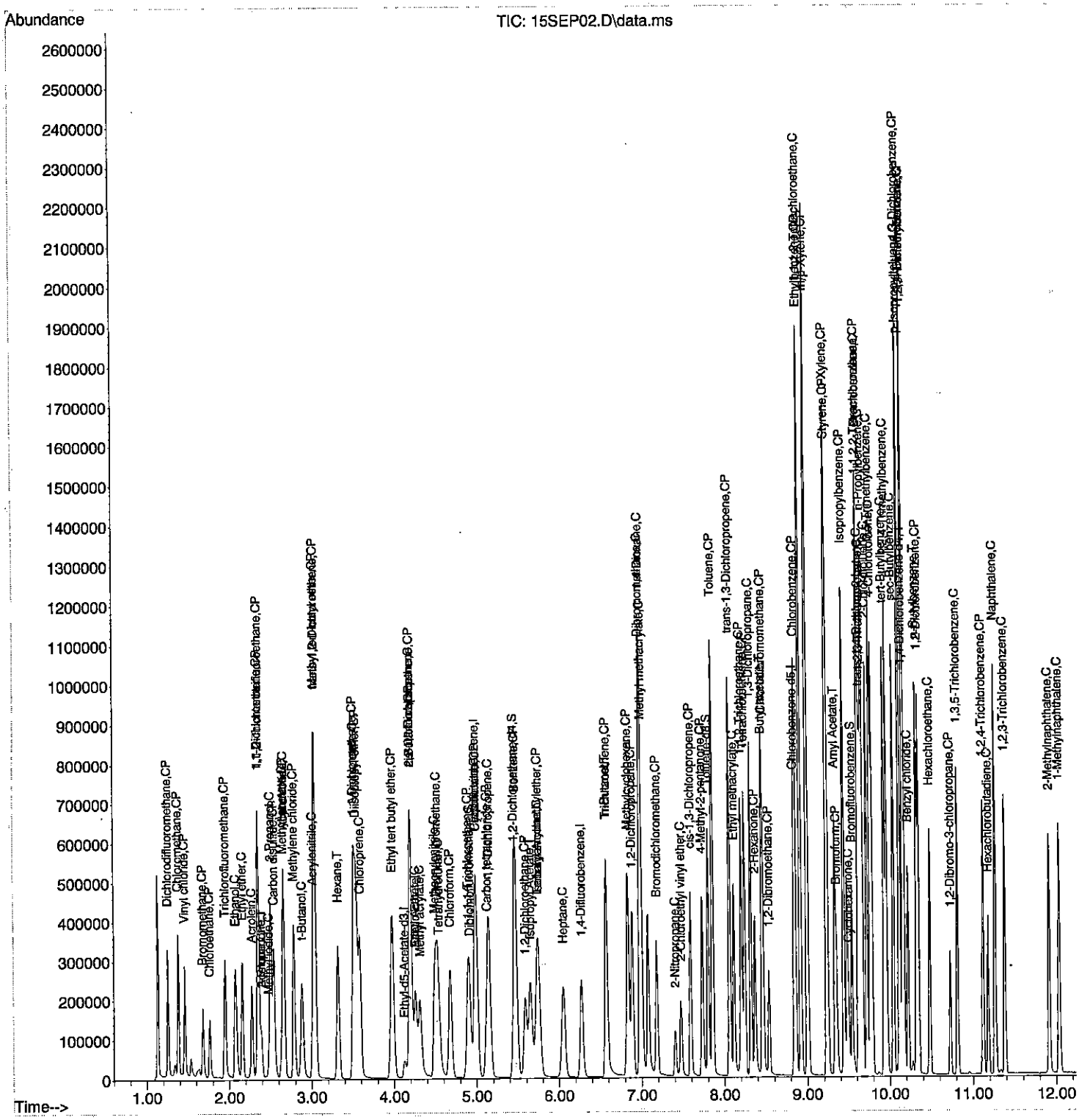
Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) | 2-Chlorotoluene | 9.720 | 91 | 474199 | 45.69 ug/L | 99 |
| 93) | 4-Chlorotoluene | 9.783 | 91 | 544444 | 41.31 ug/L | 99 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 526151 | 42.19 ug/L | 99 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 292027 | 39.45 ug/L | 99 |
| 96) | 1,2,4-Trimethylbenzene | 9.956 | 105 | 545166 | 41.76 ug/L | 100 |
| 97) | sec-Butylbenzene | 10.040 | 105 | 595266 | 41.56 ug/L | 100 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.615 | 83 | 272254 | 39.84 ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 10.114 | 146 | 302627 | 42.51 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 507790 | 41.81 ug/L | 100 |
| 102) | 1,4-Dichlorobenzene | 10.166 | 146 | 304790 | 40.80 ug/L | 99 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 545995 | 40.53 ug/L | 100 |
| 104) | Benzyl chloride | 10.218 | 91 | 282196 | 47.77 ug/L | 99 |
| 105) | 1,2-Dichlorobenzene | 10.344 | 146 | 295001 | 42.24 ug/L | 100 |
| 106) | n-Butylbenzene | 10.318 | 91 | 440900 | 42.35 ug/L | 99 |
| 107) | Hexachloroethane | 10.481 | 117 | 79902 | 42.16 ug/L | 98 |
| 108) | 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 62259 | 41.17 ug/L | 99 |
| 109) | 1,3,5-Trichlorobenzene | 10.811 | 180 | 183125 | 43.70 ug/L | 100 |
| 110) | 1,2,4-Trichlorobenzene | 11.120 | 180 | 171709 | 41.66 ug/L | 100 |
| 111) | Hexachlorobutadiene | 11.183 | 225 | 65661 | 44.07 ug/L | 98 |
| 112) | Naphthalene | 11.267 | 128 | 643255 | 43.45 ug/L | 100 |
| 113) | 1,2,3-Trichlorobenzene | 11.382 | 180 | 177340 | 41.33 ug/L | 99 |
| 114) | 2-Methylnaphthalene | 11.917 | 142 | 260454 | 42.03 ug/L | 99 |
| 115) | 1-Methylnaphthalene | 12.038 | 142 | 272827 | 41.84 ug/L | 98 |
| 117) | 2-Propanone | 2.391 | 43 | 119211 | 39.11 ug/L | 100 |
| 118) | Acetic Ether | 4.257 | 43 | 327489 | 49.77 ug/L | 99 |
| 119) | Isopropyl Acetate | 5.652 | 61 | 80673 | 40.70 ug/L | 96 |
| 120) | Amyl Acetate | 9.332 | 43 | 267020 | 41.42 ug/L | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP02.D
Acq On : 15 Sep 2018 11:36 am
Operator : LNS
Sample : VCCV1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

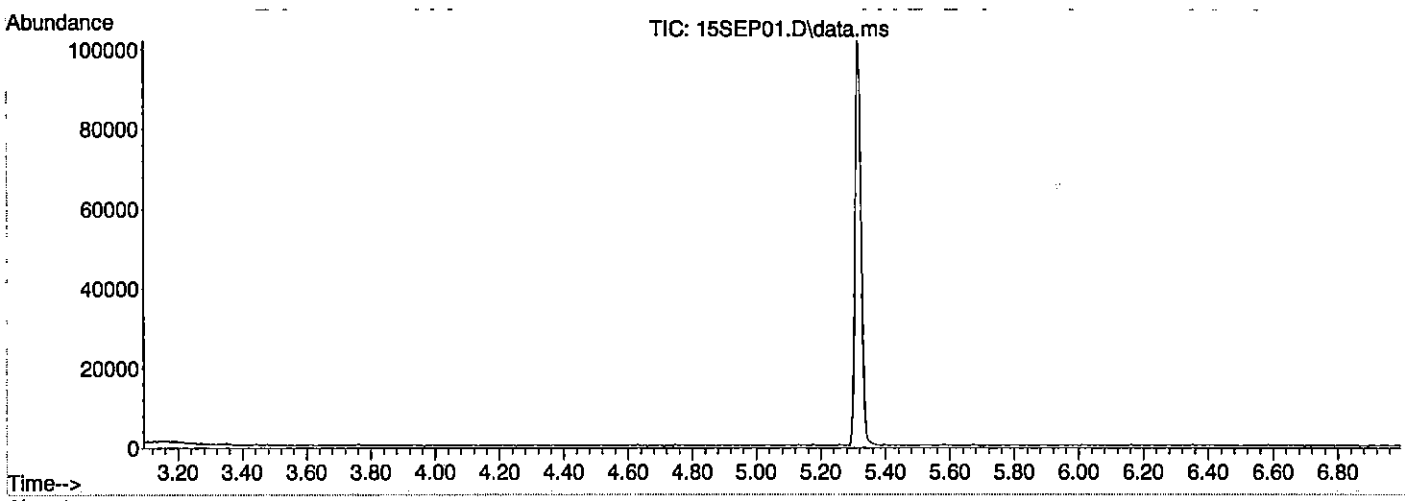
Quant Time: Sep 15 12:00:54 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

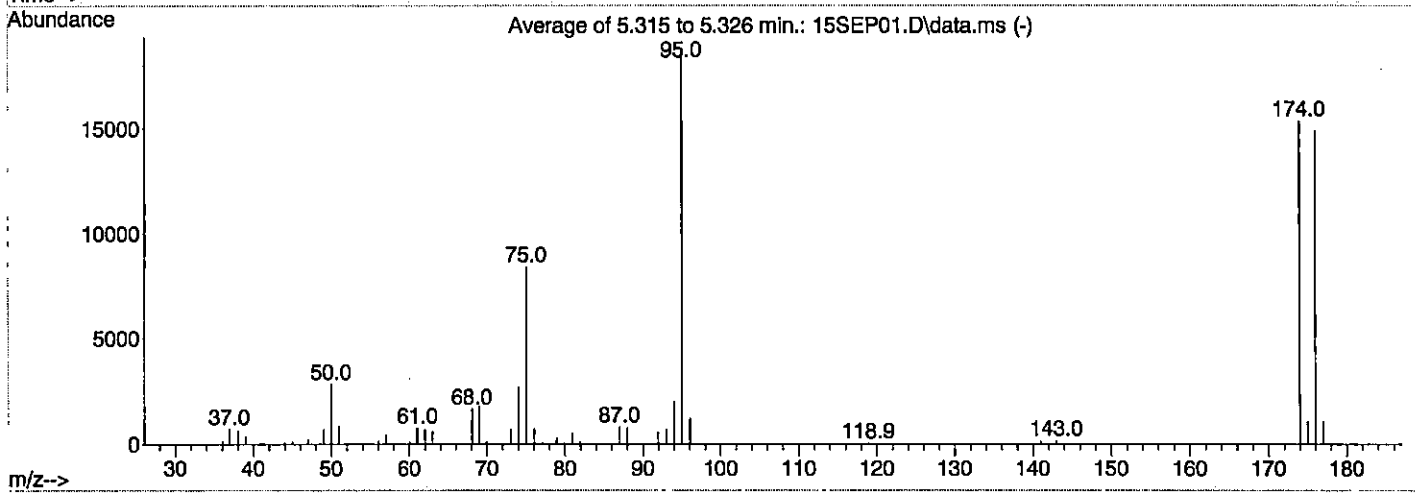


Data Path : E:\VMS10\10V180915\
Data File : 15SEP01.D
Acq On : 15 Sep 2018 11:13 am
Operator : LNS
Sample : VBFB1-180915
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: 8260.P

Method : E:\Methods\VOA\10WG0913.M
Title : 8260 Global Optimization Method
Last Update : Fri Sep 28 15:40:37 2018




Spectrum Information: Average of 5.315 to 5.326 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.5 | 2845 | PASS |
| 75 | 95 | 30 | 60 | 45.8 | 8433 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 18407 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 1235 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 83.5 | 15372 | PASS |
| 175 | 174 | 5 | 9 | 7.1 | 1086 | PASS |
| 176 | 174 | 95 | 101 | 97.2 | 14935 | PASS |
| 177 | 176 | 5 | 9 | 7.2 | 1077 | PASS |

# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP05.D
Acq On : 15 Sep 2018 12:48 pm
Operator : LNS
Sample : VBLKW1-180915
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 15 15:06:10 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 151721 | 20.00 ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 245305 | 20.00 ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 233693 | 20.00 ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 99640 | 20.00 ug/L | # 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 67238 | 20.00 ug/L | # 0.00 |
| System Monitoring Compounds | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 88240 | 20.37 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 101.85% | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 112560 | 21.22 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 106.10% | | |
| 66) Toluene-d8 | 7.801 | 98 | 301540 | 18.84 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 94.20% | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 103309 | 18.04 ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 90.20% | | |
| Target Compounds | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 0.000 | | 0 | N.D. | |
| 3) Chloromethane | 1.379 | 50 | 1109 | 0.17 ug/L | 92 |
| 4) Vinyl chloride | 0.000 | | 0 | N.D. | |
| 5) Bromomethane | 1.693 | 96 | 424 | N.D. | |
| 6) Chloroethane | 1.735 | 64 | 187 | Below Cal # | 45 |
| 7) Trichlorofluoromethane | 0.000 | | 0 | N.D. | |
| 8) Ethanol | 2.065 | 45 | 1348 | Below Cal # | 46 |
| 9) Ethyl ether | 0.000 | | 0 | N.D. | |
| 10) Acrolein | 0.000 | | 0 | N.D. | |
| 11) 1,1-Dichloroethene | 0.000 | | 0 | N.D. | |
| 12) 1,1,2-Trichlorotrifluo... | 0.000 | | 0 | N.D. | |
| 13) Methyl iodide | 0.000 | | 0 | N.D. | |
| 14) Acetone | 2.391 | 43 | 1182 | Below Cal # | 41 |
| 15) 2-Propanol | 0.000 | | 0 | N.D. d | |
| 16) Chloroprene | 0.000 | | 0 | N.D. | |
| 17) Carbon disulfide | 0.000 | | 0 | N.D. d | |
| 18) Allyl chloride | 2.637 | 41 | 102 | N.D. | |
| 19) Methyl acetate | 2.658 | 43 | 502 | Below Cal # | 59 |
| 20) Acetonitrile | 2.637 | 41 | 102 | N.D. | |
| 21) Methylene chloride | 2.784 | 49 | 522 | Below Cal # | 73 |
| 22) trans-1,2-Dichloroethene | 3.051 | 61 | 120 | N.D. | |
| 23) t-Butanol | 0.000 | | 0 | N.D. d | |
| 24) Acrylonitrile | 0.000 | | 0 | N.D. | |
| 25) Methyl tert-butyl ether | 0.000 | | 0 | N.D. | |
| 26) Hexane | 0.000 | | 0 | N.D. | |
| 27) 1,1-Dichloroethane | 0.000 | | 0 | N.D. | |
| 28) Diisopropyl ether | 0.000 | | 0 | N.D. | |
| 29) Vinyl acetate | 0.000 | | 0 | N.D. | |
| 30) Ethyl tert butyl ether | 0.000 | | 0 | N.D. | |
| 31) 2,2-Dichloropropane | 0.000 | | 0 | N.D. d | |
| 32) cis-1,2-Dichloroethene | 0.000 | | 0 | N.D. | |
| 33) 2-Butanone | 0.000 | | 0 | N.D. d | |
| 34) Ethyl Acetate | 4.252 | 43 | 322 | N.D. | |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP05.D
Acq On : 15 Sep 2018 12:48 pm
Operator : LNS
Sample : VBLKW1-180915
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 15 15:06:10 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Methyl acrylate | 0.000 | | 0 | N.D. | |
| 36) Propionitrile | 0.000 | | 0 | N.D. | |
| 37) Bromochloromethane | 0.000 | | 0 | N.D. | |
| 38) Tetrahydrofuran | 0.000 | | 0 | N.D. | |
| 39) Methacrylonitrile | 0.000 | | 0 | N.D. | |
| 40) Chloroform | 0.000 | | 0 | N.D. | |
| 41) Cyclohexane | 0.000 | | 0 | N.D. d | |
| 43) 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | |
| 45) Carbon tetrachloride | 0.000 | | 0 | N.D. | |
| 46) 1,1-Dichloropropene | 0.000 | | 0 | N.D. | |
| 48) 1,2-Dichloroethane | 5.599 | 62 | 224 | N.D. | |
| 49) Benzene | 5.473 | 78 | 7973 | 0.55 ug/L | 93 |
| 50) Tertiaryamylmethylether | 0.000 | | 0 | N.D. | |
| 51) Isobutyl Alcohol | 0.000 | | 0 | N.D. | |
| 52) Heptane | 0.000 | | 0 | N.D. | |
| 53) 1,4-Dioxane | 0.000 | | 0 | N.D. | |
| 54) Methylcyclohexane | 0.000 | | 0 | N.D. | |
| 55) n-Butanol | 0.000 | | 0 | N.D. | |
| 56) Trichloroethene | 0.000 | | 0 | N.D. | |
| 57) 1,2-Dichloropropane | 0.000 | | 0 | N.D. | |
| 58) Dibromomethane | 0.000 | | 0 | N.D. | |
| 59) Methyl methacrylate | 0.000 | | 0 | N.D. | |
| 60) Bromodichloromethane | 0.000 | | 0 | N.D. | |
| 61) 2-Chloroethyl vinyl ether | 0.000 | | 0 | N.D. | |
| 62) 2-Nitropropane | 0.000 | | 0 | N.D. | |
| 63) cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | |
| 65) 4-Methyl-2-pentanone | 0.000 | | 0 | N.D. d | |
| 67) Toluene | 7.864 | 91 | 382 | N.D. | |
| 68) trans-1,3-Dichloropropene | 0.000 | | 0 | N.D. | |
| 69) Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) Ethyl methacrylate | 0.000 | | 0 | N.D. | |
| 71) 1,1,2-Trichloroethane | 0.000 | | 0 | N.D. | |
| 72) Tetrachloroethene | 0.000 | | 0 | N.D. | |
| 73) 1,3-Dichloropropane | 0.000 | | 0 | N.D. | |
| 74) 2-Hexanone | 0.000 | | 0 | N.D. | |
| 75) Chlorodibromomethane | 0.000 | | 0 | N.D. | |
| 76) Butyl acetate | 0.000 | | 0 | N.D. | |
| 77) 1,2-Dibromoethane | 0.000 | | 0 | N.D. | |
| 78) Chlorobenzene | 8.860 | 112 | 189 | N.D. | |
| 79) 1,1,1,2-Tetrachloroethane | 0.000 | | 0 | N.D. | |
| 80) Ethylbenzene | 0.000 | | 0 | N.D. d | |
| 81) m/p-Xylene | 9.007 | 91 | 774 | 0.59 ug/L | 76 |
| 82) Styrene | 0.000 | | 0 | N.D. d | |
| 83) o-Xylene | 0.000 | | 0 | N.D. d | |
| 84) Cyclohexanone | 0.000 | | 0 | N.D. d | |
| 85) Bromoform | 0.000 | | 0 | N.D. | |
| 86) Isopropylbenzene | 0.000 | | 0 | N.D. d | |
| 88) Bromobenzene | 9.621 | 77 | 179 | N.D. | |
| 89) 1,2,3-Trichloropropane | 0.000 | | 0 | N.D. | |
| 90) trans-1,4-Dichloro-2-b... | 0.000 | | 0 | N.D. | |
| 91) n-Propylbenzene | 0.000 | | 0 | N.D. d | |

Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP05.D
Acq On : 15 Sep 2018 12:48 pm
Operator : LNS
Sample : VBLKW1-180915
Misc :
ALS Vial : 4 Sample Multiplier: 1

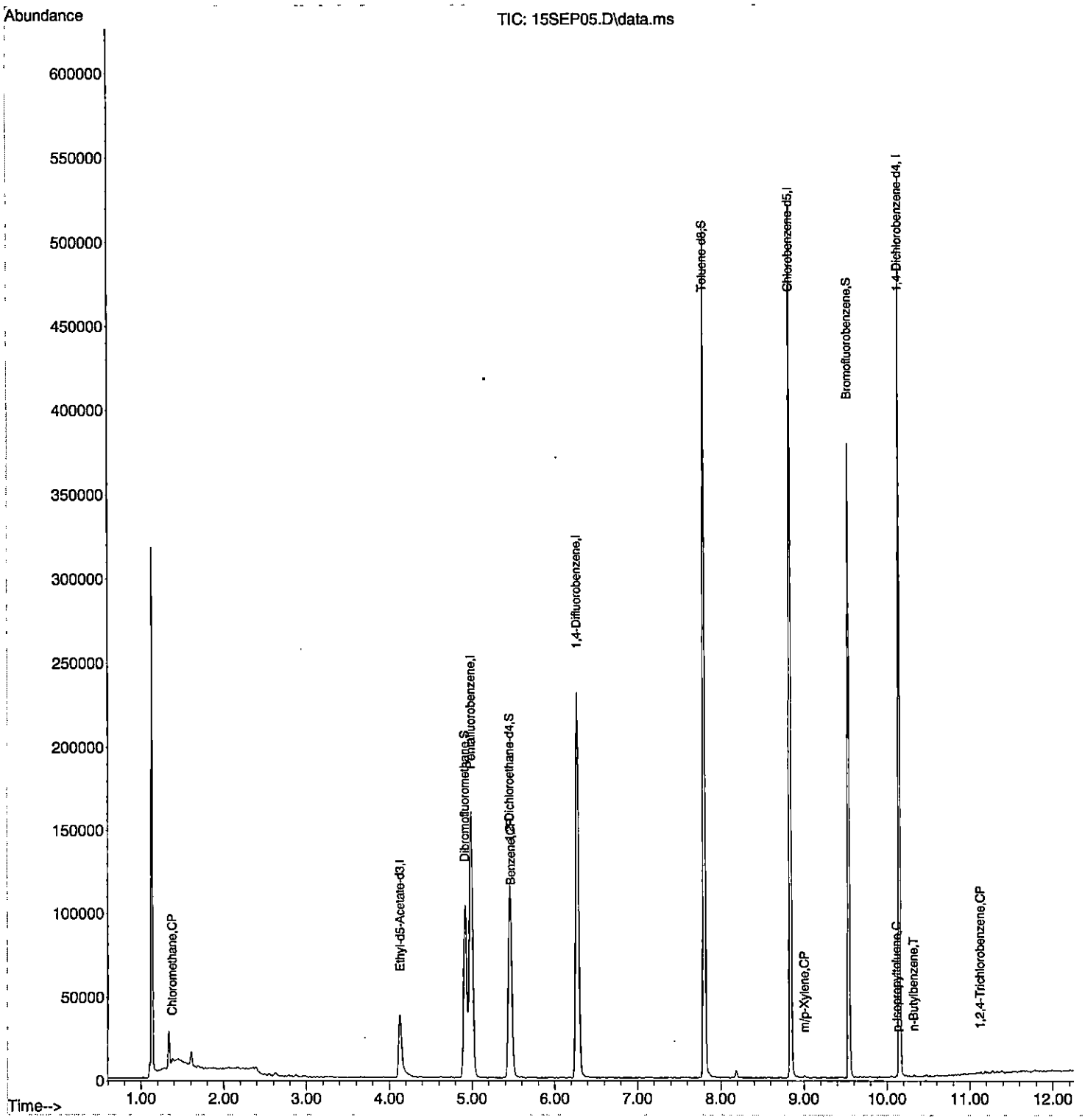
Quant Time: Sep 15 15:06:10 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 92) 2-Chlorotoluene | 9.720 | 91 | 220 | N.D. | |
| 93) 4-Chlorotoluene | 0.000 | | 0 | N.D. d | |
| 94) 1,3,5-Trimethylbenzene | 0.000 | | 0 | N.D. d | |
| 95) tert-Butylbenzene | 0.000 | | 0 | N.D. | |
| 96) 1,2,4-Trimethylbenzene | 0.000 | | 0 | N.D. d | |
| 97) sec-Butylbenzene | 0.000 | | 0 | N.D. d | |
| 99) 1,1,2,2-Tetrachloroethane | 0.000 | | 0 | N.D. | |
| 100) 1,3-Dichlorobenzene | 10.114 | 146 | 323 | N.D. | |
| 101) p-Isopropyltoluene | 10.119 | 119 | 487 | 0.36 ug/L # | 64 |
| 102) 1,4-Dichlorobenzene | 10.166 | 146 | 424 | N.D. | |
| 103) 1,2,3-Trimethylbenzene | 0.000 | | 0 | N.D. d | |
| 104) Benzyl chloride | 0.000 | | 0 | N.D. d | |
| 105) 1,2-Dichlorobenzene | 10.349 | 146 | 183 | N.D. | |
| 106) n-Butylbenzene | 10.323 | 91 | 640 | 0.33 ug/L | 86 |
| 107) Hexachloroethane | 0.000 | | 0 | N.D. | |
| 108) 1,2-Dibromo-3-chloropr... | 0.000 | | 0 | N.D. | |
| 109) 1,3,5-Trichlorobenzene | 10.811 | 180 | 53 | N.D. | |
| 110) 1,2,4-Trichlorobenzene | 11.125 | 180 | 309 | 0.22 ug/L | 95 |
| 111) Hexachlorobutadiene | 0.000 | | 0 | N.D. d | |
| 112) Naphthalene | 11.272 | 128 | 862 | N.D. | |
| 113) 1,2,3-Trichlorobenzene | 0.000 | | 0 | N.D. d | |
| 114) 2-Methylnaphthalene | 0.000 | | 0 | N.D. | |
| 115) 1-Methylnaphthalene | 0.000 | | 0 | N.D. | |
| 117) 2-Propanone | 2.391 | 43 | 1182 | Below Cal # | 41 |
| 118) Acetic Ether | 4.252 | 43 | 322 | N.D. | |
| 119) Isopropyl Acetate | 0.000 | | 0 | N.D. | |
| 120) Amyl Acetate | 0.000 | | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP05.D
Acq On : 15 Sep 2018 12:48 pm
Operator : LNS
Sample : VBLKW1-180915
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 15 15:06:10 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP03.D
Acq On : 15 Sep 2018 12:16 pm
Operator : LNS
Sample : VLCSW1-180915
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 13:03:31 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.986 | 168 | 172102 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.276 | 114 | 273223 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 261428 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 127814 | 20.00 | ug/L | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.126 | 46 | 79497 | 20.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 100100 | 20.75 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 103.75% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 119858 | 20.29 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 101.45% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 366112 | 20.45 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 102.25% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 130273 | 20.33 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 101.65% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 92409 | 18.17 | ug/L | 99 |
| 3) Chloromethane | 1.379 | 50 | 101302 | 13.92 | ug/L | 99 |
| 4) Vinyl chloride | 1.457 | 62 | 96053 | 20.03 | ug/L | 99 |
| 5) Bromomethane | 1.688 | 96 | 45320 | 36.60 | ug/L | 96 |
| 6) Chloroethane | 1.767 | 64 | 58856 | 21.35 | ug/L | 97 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 114396 | 21.19 | ug/L | 99 |
| 8) Ethanol | 2.071 | 45 | 134603 | 399.27 | ug/L | 99 |
| 9) Ethyl ether | 2.160 | 59 | 74888 | 22.68 | ug/L | 99 |
| 10) Acrolein | 2.280 | 56 | 1162 | Below Cal | # | 1 |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 117590 | 21.38 | ug/L | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 0.000 | | 0 | N.D. | | |
| 13) Methyl iodide | 2.480 | 142 | 47411 | 55.61 | ug/L | 97 |
| 14) Acetone | 2.390 | 43 | 66055 | 21.11 | ug/L | 100 |
| 15) 2-Propanol | 2.501 | 45 | 405375 | 493.61 | ug/L | 99 |
| 16) Chloroprene | 3.586 | 53 | 1686 | 0.53 | ug/L # | 1 |
| 17) Carbon disulfide | 2.543 | 76 | 209216 | 21.69 | ug/L | 99 |
| 18) Allyl chloride | 2.663 | 41 | 113133 | 18.27 | ug/L # | 84 |
| 19) Methyl acetate | 2.658 | 43 | 2832 | 0.32 | ug/L # | 1 |
| 20) Acetonitrile | 2.663 | 41 | 113133 | 18.27 | ug/L | 90 |
| 21) Methylene chloride | 2.784 | 49 | 113658 | 20.84 | ug/L | 99 |
| 22) trans-1,2-Dichloroethene | 3.041 | 61 | 124310 | 22.84 | ug/L | 100 |
| 23) t-Butanol | 2.878 | 59 | 138751 | 111.38 | ug/L | 94 |
| 24) Acrylonitrile | 3.014 | 53 | 75327 | 23.26 | ug/L | 99 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 250545 | 22.73 | ug/L | 99 |
| 26) Hexane | 3.324 | 57 | 655 | 0.19 | ug/L # | 19 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 159527 | 21.37 | ug/L | 99 |
| 28) Diisopropyl ether | 3.544 | 45 | 229146 | 20.19 | ug/L # | 58 |
| 29) Vinyl acetate | 3.512 | 86 | 434 | 1.60 | ug/L # | 1 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 211325 | 20.79 | ug/L | 99 |
| 31) 2,2-Dichloropropane | 4.199 | 77 | 104099 | 22.84 | ug/L | 99 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 140371 | 22.69 | ug/L | 100 |
| 33) 2-Butanone | 4.205 | 43 | 77414 | 19.33 | ug/L | 95 |
| 34) Ethyl Acetate | 4.262 | 43 | 150949 | 18.49 | ug/L | 99 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP03.D
Acq On : 15 Sep 2018 12:16 pm
Operator : LNS
Sample : VLCSW1-180915
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 13:03:31 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Methyl acrylate | 4.315 | 55 | 134948 | 19.70 ug/L | 99 |
| 36) Propionitrile | 0.000 | | 0 | N.D. | |
| 37) Bromochloromethane | 4.519 | 49 | 75918 | 22.04 ug/L | 98 |
| 38) Tetrahydrofuran | 4.545 | 42 | 59758 | 19.46 ug/L | 100 |
| 39) Methacrylonitrile | 4.493 | 41 | 85166 | 19.34 ug/L | 99 |
| 40) Chloroform | 4.682 | 83 | 153488 | 21.33 ug/L | 100 |
| 41) Cyclohexane | 4.986 | 56 | 4294 | 0.31 ug/L # | 27 |
| 43) 1,1,1-Trichloroethane | 4.902 | 97 | 118452 | 22.88 ug/L | 99 |
| 45) Carbon tetrachloride | 5.127 | 117 | 91804 | 21.96 ug/L | 97 |
| 46) 1,1-Dichloropropene | 5.154 | 75 | 108494 | 21.84 ug/L | 99 |
| 48) 1,2-Dichloroethane | 5.589 | 62 | 122375 | 20.35 ug/L | 98 |
| 49) Benzene | 5.468 | 78 | 367645 | 22.73 ug/L | 99 |
| 50) Tertiaryamylmethylether | 5.741 | 73 | 202832 | 21.82 ug/L | 97 |
| 51) Isobutyl Alcohol | 5.736 | 43 | 60727 | 19.33 ug/L | 96 |
| 52) Heptane | 6.050 | 43 | 358 | 0.14 ug/L # | 38 |
| 53) 1,4-Dioxane | 6.910 | 88 | 4938 | 56.90 ug/L | 85 |
| 54) Methylcyclohexane | 6.837 | 83 | 160 | 0.26 ug/L # | 15 |
| 55) n-Butanol | 0.000 | | 0 | N.D. | |
| 56) Trichloroethene | 6.574 | 130 | 82292 | 20.74 ug/L | 98 |
| 57) 1,2-Dichloropropane | 6.889 | 63 | 89759 | 21.60 ug/L # | 82 |
| 58) Dibromomethane | 6.978 | 93 | 59707 | 21.40 ug/L | 98 |
| 59) Methyl methacrylate | 6.999 | 41 | 86266 | 17.14 ug/L | 95 |
| 60) Bromodichloromethane | 7.183 | 83 | 104369 | 21.33 ug/L | 100 |
| 61) 2-Chloroethyl vinyl ether | 7.529 | 43 | 106 | 0.22 ug/L # | 1 |
| 62) 2-Nitropropane | 7.403 | 43 | 32743 | 19.63 ug/L | 97 |
| 63) cis-1,3-Dichloropropene | 7.592 | 75 | 116797 | 18.70 ug/L | 97 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 208162 | 30.84 ug/L | 80 |
| 67) Toluene | 7.854 | 91 | 354338 | 20.87 ug/L | 100 |
| 68) trans-1,3-Dichloropropene | 8.063 | 75 | 104441 | 20.34 ug/L | 94 |
| 69) Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) Ethyl methacrylate | 8.116 | 69 | 117947 | 20.49 ug/L | 100 |
| 71) 1,1,2-Trichloroethane | 8.205 | 97 | 90652 | 21.52 ug/L | 99 |
| 72) Tetrachloroethene | 8.247 | 166 | 91618 | 22.77 ug/L | 99 |
| 73) 1,3-Dichloropropane | 8.315 | 76 | 150911 | 20.85 ug/L | 98 |
| 74) 2-Hexanone | 8.368 | 43 | 107954 | 20.94 ug/L | 96 |
| 75) Chlorodibromomethane | 8.467 | 129 | 77263 | 19.18 ug/L | 100 |
| 76) Butyl acetate | 8.457 | 43 | 151952 | 18.28 ug/L | 99 |
| 77) 1,2-Dibromoethane | 8.535 | 107 | 91062 | 24.17 ug/L | 98 |
| 78) Chlorobenzene | 8.860 | 112 | 217251 | 20.75 ug/L | 100 |
| 79) 1,1,1,2-Tetrachloroethane | 8.918 | 131 | 73537 | 21.40 ug/L | 99 |
| 80) Ethylbenzene | 8.923 | 91 | 354219 | 20.32 ug/L | 100 |
| 81) m/p-Xylene | 9.002 | 91 | 557530 | 40.91 ug/L | 100 |
| 82) Styrene | 9.243 | 104 | 217662 | 23.10 ug/L | 99 |
| 83) o-Xylene | 9.233 | 91 | 274940 | 20.35 ug/L | 98 |
| 84) Cyclohexanone | 9.505 | 55 | 195 | 1.43 ug/L # | 30 |
| 85) Bromoform | 9.353 | 173 | 49239 | 19.21 ug/L | 99 |
| 86) Isopropylbenzene | 9.442 | 105 | 321956 | 20.25 ug/L | 99 |
| 88) Bromobenzene | 9.621 | 77 | 209626 | 21.20 ug/L | 100 |
| 89) 1,2,3-Trichloropropane | 9.647 | 110 | 45269 | 20.67 ug/L | 99 |
| 90) trans-1,4-Dichloro-2-b... | 9.636 | 53 | 37606 | 20.55 ug/L | 90 |
| 91) n-Propylbenzene | 9.668 | 91 | 391189 | 19.33 ug/L | 100 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP03.D
Acq On : 15 Sep 2018 12:16 pm
Operator : LNS
Sample : VLCSW1-180915
Misc :
ALS Vial : 2 Sample Multiplier: 1

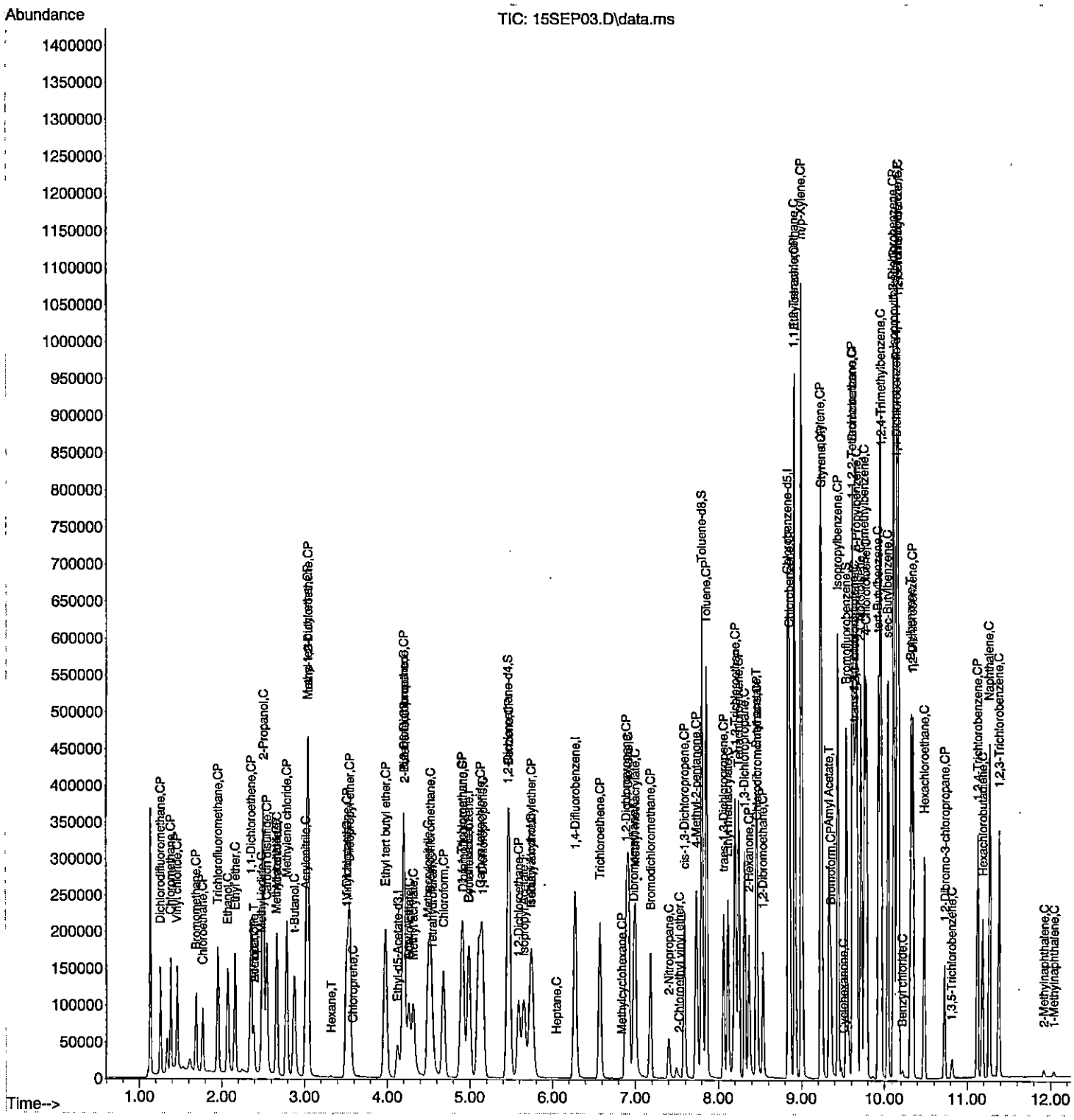
Quant Time: Sep 15 13:03:31 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) | 2-Chlorotoluene | 9.720 | 91 | 237326 | 21.82 ug/L | 99 |
| 93) | 4-Chlorotoluene | 9.783 | 91 | 277408 | 20.16 ug/L | 99 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 264672 | 20.83 ug/L | 99 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 144231 | 18.71 ug/L | 93 |
| 96) | 1,2,4-Trimethylbenzene | 9.961 | 105 | 268723 | 20.12 ug/L | 99 |
| 97) | sec-Butylbenzene | 10.045 | 105 | 297707 | 20.46 ug/L | 100 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.615 | 83 | 149431 | 20.65 ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 10.113 | 146 | 157666 | 20.92 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 246812 | 20.00 ug/L | 99 |
| 102) | 1,4-Dichlorobenzene | 10.166 | 146 | 159392 | 20.15 ug/L | 100 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 284454 | 20.05 ug/L | 100 |
| 104) | Benzyl chloride | 10.218 | 91 | 1613 | 0.48 ug/L | 82 |
| 105) | 1,2-Dichlorobenzene | 10.344 | 146 | 148940 | 20.14 ug/L | 99 |
| 106) | n-Butylbenzene | 10.323 | 91 | 221864 | 21.01 ug/L | 99 |
| 107) | Hexachloroethane | 10.480 | 117 | 38194 | 19.97 ug/L | 96 |
| 108) | 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 30623 | 20.40 ug/L | 100 |
| 109) | 1,3,5-Trichlorobenzene | 10.811 | 180 | 3444 | 0.78 ug/L | 91 |
| 110) | 1,2,4-Trichlorobenzene | 11.125 | 180 | 80942 | 19.62 ug/L | 99 |
| 111) | Hexachlorobutadiene | 11.183 | 225 | 34211 | 21.69 ug/L | 97 |
| 112) | Naphthalene | 11.267 | 128 | 283386 | 21.01 ug/L | 99 |
| 113) | 1,2,3-Trichlorobenzene | 11.382 | 180 | 85124 | 19.71 ug/L | 98 |
| 114) | 2-Methylnaphthalene | 11.922 | 142 | 4214 | 1.08 ug/L | 91 |
| 115) | 1-Methylnaphthalene | 12.043 | 142 | 3488 | 0.87 ug/L | 98 |
| 117) | 2-Propanone | 2.390 | 43 | 66055 | 20.93 ug/L | 100 |
| 118) | Acetic Ether | 4.262 | 43 | 152076 | 22.64 ug/L | 99 |
| 119) | Isopropyl Acetate | 5.652 | 61 | 33729 | 16.99 ug/L | 87 |
| 120) | Amyl Acetate | 9.332 | 43 | 118377 | 18.15 ug/L | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP03.D
Acq On : 15 Sep 2018 12:16 pm
Operator : LNS
Sample : VLCSW1-180915
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 13:03:31 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WG00913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP14.D
Acq On : 15 Sep 2018 05:13 pm
Operator : LNS
Sample : 1809940-01B MS DF100
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 10:38:58 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 158597 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.275 | 114 | 253788 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.845 | 117 | 248679 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 127542 | 20.00 | ug/L | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 75560 | 20.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 44) Dibromofluoromethane | 4.923 | 111 | 92550 | 20.65 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 103.25% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 113766 | 20.73 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 103.65% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 348705 | 20.47 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 102.35% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 127931 | 20.99 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 104.95% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 94041 | 20.06 | ug/L | 99 |
| 3) Chloromethane | 1.378 | 50 | 85002 | 12.67 | ug/L | 98 |
| 4) Vinyl chloride | 1.457 | 62 | 90134 | 20.39 | ug/L | 98 |
| 5) Bromomethane | 1.688 | 96 | 43380 | 38.03 | ug/L | 99 |
| 6) Chloroethane | 1.766 | 64 | 55203 | 21.74 | ug/L | 98 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 107155 | 21.54 | ug/L | 100 |
| 8) Ethanol | 2.071 | 45 | 107696 | 345.74 | ug/L | 99 |
| 9) Ethyl ether | 2.160 | 59 | 66291 | 21.78 | ug/L | 98 |
| 10) Acrolein | 2.238 | 56 | 243 | Below Cal | # | 1 |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 113607 | 22.41 | ug/L | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 0.000 | | 0 | N.D. | | |
| 13) Methyl iodide | 2.479 | 142 | 59450 | 71.21 | ug/L | 99 |
| 14) Acetone | 2.390 | 43 | 185168 | 65.71 | ug/L | 100 |
| 15) 2-Propanol | 2.500 | 45 | 308860 | 408.11 | ug/L | 97 |
| 16) Chloroprene | 0.000 | | 0 | N.D. | | |
| 17) Carbon disulfide | 2.542 | 76 | 215806 | 24.27 | ug/L | 99 |
| 18) Allyl chloride | 2.668 | 41 | 138361 | 24.25 | ug/L | 97 |
| 19) Methyl acetate | 2.658 | 43 | 3269 | 0.43 | ug/L # | 1 |
| 20) Acetonitrile | 2.668 | 41 | 138361 | 24.25 | ug/L # | 97 |
| 21) Methylene chloride | 2.784 | 49 | 105987 | 21.10 | ug/L | 100 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 117147 | 23.36 | ug/L | 99 |
| 23) t-Butanol | 2.883 | 59 | 117356 | 102.23 | ug/L | 98 |
| 24) Acrylonitrile | 3.020 | 53 | 81924 | 27.45 | ug/L | 99 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 223915 | 22.04 | ug/L | 99 |
| 26) Hexane | 3.329 | 57 | 102 | N.D. | | |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 150138 | 21.83 | ug/L | 99 |
| 28) Diisopropyl ether | 3.544 | 45 | 202495 | 19.36 | ug/L # | 59 |
| 29) Vinyl acetate | 3.533 | 86 | 158 | 1.26 | ug/L # | 1 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 192689 | 20.57 | ug/L | 99 |
| 31) 2,2-Dichloropropane | 4.204 | 77 | 92744 | 22.08 | ug/L | 98 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 128881 | 22.60 | ug/L | 100 |
| 33) 2-Butanone | 4.204 | 43 | 117979 | 31.29 | ug/L | 100 |
| 34) Ethyl Acetate | 4.262 | 43 | 144416 | 19.20 | ug/L | 100 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP14.D
Acq On : 15 Sep 2018 05:13 pm
Operator : LNS
Sample : 1809940-01B MS DF100
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 10:38:58 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Methyl acrylate | 4.320 | 55 | 125024 | 19.81 ug/L | 99 |
| 36) Propionitrile | 0.000 | | 0 | N.D. | |
| 37) Bromochloromethane | 4.524 | 49 | 71444 | 22.51 ug/L | 100 |
| 38) Tetrahydrofuran | 4.550 | 42 | 55876 | 19.75 ug/L | 100 |
| 39) Methacrylonitrile | 4.498 | 41 | 77912 | 19.19 ug/L | 96 |
| 40) Chloroform | 4.682 | 83 | 145652 | 21.96 ug/L | 99 |
| 41) Cyclohexane | 4.986 | 56 | 3388 | 0.21 ug/L # | 21 |
| 43) 1,1,1-Trichloroethane | 4.902 | 97 | 112367 | 23.36 ug/L | 99 |
| 45) Carbon tetrachloride | 5.132 | 117 | 89071 | 22.94 ug/L | 99 |
| 46) 1,1-Dichloropropene | 5.159 | 75 | 101056 | 21.90 ug/L | 100 |
| 48) 1,2-Dichloroethane | 5.594 | 62 | 116556 | 20.87 ug/L | 100 |
| 49) Benzene | 5.473 | 78 | 415796 | 27.67 ug/L | 100 |
| 50) Tertiaryamylmethylether | 5.746 | 73 | 183424 | 21.25 ug/L | 97 |
| 51) Isobutyl Alcohol | 5.741 | 43 | 59343 | 20.36 ug/L | 99 |
| 52) Heptane | 6.097 | 43 | 4808 | 2.02 ug/L # | 40 |
| 53) 1,4-Dioxane | 6.920 | 88 | 4226 | 53.96 ug/L | 92 |
| 54) Methylcyclohexane | 6.889 | 83 | 585 | 0.34 ug/L # | 1 |
| 55) n-Butanol | 0.000 | | 0 | N.D. | |
| 56) Trichloroethene | 6.574 | 130 | 77783 | 21.10 ug/L | 100 |
| 57) 1,2-Dichloropropane | 6.889 | 63 | 83684 | 21.68 ug/L # | 79 |
| 58) Dibromomethane | 6.983 | 93 | 55315 | 21.35 ug/L | 99 |
| 59) Methyl methacrylate | 7.004 | 41 | 83725 | 17.90 ug/L | 99 |
| 60) Bromodichloromethane | 7.183 | 83 | 96445 | 21.22 ug/L | 99 |
| 61) 2-Chloroethyl vinyl ether | 7.408 | 43 | 29845 | 25.02 ug/L # | 1 |
| 62) 2-Nitropropane | 7.408 | 43 | 29845 | 19.26 ug/L | 98 |
| 63) cis-1,3-Dichloropropene | 7.591 | 75 | 103624 | 17.87 ug/L | 99 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 263672 | 41.00 ug/L | 85 |
| 67) Toluene | 7.859 | 91 | 388145 | 24.03 ug/L | 99 |
| 68) trans-1,3-Dichloropropene | 8.063 | 75 | 92244 | 18.99 ug/L | 95 |
| 69) Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) Ethyl methacrylate | 8.116 | 69 | 108160 | 19.79 ug/L | 100 |
| 71) 1,1,2-Trichloroethane | 8.205 | 97 | 84700 | 21.14 ug/L | 99 |
| 72) Tetrachloroethene | 8.247 | 166 | 84794 | 22.15 ug/L | 99 |
| 73) 1,3-Dichloropropane | 8.315 | 76 | 139691 | 20.29 ug/L | 98 |
| 74) 2-Hexanone | 8.367 | 43 | 106902 | 21.79 ug/L | 96 |
| 75) Chlorodibromomethane | 8.467 | 129 | 69244 | 18.11 ug/L | 97 |
| 76) Butyl acetate | 8.457 | 43 | 147700 | 18.67 ug/L | 98 |
| 77) 1,2-Dibromoethane | 8.535 | 107 | 86119 | 24.03 ug/L | 99 |
| 78) Chlorobenzene | 8.860 | 112 | 203111 | 20.40 ug/L | 100 |
| 79) 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 68267 | 20.88 ug/L | 98 |
| 80) Ethylbenzene | 8.923 | 91 | 344597 | 20.77 ug/L | 100 |
| 81) m/p-Xylene | 9.002 | 91 | 536140 | 41.34 ug/L | 100 |
| 82) Styrene | 9.243 | 104 | 217381 | 24.15 ug/L | 100 |
| 83) o-Xylene | 9.233 | 91 | 264951 | 20.61 ug/L | 99 |
| 84) Cyclohexanone | 9.500 | 55 | 8627 | 25.57 ug/L | 97 |
| 85) Bromoform | 9.353 | 173 | 47243 | 19.37 ug/L | 99 |
| 86) Isopropylbenzene | 9.442 | 105 | 307419 | 20.32 ug/L | 100 |
| 88) Bromobenzene | 9.620 | 77 | 200873 | 21.35 ug/L | 99 |
| 89) 1,2,3-Trichloropropane | 9.647 | 110 | 43821 | 21.03 ug/L | 99 |
| 90) trans-1,4-Dichloro-2-b... | 9.636 | 53 | 36520 | 20.98 ug/L | 87 |
| 91) n-Propylbenzene | 9.668 | 91 | 368690 | 19.15 ug/L | 99 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP14.D
Acq On : 15 Sep 2018 05:13 pm
Operator : LNS
Sample : 1809940-01B MS DF100
Misc :
ALS Vial : 13 Sample Multiplier: 1

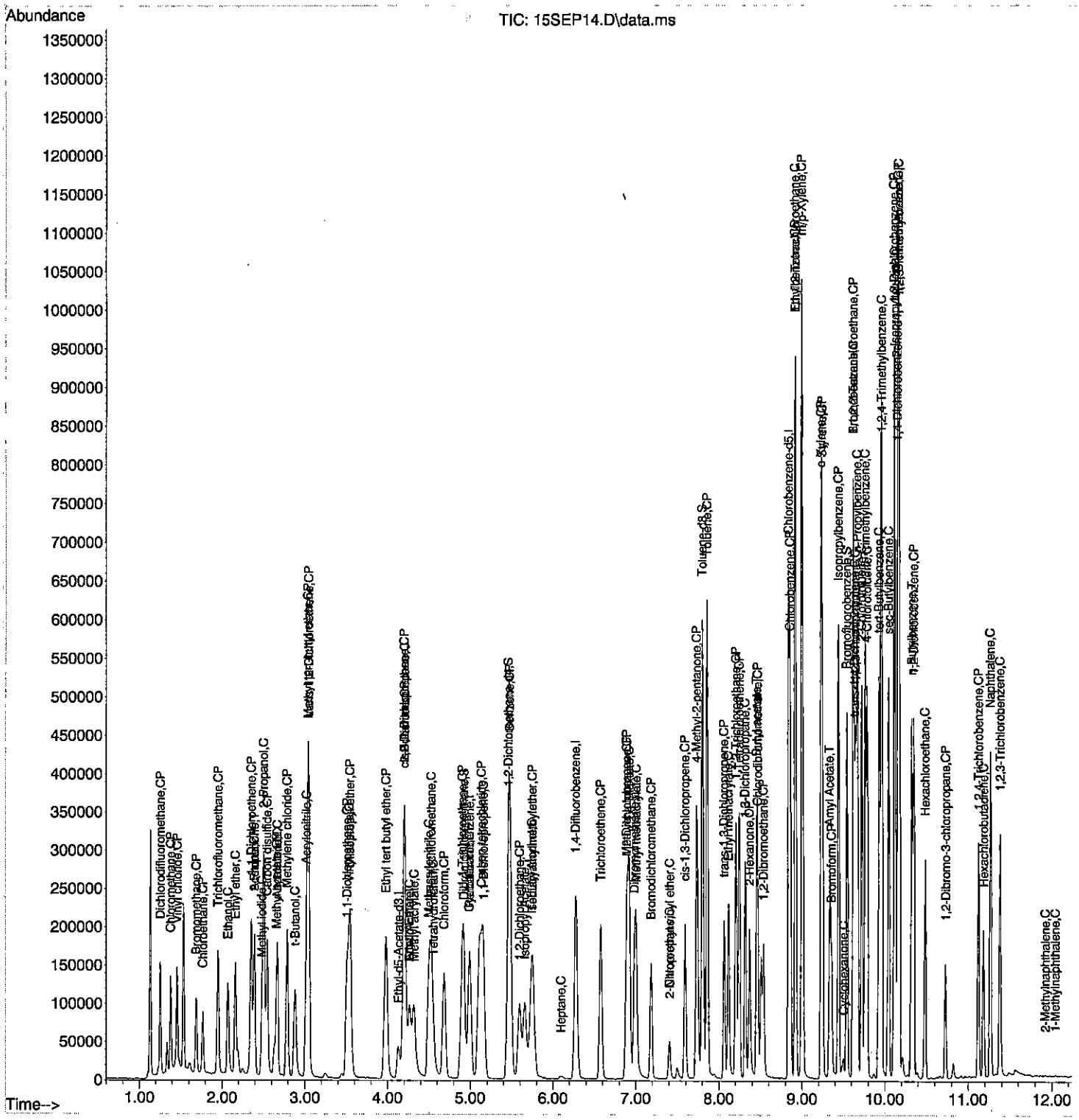
Quant Time: Sep 16 10:38:58 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) | 2-Chlorotoluene | 9.720 | 91 | 227889 | 22.02 ug/L | 99 |
| 93) | 4-Chlorotoluene | 9.783 | 91 | 263476 | 20.13 ug/L | 99 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 247124 | 20.46 ug/L | 100 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 136805 | 18.66 ug/L | 92 |
| 96) | 1,2,4-Trimethylbenzene | 9.961 | 105 | 257680 | 20.27 ug/L | 99 |
| 97) | sec-Butylbenzene | 10.045 | 105 | 281663 | 20.35 ug/L | 100 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.620 | 83 | 148027 | 20.50 ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 10.113 | 146 | 147251 | 19.58 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 234863 | 19.11 ug/L | 99 |
| 102) | 1,4-Dichlorobenzene | 10.166 | 146 | 149242 | 18.91 ug/L | 98 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 270459 | 19.12 ug/L | 99 |
| 104) | Benzyl chloride | 0.000 | | 0 | N.D. d | |
| 105) | 1,2-Dichlorobenzene | 10.344 | 146 | 142084 | 19.26 ug/L | 98 |
| 106) | n-Butylbenzene | 10.323 | 91 | 205588 | 19.57 ug/L | 98 |
| 107) | Hexachloroethane | 10.480 | 117 | 36308 | 19.06 ug/L | 99 |
| 108) | 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 29388 | 19.67 ug/L | 98 |
| 109) | 1,3,5-Trichlorobenzene | 0.000 | | 0 | N.D. | |
| 110) | 1,2,4-Trichlorobenzene | 11.125 | 180 | 74194 | 18.10 ug/L | 99 |
| 111) | Hexachlorobutadiene | 11.183 | 225 | 29538 | 18.76 ug/L | 97 |
| 112) | Naphthalene | 11.267 | 128 | 267085 | 19.99 ug/L | 100 |
| 113) | 1,2,3-Trichlorobenzene | 11.382 | 180 | 77203 | 18.00 ug/L | 100 |
| 114) | 2-Methylnaphthalene | 11.922 | 142 | 397 | 0.10 ug/L | 79 |
| 115) | 1-Methylnaphthalene | 12.043 | 142 | 395 | 0.17 ug/L # | 54 |
| 117) | 2-Propanone | 2.390 | 43 | 185168 | 62.98 ug/L | 100 |
| 118) | Acetic Ether | 4.262 | 43 | 144416 | 22.62 ug/L | 99 |
| 119) | Isopropyl Acetate | 5.657 | 61 | 32601 | 17.27 ug/L | 94 |
| 120) | Amyl Acetate | 9.332 | 43 | 114510 | 18.47 ug/L | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP14.D
Acq On : 15 Sep 2018 05:13 pm
Operator : LNS
Sample : 1809940-01B MS DF100
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 10:38:58 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WG00913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\VMS10\10V180915\
Data File : 15SEP15.D
Acq On : 15 Sep 2018 05:30 pm
Operator : LNS
Sample : 1809940-01B MSD DF100
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 10:39:01 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 4.991 | 168 | 162586 | 20.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.275 | 114 | 261696 | 20.00 | ug/L | 0.00 |
| 64) Chlorobenzene-d5 | 8.839 | 117 | 256039 | 20.00 | ug/L | 0.00 |
| 98) 1,4-Dichlorobenzene-d4 | 10.150 | 152 | 127324 | 20.00 | ug/L | 0.00 |
| 116) Ethyl-d5-Acetate-d3 | 4.131 | 46 | 76851 | 20.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 44) Dibromofluoromethane | 4.918 | 111 | 95030 | 20.56 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 115 | | Recovery = 102.80% | | | |
| 47) 1,2-Dichloroethane-d4 | 5.458 | 65 | 114276 | 20.20 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 75 - 120 | | Recovery = 101.00% | | | |
| 66) Toluene-d8 | 7.801 | 98 | 353489 | 20.16 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 85 - 110 | | Recovery = 100.80% | | | |
| 87) Bromofluorobenzene | 9.542 | 95 | 131324 | 20.93 | ug/L | 0.00 |
| Spiked Amount 20.000 | Range 80 - 110 | | Recovery = 104.65% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.253 | 85 | 96990 | 20.18 | ug/L | 100 |
| 3) Chloromethane | 1.378 | 50 | 90102 | 13.10 | ug/L | 100 |
| 4) Vinyl chloride | 1.457 | 62 | 94639 | 20.89 | ug/L | 98 |
| 5) Bromomethane | 1.688 | 96 | 45424 | 38.85 | ug/L | 99 |
| 6) Chloroethane | 1.766 | 64 | 56775 | 21.81 | ug/L | 99 |
| 7) Trichlorofluoromethane | 1.950 | 101 | 110342 | 21.63 | ug/L | 100 |
| 8) Ethanol | 2.071 | 45 | 114934 | 360.21 | ug/L | 99 |
| 9) Ethyl ether | 2.160 | 59 | 68599 | 21.99 | ug/L | 97 |
| 10) Acrolein | 2.312 | 56 | 466 | Below Cal | | 94 |
| 11) 1,1-Dichloroethene | 2.354 | 61 | 120436 | 23.17 | ug/L | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 0.000 | | 0 | N.D. | | |
| 13) Methyl iodide | 2.485 | 142 | 59683 | 70.05 | ug/L | 99 |
| 14) Acetone | 2.390 | 43 | 186957 | 64.71 | ug/L | 98 |
| 15) 2-Propanol | 2.501 | 45 | 313604 | 404.21 | ug/L | 97 |
| 16) Chloroprene | 0.000 | | 0 | N.D. | | |
| 17) Carbon disulfide | 2.542 | 76 | 222791 | 24.45 | ug/L | 100 |
| 18) Allyl chloride | 2.668 | 41 | 140939 | 24.09 | ug/L | 97 |
| 19) Methyl acetate | 2.658 | 43 | 3193 | 0.41 | ug/L # | 1 |
| 20) Acetonitrile | 2.668 | 41 | 140939 | 24.09 | ug/L | 97 |
| 21) Methylene chloride | 2.789 | 49 | 108528 | 21.07 | ug/L | 99 |
| 22) trans-1,2-Dichloroethene | 3.046 | 61 | 119781 | 23.30 | ug/L | 99 |
| 23) t-Butanol | 2.883 | 59 | 121961 | 103.63 | ug/L | 98 |
| 24) Acrylonitrile | 3.020 | 53 | 82279 | 26.89 | ug/L | 98 |
| 25) Methyl tert-butyl ether | 3.035 | 73 | 229292 | 22.02 | ug/L | 99 |
| 26) Hexane | 3.324 | 57 | 370 | 0.11 | ug/L # | 29 |
| 27) 1,1-Dichloroethane | 3.507 | 63 | 154061 | 21.85 | ug/L | 100 |
| 28) Diisopropyl ether | 3.544 | 45 | 214371 | 19.99 | ug/L # | 57 |
| 29) Vinyl acetate | 3.528 | 86 | 131 | 1.22 | ug/L # | 1 |
| 30) Ethyl tert butyl ether | 3.979 | 59 | 196795 | 20.49 | ug/L | 98 |
| 31) 2,2-Dichloropropane | 4.204 | 77 | 96948 | 22.52 | ug/L | 99 |
| 32) cis-1,2-Dichloroethene | 4.199 | 61 | 130952 | 22.40 | ug/L | 99 |
| 33) 2-Butanone | 4.204 | 43 | 118367 | 30.65 | ug/L | 100 |
| 34) Ethyl Acetate | 4.262 | 43 | 146829 | 19.04 | ug/L | 99 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP15.D
Acq On : 15 Sep 2018 05:30 pm
Operator : LNS
Sample : 1809940-01B MSD DF100
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 10:39:01 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Methyl acrylate | 4.320 | 55 | 128388 | 19.84 ug/L | 100 |
| 36) Propionitrile | 0.000 | | 0 | N.D. | |
| 37) Bromochloromethane | 4.524 | 49 | 72685 | 22.34 ug/L | 99 |
| 38) Tetrahydrofuran | 4.545 | 42 | 57954 | 19.97 ug/L | 99 |
| 39) Methacrylonitrile | 4.498 | 41 | 111109 | 26.75 ug/L # | 74 |
| 40) Chloroform | 4.682 | 83 | 148828 | 21.89 ug/L | 100 |
| 41) Cyclohexane | 4.996 | 56 | 3496 | 0.21 ug/L # | 25 |
| 43) 1,1,1-Trichloroethane | 4.902 | 97 | 115712 | 23.33 ug/L | 100 |
| 45) Carbon tetrachloride | 5.133 | 117 | 91745 | 22.91 ug/L | 99 |
| 46) 1,1-Dichloropropene | 5.153 | 75 | 104296 | 21.92 ug/L | 99 |
| 48) 1,2-Dichloroethane | 5.594 | 62 | 116611 | 20.25 ug/L | 98 |
| 49) Benzene | 5.473 | 78 | 419236 | 27.06 ug/L | 100 |
| 50) Tertiaryamylmethylether | 5.746 | 73 | 188632 | 21.19 ug/L | 97 |
| 51) Isobutyl Alcohol | 5.746 | 43 | 57384 | 19.06 ug/L | 95 |
| 52) Heptane | 6.097 | 43 | 4167 | 1.70 ug/L # | 46 |
| 53) 1,4-Dioxane | 6.915 | 88 | 4621 | 56.04 ug/L | 96 |
| 54) Methylcyclohexane | 6.889 | 83 | 491 | 0.32 ug/L # | 1 |
| 55) n-Butanol | 0.000 | | 0 | N.D. | |
| 56) Trichloroethene | 6.574 | 130 | 80963 | 21.30 ug/L | 100 |
| 57) 1,2-Dichloropropane | 6.889 | 63 | 85568 | 21.50 ug/L # | 78 |
| 58) Dibromomethane | 6.983 | 93 | 56938 | 21.31 ug/L | 98 |
| 59) Methyl methacrylate | 6.999 | 41 | 86035 | 17.84 ug/L | 99 |
| 60) Bromodichloromethane | 7.183 | 83 | 99182 | 21.16 ug/L | 97 |
| 61) 2-Chloroethyl vinyl ether | 7.534 | 43 | 149 | 0.26 ug/L # | 8 |
| 62) 2-Nitropropane | 7.403 | 43 | 30904 | 19.34 ug/L | 99 |
| 63) cis-1,3-Dichloropropene | 7.591 | 75 | 109055 | 18.24 ug/L | 98 |
| 65) 4-Methyl-2-pentanone | 7.733 | 43 | 267543 | 40.41 ug/L | 84 |
| 67) Toluene | 7.859 | 91 | 397049 | 23.88 ug/L | 100 |
| 68) trans-1,3-Dichloropropene | 8.063 | 75 | 95704 | 19.12 ug/L | 95 |
| 69) Chloropicrin | 0.000 | | 0 | N.D. | |
| 70) Ethyl methacrylate | 8.116 | 69 | 111040 | 19.74 ug/L | 99 |
| 71) 1,1,2-Trichloroethane | 8.205 | 97 | 85345 | 20.69 ug/L | 99 |
| 72) Tetrachloroethene | 8.247 | 166 | 86769 | 22.02 ug/L | 99 |
| 73) 1,3-Dichloropropane | 8.315 | 76 | 144161 | 20.34 ug/L | 99 |
| 74) 2-Hexanone | 8.367 | 43 | 107868 | 21.36 ug/L | 96 |
| 75) Chlorodibromomethane | 8.467 | 129 | 70994 | 18.04 ug/L | 98 |
| 76) Butyl acetate | 8.457 | 43 | 150579 | 18.49 ug/L | 98 |
| 77) 1,2-Dibromoethane | 8.535 | 107 | 87363 | 23.68 ug/L | 98 |
| 78) Chlorobenzene | 8.860 | 112 | 206737 | 20.16 ug/L | 99 |
| 79) 1,1,1,2-Tetrachloroethane | 8.923 | 131 | 70140 | 20.84 ug/L | 99 |
| 80) Ethylbenzene | 8.923 | 91 | 350269 | 20.51 ug/L | 100 |
| 81) m/p-Xylene | 9.002 | 91 | 551708 | 41.32 ug/L | 100 |
| 82) Styrene | 9.243 | 104 | 221664 | 23.94 ug/L | 99 |
| 83) o-Xylene | 9.233 | 91 | 267456 | 20.22 ug/L | 99 |
| 84) Cyclohexanone | 9.500 | 55 | 8835 | 25.44 ug/L | 96 |
| 85) Bromoform | 9.353 | 173 | 47642 | 18.98 ug/L | 99 |
| 86) Isopropylbenzene | 9.442 | 105 | 314893 | 20.22 ug/L | 100 |
| 88) Bromobenzene | 9.621 | 77 | 204126 | 21.07 ug/L | 99 |
| 89) 1,2,3-Trichloropropane | 9.647 | 110 | 44278 | 20.64 ug/L | 99 |
| 90) trans-1,4-Dichloro-2-b... | 9.636 | 53 | 36379 | 20.30 ug/L | 88 |
| 91) n-Propylbenzene | 9.668 | 91 | 381638 | 19.25 ug/L | 100 |

Data Path : E:\VMS10\10V180915\
Data File : 15SEP15.D
Acq On : 15 Sep 2018 05:30 pm
Operator : LNS
Sample : 1809940-01B MSD DF100
Misc :
ALS Vial : 14 Sample Multiplier: 1

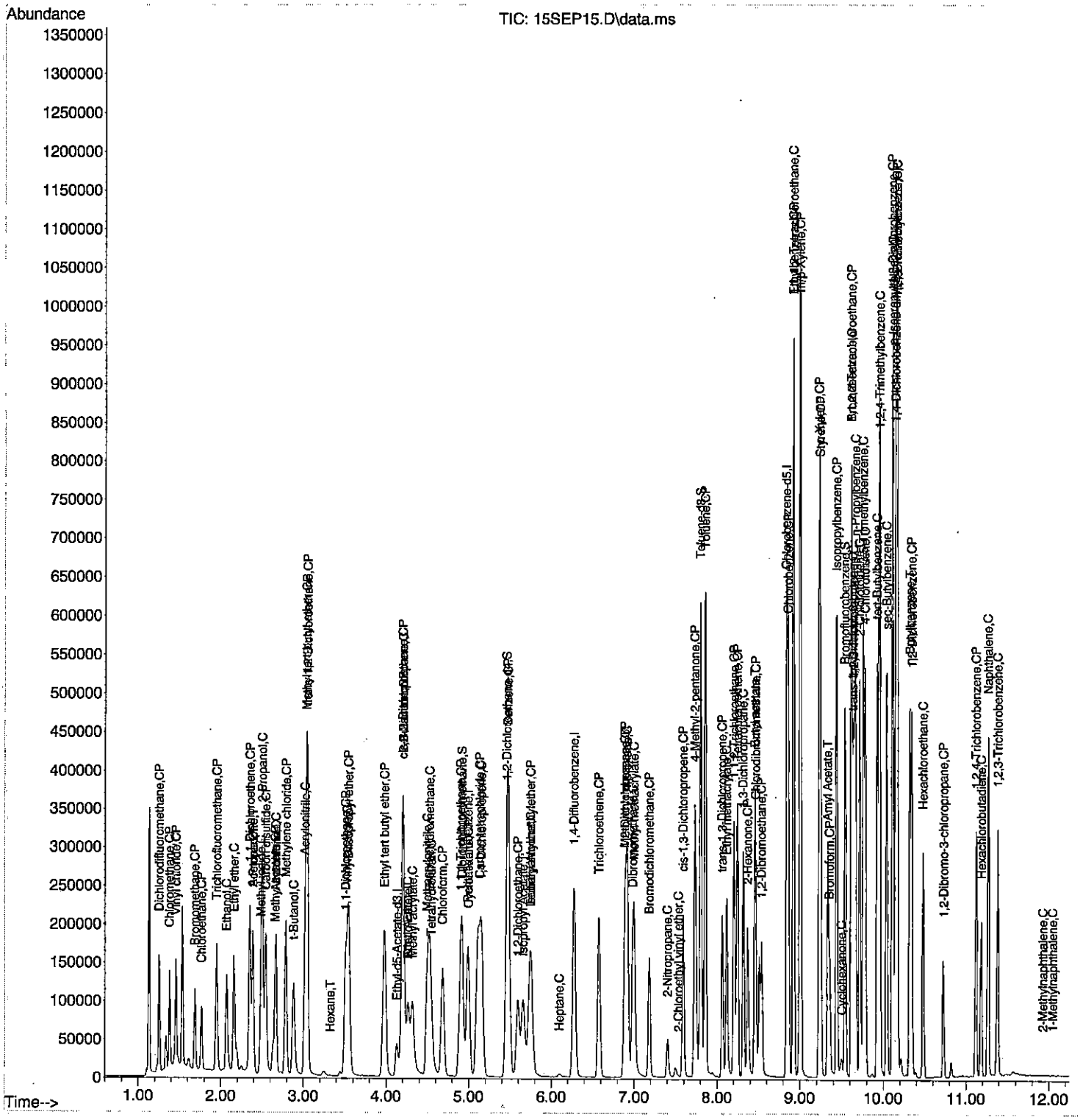
Quant Time: Sep 16 10:39:01 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WGO0913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) | 2-Chlorotoluene | 9.720 | 91 | 228461 | 21.44 ug/L | 100 |
| 93) | 4-Chlorotoluene | 9.783 | 91 | 266441 | 19.78 ug/L | 99 |
| 94) | 1,3,5-Trimethylbenzene | 9.762 | 105 | 257347 | 20.68 ug/L | 98 |
| 95) | tert-Butylbenzene | 9.930 | 91 | 142479 | 18.87 ug/L | 93 |
| 96) | 1,2,4-Trimethylbenzene | 9.961 | 105 | 262098 | 20.04 ug/L | 98 |
| 97) | sec-Butylbenzene | 10.045 | 105 | 289966 | 20.35 ug/L | 100 |
| 99) | 1,1,2,2-Tetrachloroethane | 9.621 | 83 | 149059 | 20.68 ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 10.113 | 146 | 151295 | 20.15 ug/L | 99 |
| 101) | p-Isopropyltoluene | 10.119 | 119 | 240814 | 19.61 ug/L | 99 |
| 102) | 1,4-Dichlorobenzene | 10.166 | 146 | 154109 | 19.56 ug/L | 98 |
| 103) | 1,2,3-Trimethylbenzene | 10.171 | 105 | 277704 | 19.66 ug/L | 100 |
| 104) | Benzyl chloride | 0.000 | | 0 | N.D. d | |
| 105) | 1,2-Dichlorobenzene | 10.344 | 146 | 142472 | 19.34 ug/L | 98 |
| 106) | n-Butylbenzene | 10.323 | 91 | 211259 | 20.12 ug/L | 99 |
| 107) | Hexachloroethane | 10.480 | 117 | 37894 | 19.89 ug/L | 98 |
| 108) | 1,2-Dibromo-3-chloropr... | 10.727 | 157 | 29476 | 19.76 ug/L | 99 |
| 109) | 1,3,5-Trichlorobenzene | 0.000 | | 0 | N.D. | |
| 110) | 1,2,4-Trichlorobenzene | 11.120 | 180 | 77034 | 18.78 ug/L | 99 |
| 111) | Hexachlorobutadiene | 11.183 | 225 | 31900 | 20.30 ug/L | 98 |
| 112) | Naphthalene | 11.267 | 128 | 272843 | 20.39 ug/L | 100 |
| 113) | 1,2,3-Trichlorobenzene | 11.382 | 180 | 79832 | 18.61 ug/L | 99 |
| 114) | 2-Methylnaphthalene | 11.922 | 142 | 352 | 0.08 ug/L # | 77 |
| 115) | 1-Methylnaphthalene | 12.043 | 142 | 211 | 0.13 ug/L # | 3 |
| 117) | 2-Propanone | 2.390 | 43 | 186957 | 62.52 ug/L | 98 |
| 118) | Acetic Ether | 4.262 | 43 | 146829 | 22.61 ug/L | 98 |
| 119) | Isopropyl Acetate | 5.657 | 61 | 32366 | 16.87 ug/L | 92 |
| 120) | Amyl Acetate | 9.332 | 43 | 116119 | 18.41 ug/L | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\VMS10\10V180915\
Data File : 15SEP15.D
Acq On : 15 Sep 2018 05:30 pm
Operator : LNS
Sample : 1809940-01B MSD DF100
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 10:39:01 2018
Quant Method : D:\MassHunter\GCMS\1\methods\10WG00913.M
Quant Title : 8260 Global Optimization Method
QLast Update : Fri Sep 14 09:59:36 2018
Response via : Initial Calibration



2018 Sep 15 1055 Sequence Log

Starting sequence Sat Sep 15 10:55:51 2018

Instrument Name: 5977_VOA
Sequence File: D:\MassHunter\GCMS\1\sequence\10V180915.sequence.xml
Comment:
Operator: LNS
Data Path: D:\MassHunter\GCMS\1\data\10V180915\

| Line | Type | Vials | DataFile | Sample Name |
|---|---|---|---|---|
| Acquisition Method Path: D:\MassHunter\GCMS\1\methods\RUN METHODS\ | | | | |
| Acquisition Method File: BFB.M | | | | |
| 1) | TuneCheck | 1 | 15SEP01 | VBFB1-180915 |
| Acquisition Method Path: D:\MassHunter\GCMS\1\methods\RUN METHODS\ | | | | |
| Acquisition Method File: U10G08260.M | | | | |
| 2) | Sample | 1 | 15SEP02 | VCCV1-180915 |
| 3) | Sample | 2 | 15SEP03 | VLCSW1-180915 |
| 4) | Sample | 3 | 15SEP04 | LCS- |
| Sequence Table edit performed Sat Sep 15 12:45:21 2018 | | | | |
| 5) | Sample | 4 | 15SEP05 | VBLKW1-180915 |
| Sequence Table edit performed Sat Sep 15 14:49:36 2018 | | | | |
| 6) | Sample | 5 | 15SEP06 | RUSH1 DF100 |
| 7) | Sample | 6 | 15SEP07 | 1809940-01B ~~RUSH2~~ DF100 |
| 8) | Sample | 7 | 15SEP08 | 1809940-02B DF100 |
| 9) | Sample | 8 | 15SEP09 | 1809940-03B DF10 |
| 10) | Sample | 9 | 15SEP10 | 1809940-02B DF50 |
| 11) | Sample | 10 | 15SEP11 | 1809940-01B DF25 |
| 12) | Sample | 11 | 15SEP12 | 1809940-02B DF10 |
| 13) | Sample | 12 | 15SEP13 | 1809940-03B DF2 |
| 14) | Sample | 13 | 15SEP14 | 1809940-01B DF100 |
| 15) | Sample | 14 | 15SEP15 | 1809940-01B DF100 |
| 16) | Sample | 15 | 15SEP16 | BLK |
| 17) | Pause: ' ' | | | |

Sequence paused Sat Sep 15 17:59:23 2018

D:\MassHunter\GCMS\1\data\10V180915\2018 Sep 15 1055 Quality Log.LOG
D:\MassHunter\GCMS\1\data\10V180915\2018 Sep 15 1055 Sequence Log .LOG

MEB 10/31/18

# GC/MS
# Semi-Volatile Organics

ADDRESS 3352 128th Avenue, Holland Michigan 49424-9236 USA | PHONE +1 616 399 6070 | FAX +1 616 399 6185
ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

# Full Scan

ADDRESS 3352 128th Avenue, Holland Michigan 49424-9236 USA | PHONE +1 616 399 6070 | FAX +1 616 399 6185
ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-01-091418DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-01A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 92-52-4 | 1,1`-Biphenyl | 500 | UD |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1,000 | UD |
| 123-91-1 | 1,4-Dioxane | 500 | JUD |
| 108-60-1 | 2,2`-Oxybis(1-chloropropane | 500 | UD |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 500 | UD |
| 95-95-4 | 2,4,5-Trichlorophenol | 500 | UD |
| 88-06-2 | 2,4,6-Trichlorophenol | 500 | UD |
| 120-83-2 | 2,4-Dichlorophenol | 500 | UD |
| 105-67-9 | 2,4-Dimethylphenol | 500 | JUD |
| 51-28-5 | 2,4-Dinitrophenol | 500 | UD |
| 121-14-2 | 2,4-Dinitrotoluene | 500 | UD |
| 606-20-2 | 2,6-Dinitrotoluene | 500 | UD |
| 91-58-7 | 2-Chloronaphthalene | 500 | JUD |
| 95-57-8 | 2-Chlorophenol | 500 | UD |
| 91-57-6 | 2-Methylnaphthalene | 500 | JUD |
| 95-48-7 | 2-Methylphenol | 610 | D |
| 88-74-4 | 2-Nitroaniline | 500 | UD |
| 88-75-5 | 2-Nitrophenol | 500 | UD |
| 34METPH | 3&4-Methylphenol | 560 | D |
| 91-94-1 | 3,3`-Dichlorobenzidine | 500 | UD |
| 99-09-2 | 3-Nitroaniline | 500 | UD |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 500 | UD |
| 101-55-3 | 4-Bromophenyl phenyl ether | 500 | UD |
| 59-50-7 | 4-Chloro-3-methylphenol | 500 | UD |
| 106-47-8 | 4-Chloroaniline | 500 | UD |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 500 | UD |
| 100-01-6 | 4-Nitroaniline | 500 | UD |
| 100-02-7 | 4-Nitrophenol | 500 | UD |
| 83-32-9 | Acenaphthene | 500 | UD |
| 208-96-8 | Acenaphthylene | 500 | UD |
| 98-86-2 | Acetophenone | 140 | D |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-01-091418DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-01A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 120-12-7 | Anthracene | 500 | UD |
| 1912-24-9 | Atrazine | 100 | UD |
| 100-52-7 | Benzaldehyde | 100 | UD |
| 56-55-3 | Benzo(a)anthracene | 500 | UD |
| 50-32-8 | Benzo(a)pyrene | 500 | UD |
| 205-99-2 | Benzo(b)fluoranthene | 500 | UD |
| 191-24-2 | Benzo(g,h,i)perylene | 500 | UD |
| 207-08-9 | Benzo(k)fluoranthene | 500 | UD |
| 111-91-1 | Bis(2-chloroethoxy)methane | 500 | UD |
| 111-44-4 | Bis(2-chloroethyl)ether | 500 | UD |
| 39638-32-9 | Bis(2-chloroisopropyl)ether | 500 | UD |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 500 | UD |
| 85-68-7 | Butyl benzyl phthalate | 500 | UD |
| 86-74-8 | Carbazole | 500 | UD |
| 218-01-9 | Chrysene | 500 | UD |
| 53-70-3 | Dibenzo(a,h)anthracene | 500 | UD |
| 132-64-9 | Dibenzofuran | 500 | UD |
| 84-66-2 | Diethyl phthalate | 500 | UD |
| 131-11-3 | Dimethyl phthalate | 500 | UD |
| 84-74-2 | Di-n-butyl phthalate | 500 | UD |
| 117-84-0 | Di-n-octyl phthalate | 500 | UD |
| 206-44-0 | Fluoranthene | 500 | UD |
| 86-73-7 | Fluorene | 500 | UD |
| 118-74-1 | Hexachlorobenzene | 500 | UD |
| 87-68-3 | Hexachlorobutadiene | 500 | UD |
| 77-47-4 | Hexachlorocyclopentadiene | 500 | UD |
| 67-72-1 | Hexachloroethane | 500 | UD |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 500 | UD |
| 78-59-1 | Isophorone | 500 | UD |
| 91-20-3 | Naphthalene | 500 | JUD |
| 98-95-3 | Nitrobenzene | 500 | UD |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-01-091418DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-01A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 621-64-7 | N-Nitrosodi-n-propylamine | 500 | UD |
| 86-30-6 | N-Nitrosodiphenylamine | 500 | UD |
| 87-86-5 | Pentachlorophenol | 500 | UD |
| 85-01-8 | Phenanthrene | 500 | UD |
| 108-95-2 | Phenol | 970 | D |
| 129-00-0 | Pyrene | 500 | UD |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-01-091418DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-01A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 500.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 105-60-2 | Caprolactam | 11,000 | D |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-02-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-02A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 92-52-4 | 1,1`-Biphenyl | 250 | UD |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 500 | UD |
| 123-91-1 | 1,4-Dioxane | 250 | JUD |
| 108-60-1 | 2,2`-Oxybis(1-chloropropane | 250 | UD |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 250 | UD |
| 95-95-4 | 2,4,5-Trichlorophenol | 250 | UD |
| 88-06-2 | 2,4,6-Trichlorophenol | 250 | UD |
| 120-83-2 | 2,4-Dichlorophenol | 250 | UD |
| 105-67-9 | 2,4-Dimethylphenol | 250 | UD |
| 51-28-5 | 2,4-Dinitrophenol | 250 | UD |
| 121-14-2 | 2,4-Dinitrotoluene | 250 | UD |
| 606-20-2 | 2,6-Dinitrotoluene | 250 | UD |
| 91-58-7 | 2-Chloronaphthalene | 250 | UD |
| 95-57-8 | 2-Chlorophenol | 250 | UD |
| 91-57-6 | 2-Methylnaphthalene | 250 | UD |
| 95-48-7 | 2-Methylphenol | 250 | JUD |
| 88-74-4 | 2-Nitroaniline | 250 | UD |
| 88-75-5 | 2-Nitrophenol | 250 | UD |
| 34METPH | 3&4-Methylphenol | 250 | JUD |
| 91-94-1 | 3,3`-Dichlorobenzidine | 250 | UD |
| 99-09-2 | 3-Nitroaniline | 250 | UD |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 250 | UD |
| 101-55-3 | 4-Bromophenyl phenyl ether | 250 | UD |
| 59-50-7 | 4-Chloro-3-methylphenol | 250 | UD |
| 106-47-8 | 4-Chloroaniline | 250 | UD |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 250 | UD |
| 100-01-6 | 4-Nitroaniline | 250 | UD |
| 100-02-7 | 4-Nitrophenol | 250 | UD |
| 83-32-9 | Acenaphthene | 250 | UD |
| 208-96-8 | Acenaphthylene | 250 | UD |
| 98-86-2 | Acetophenone | 50 | JUD |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-02-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-02A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 120-12-7 | Anthracene | 250 | UD |
| 1912-24-9 | Atrazine | 50 | UD |
| 100-52-7 | Benzaldehyde | 50 | UD |
| 56-55-3 | Benzo(a)anthracene | 250 | UD |
| 50-32-8 | Benzo(a)pyrene | 250 | UD |
| 205-99-2 | Benzo(b)fluoranthene | 250 | UD |
| 191-24-2 | Benzo(g,h,i)perylene | 250 | UD |
| 207-08-9 | Benzo(k)fluoranthene | 250 | UD |
| 111-91-1 | Bis(2-chloroethoxy)methane | 250 | UD |
| 111-44-4 | Bis(2-chloroethyl)ether | 250 | UD |
| 39638-32-9 | Bis(2-chloroisopropyl)ether | 250 | UD |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 250 | UD |
| 85-68-7 | Butyl benzyl phthalate | 250 | UD |
| 105-60-2 | Caprolactam | 2,800 | D |
| 86-74-8 | Carbazole | 250 | UD |
| 218-01-9 | Chrysene | 250 | UD |
| 53-70-3 | Dibenzo(a,h)anthracene | 250 | UD |
| 132-64-9 | Dibenzofuran | 250 | UD |
| 84-66-2 | Diethyl phthalate | 250 | UD |
| 131-11-3 | Dimethyl phthalate | 250 | UD |
| 84-74-2 | Di-n-butyl phthalate | 250 | UD |
| 117-84-0 | Di-n-octyl phthalate | 250 | UD |
| 206-44-0 | Fluoranthene | 250 | UD |
| 86-73-7 | Fluorene | 250 | UD |
| 118-74-1 | Hexachlorobenzene | 250 | UD |
| 87-68-3 | Hexachlorobutadiene | 250 | UD |
| 77-47-4 | Hexachlorocyclopentadiene | 250 | UD |
| 67-72-1 | Hexachloroethane | 250 | UD |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 250 | UD |
| 78-59-1 | Isophorone | 250 | UD |
| 91-20-3 | Naphthalene | 250 | UD |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-02-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-02A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 98-95-3 | Nitrobenzene | 250 | UD |
| 621-64-7 | N-Nitrosodi-n-propylamine | 250 | UD |
| 86-30-6 | N-Nitrosodiphenylamine | 250 | UD |
| 87-86-5 | Pentachlorophenol | 250 | UD |
| 85-01-8 | Phenanthrene | 250 | UD |
| 108-95-2 | Phenol | 250 | JUD |
| 129-00-0 | Pyrene | 250 | UD |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-03-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-03A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 92-52-4 | 1,1`-Biphenyl | 250 | UD |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 500 | UD |
| 123-91-1 | 1,4-Dioxane | 250 | JUD |
| 108-60-1 | 2,2`-Oxybis(1-chloropropane | 250 | UD |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 250 | UD |
| 95-95-4 | 2,4,5-Trichlorophenol | 250 | UD |
| 88-06-2 | 2,4,6-Trichlorophenol | 250 | UD |
| 120-83-2 | 2,4-Dichlorophenol | 250 | UD |
| 105-67-9 | 2,4-Dimethylphenol | 250 | UD |
| 51-28-5 | 2,4-Dinitrophenol | 250 | UD |
| 121-14-2 | 2,4-Dinitrotoluene | 250 | UD |
| 606-20-2 | 2,6-Dinitrotoluene | 250 | UD |
| 91-58-7 | 2-Chloronaphthalene | 250 | JUD |
| 95-57-8 | 2-Chlorophenol | 250 | UD |
| 91-57-6 | 2-Methylnaphthalene | 250 | JUD |
| 95-48-7 | 2-Methylphenol | 250 | JUD |
| 88-74-4 | 2-Nitroaniline | 250 | UD |
| 88-75-5 | 2-Nitrophenol | 250 | UD |
| 34METPH | 3&4-Methylphenol | 250 | JUD |
| 91-94-1 | 3,3`-Dichlorobenzidine | 250 | UD |
| 99-09-2 | 3-Nitroaniline | 250 | UD |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 250 | UD |
| 101-55-3 | 4-Bromophenyl phenyl ether | 250 | UD |
| 59-50-7 | 4-Chloro-3-methylphenol | 250 | UD |
| 106-47-8 | 4-Chloroaniline | 250 | UD |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 250 | UD |
| 100-01-6 | 4-Nitroaniline | 250 | UD |
| 100-02-7 | 4-Nitrophenol | 250 | UD |
| 83-32-9 | Acenaphthene | 250 | UD |
| 208-96-8 | Acenaphthylene | 250 | UD |
| 98-86-2 | Acetophenone | 53 | D |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-03-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-03A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 120-12-7 | Anthracene | 250 | JUD |
| 1912-24-9 | Atrazine | 50 | UD |
| 100-52-7 | Benzaldehyde | 50 | UD |
| 56-55-3 | Benzo(a)anthracene | 250 | UD |
| 50-32-8 | Benzo(a)pyrene | 250 | UD |
| 205-99-2 | Benzo(b)fluoranthene | 250 | UD |
| 191-24-2 | Benzo(g,h,i)perylene | 250 | UD |
| 207-08-9 | Benzo(k)fluoranthene | 250 | UD |
| 111-91-1 | Bis(2-chloroethoxy)methane | 250 | UD |
| 111-44-4 | Bis(2-chloroethyl)ether | 250 | UD |
| 39638-32-9 | Bis(2-chloroisopropyl)ether | 250 | UD |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 250 | UD |
| 85-68-7 | Butyl benzyl phthalate | 250 | UD |
| 105-60-2 | Caprolactam | 1,200 | D |
| 86-74-8 | Carbazole | 250 | UD |
| 218-01-9 | Chrysene | 250 | UD |
| 53-70-3 | Dibenzo(a,h)anthracene | 250 | UD |
| 132-64-9 | Dibenzofuran | 250 | UD |
| 84-66-2 | Diethyl phthalate | 250 | JUD |
| 131-11-3 | Dimethyl phthalate | 250 | UD |
| 84-74-2 | Di-n-butyl phthalate | 250 | UD |
| 117-84-0 | Di-n-octyl phthalate | 250 | UD |
| 206-44-0 | Fluoranthene | 250 | UD |
| 86-73-7 | Fluorene | 250 | UD |
| 118-74-1 | Hexachlorobenzene | 250 | UD |
| 87-68-3 | Hexachlorobutadiene | 250 | UD |
| 77-47-4 | Hexachlorocyclopentadiene | 250 | UD |
| 67-72-1 | Hexachloroethane | 250 | UD |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 250 | UD |
| 78-59-1 | Isophorone | 250 | UD |
| 91-20-3 | Naphthalene | 250 | JUD |

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OTF-SW-03-091518DL

Lab Name: ALS Group, USA

Lab Code: MI01262

SDG No. 1809940

Matrix: Water

Lab Sample ID: 1809940-03A

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 9/15/2018

% Moisture: not dec. 0

Date Extracted 9/15/2018

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 9/19/2018

Injection Volume: 1 (uL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | µg/L | Q |
|---|---|---|---|
| 98-95-3 | Nitrobenzene | 250 | UD |
| 621-64-7 | N-Nitrosodi-n-propylamine | 250 | UD |
| 86-30-6 | N-Nitrosodiphenylamine | 250 | UD |
| 87-86-5 | Pentachlorophenol | 250 | UD |
| 85-01-8 | Phenanthrene | 250 | JUD |
| 108-95-2 | Phenol | 250 | JUD |
| 129-00-0 | Pyrene | 250 | UD |

# ALS Group, USA

Date: 25-Oct-18

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**MBLK** Sample ID: **SBLKW1-124572-124572** Units: µg/L Analysis Date: **9/18/2018 08:48 PM**
Client ID: Run ID: **SVMS7_180918B** SeqNo: **5264885** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | ND | 5.0 | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 10 | | | | | | | | |
| 1,4-Dioxane | ND | 5.0 | | | | | | | | |
| 2,2`-Oxybis(1-chloropropane) | ND | 5.0 | | | | | | | | |
| 2,3,4,6-Tetrachlorophenol | ND | 5.0 | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2-Chloronaphthalene | ND | 5.0 | | | | | | | | |
| 2-Chlorophenol | ND | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | | | | | | | | |
| 2-Methylphenol | ND | 5.0 | | | | | | | | |
| 2-Nitroaniline | ND | 5.0 | | | | | | | | |
| 2-Nitrophenol | ND | 5.0 | | | | | | | | |
| 3&4-Methylphenol | ND | 5.0 | | | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 5.0 | | | | | | | | |
| 3-Nitroaniline | ND | 5.0 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 5.0 | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 5.0 | | | | | | | | |
| 4-Chloroaniline | ND | 5.0 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Nitroaniline | ND | 5.0 | | | | | | | | |
| 4-Nitrophenol | ND | 5.0 | | | | | | | | |
| Acenaphthene | ND | 5.0 | | | | | | | | |
| Acenaphthylene | ND | 5.0 | | | | | | | | |
| Acetophenone | ND | 1.0 | | | | | | | | |
| Anthracene | ND | 5.0 | | | | | | | | |
| Atrazine | ND | 1.0 | | | | | | | | |
| Benzaldehyde | ND | 1.0 | | | | | | | | |
| Benzo(a)anthracene | ND | 5.0 | | | | | | | | |
| Benzo(a)pyrene | ND | 5.0 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 5.0 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 5.0 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 5.0 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bis(2-chloroisopropyl)ether | ND | 5.0 | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | | | | | |
| Butyl benzyl phthalate | ND | 5.0 | | | | | |
| Caprolactam | ND | 10 | | | | | |
| Carbazole | ND | 5.0 | | | | | |
| Chrysene | ND | 5.0 | | | | | |
| Dibenzo(a,h)anthracene | ND | 5.0 | | | | | |
| Dibenzofuran | ND | 5.0 | | | | | |
| Diethyl phthalate | ND | 5.0 | | | | | |
| Dimethyl phthalate | ND | 5.0 | | | | | |
| Di-n-butyl phthalate | ND | 5.0 | | | | | |
| Di-n-octyl phthalate | ND | 5.0 | | | | | |
| Fluoranthene | ND | 5.0 | | | | | |
| Fluorene | ND | 5.0 | | | | | |
| Hexachlorobenzene | ND | 5.0 | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | |
| Hexachlorocyclopentadiene | ND | 5.0 | | | | | |
| Hexachloroethane | ND | 5.0 | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 5.0 | | | | | |
| Isophorone | ND | 5.0 | | | | | |
| Naphthalene | ND | 5.0 | | | | | |
| Nitrobenzene | ND | 5.0 | | | | | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | | | | | |
| N-Nitrosodiphenylamine | ND | 5.0 | | | | | |
| Pentachlorophenol | ND | 5.0 | | | | | |
| Phenanthrene | ND | 5.0 | | | | | |
| Phenol | ND | 5.0 | | | | | |
| Pyrene | ND | 5.0 | | | | | |
| *Surr: 2,4,6-Tribromophenol* | *35.4* | 0 | *50* | 0 | *70.8* | *27-83* | 0 |
| *Surr: 2-Fluorobiphenyl* | *29.43* | 0 | *50* | 0 | *58.9* | *26-79* | 0 |
| *Surr: 2-Fluorophenol* | *21.38* | 0 | *50* | 0 | *42.8* | *13-56* | 0 |
| *Surr: 4-Terphenyl-d14* | *42.49* | 0 | *50* | 0 | *85* | *43-106* | 0 |
| *Surr: Nitrobenzene-d5* | *30.93* | 0 | *50* | 0 | *61.9* | *29-80* | 0 |
| *Surr: Phenol-d6* | *13.88* | 0 | *50* | 0 | *27.8* | *10-35* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**MBLK** Sample ID: **SBLKW1-124572-124572** Units: **µg/L** Analysis Date: **9/24/2018 10:36 PM**
Client ID: Run ID: **SVMS8_180924A** SeqNo: **5282610** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | ND | 5.0 | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 10 | | | | | | | | |
| 1,4-Dioxane | ND | 5.0 | | | | | | | | |
| 2,2`-Oxybis(1-chloropropane) | ND | 5.0 | | | | | | | | |
| 2,3,4,6-Tetrachlorophenol | ND | 5.0 | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2-Chloronaphthalene | ND | 5.0 | | | | | | | | |
| 2-Chlorophenol | ND | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | | | | | | | | |
| 2-Methylphenol | ND | 5.0 | | | | | | | | |
| 2-Nitroaniline | ND | 5.0 | | | | | | | | |
| 2-Nitrophenol | ND | 5.0 | | | | | | | | |
| 3&4-Methylphenol | ND | 5.0 | | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | 5.0 | | | | | | | | |
| 3-Nitroaniline | ND | 5.0 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 5.0 | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 5.0 | | | | | | | | |
| 4-Chloroaniline | ND | 5.0 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Nitroaniline | ND | 5.0 | | | | | | | | |
| 4-Nitrophenol | ND | 5.0 | | | | | | | | |
| Acenaphthene | ND | 5.0 | | | | | | | | |
| Acenaphthylene | ND | 5.0 | | | | | | | | |
| Acetophenone | ND | 1.0 | | | | | | | | |
| Anthracene | ND | 5.0 | | | | | | | | |
| Atrazine | ND | 1.0 | | | | | | | | |
| Benzaldehyde | ND | 1.0 | | | | | | | | |
| Benzo(a)anthracene | ND | 5.0 | | | | | | | | |
| Benzo(a)pyrene | ND | 5.0 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 5.0 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 5.0 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 5.0 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | | | | | |
| Butyl benzyl phthalate | ND | 5.0 | | | | | |
| Caprolactam | ND | 10 | | | | | |
| Carbazole | ND | 5.0 | | | | | |
| Chrysene | ND | 5.0 | | | | | |
| Dibenzo(a,h)anthracene | ND | 5.0 | | | | | |
| Dibenzofuran | ND | 5.0 | | | | | |
| Diethyl phthalate | ND | 5.0 | | | | | |
| Dimethyl phthalate | ND | 5.0 | | | | | |
| Di-n-butyl phthalate | ND | 5.0 | | | | | |
| Di-n-octyl phthalate | ND | 5.0 | | | | | |
| Fluoranthene | ND | 5.0 | | | | | |
| Fluorene | ND | 5.0 | | | | | |
| Hexachlorobenzene | ND | 5.0 | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | |
| Hexachlorocyclopentadiene | ND | 5.0 | | | | | |
| Hexachloroethane | ND | 5.0 | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 5.0 | | | | | |
| Isophorone | ND | 5.0 | | | | | |
| Naphthalene | ND | 5.0 | | | | | |
| Nitrobenzene | ND | 5.0 | | | | | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | | | | | |
| N-Nitrosodiphenylamine | ND | 5.0 | | | | | |
| Pentachlorophenol | ND | 5.0 | | | | | |
| Phenanthrene | ND | 5.0 | | | | | |
| Phenol | ND | 5.0 | | | | | |
| Pyrene | ND | 5.0 | | | | | |
| *Surr: 2,4,6-Tribromophenol* | *28.72* | 0 | *50* | 0 | *57.4* | *27-83* | 0 |
| *Surr: 2-Fluorobiphenyl* | *27.68* | 0 | *50* | 0 | *55.4* | *26-79* | 0 |
| *Surr: 2-Fluorophenol* | *21.44* | 0 | *50* | 0 | *42.9* | *13-56* | 0 |
| *Surr: 4-Terphenyl-d14* | *34.91* | 0 | *50* | 0 | *69.8* | *43-106* | 0 |
| *Surr: Nitrobenzene-d5* | *29.11* | 0 | *50* | 0 | *58.2* | *29-80* | 0 |
| *Surr: Phenol-d6* | *15.53* | 0 | *50* | 0 | *31.1* | *10-35* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

LCS Sample ID: **SLCSW1-124572-124572** Units: **µg/L** Analysis Date: **9/18/2018 09:08 PM**
Client ID: Run ID: **SVMS7_180918B** SeqNo: **5264888** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | 12.04 | 5.0 | 20 | 0 | 60.2 | 40-85 | 0 | | | |
| 1,2,4,5-Tetrachlorobenzene | 11.7 | 10 | 20 | 0 | 58.5 | 34-82 | 0 | | | |
| 2,2`-Oxybis(1-chloropropane) | 10.4 | 5.0 | 20 | 0 | 52 | 33-83 | 0 | | | |
| 2,3,4,6-Tetrachlorophenol | 16.04 | 5.0 | 20 | 0 | 80.2 | 43-104 | 0 | | | |
| 2,4,5-Trichlorophenol | 13.18 | 5.0 | 20 | 0 | 65.9 | 47-84 | 0 | | | |
| 2,4,6-Trichlorophenol | 13.25 | 5.0 | 20 | 0 | 66.2 | 45-83 | 0 | | | |
| 2,4-Dichlorophenol | 13.08 | 5.0 | 20 | 0 | 65.4 | 39-84 | 0 | | | |
| 2,4-Dimethylphenol | 9.55 | 5.0 | 20 | 0 | 47.8 | 34-79 | 0 | | | |
| 2,4-Dinitrophenol | 11.35 | 5.0 | 20 | 0 | 56.8 | 11-117 | 0 | | | |
| 2,4-Dinitrotoluene | 13.43 | 5.0 | 20 | 0 | 67.2 | 54-93 | 0 | | | |
| 2,6-Dinitrotoluene | 12.73 | 5.0 | 20 | 0 | 63.6 | 51-90 | 0 | | | |
| 2-Chloronaphthalene | 11.74 | 5.0 | 20 | 0 | 58.7 | 37-84 | 0 | | | |
| 2-Chlorophenol | 11.23 | 5.0 | 20 | 0 | 56.2 | 38-83 | 0 | | | |
| 2-Methylnaphthalene | 11.8 | 5.0 | 20 | 0 | 59 | 33-85 | 0 | | | |
| 2-Methylphenol | 11.65 | 5.0 | 20 | 0 | 58.2 | 29-76 | 0 | | | |
| 2-Nitroaniline | 11.94 | 5.0 | 20 | 0 | 59.7 | 45-94 | 0 | | | |
| 2-Nitrophenol | 12.06 | 5.0 | 20 | 0 | 60.3 | 41-84 | 0 | | | |
| 3&4-Methylphenol | 10.34 | 5.0 | 20 | 0 | 51.7 | 24-70 | 0 | | | |
| 3,3´-Dichlorobenzidine | 12.83 | 5.0 | 20 | 0 | 64.2 | 39-96 | 0 | | | |
| 3-Nitroaniline | 11.85 | 5.0 | 20 | 0 | 59.2 | 50-93 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 15.42 | 5.0 | 20 | 0 | 77.1 | 23-116 | 0 | | | |
| 4-Bromophenyl phenyl ether | 14.63 | 5.0 | 20 | 0 | 73.2 | 51-93 | 0 | | | |
| 4-Chloro-3-methylphenol | 12.51 | 5.0 | 20 | 0 | 62.6 | 41-86 | 0 | | | |
| 4-Chloroaniline | 12.79 | 5.0 | 20 | 0 | 64 | 44-92 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 13.2 | 5.0 | 20 | 0 | 66 | 49-89 | 0 | | | |
| 4-Nitroaniline | 11.84 | 5.0 | 20 | 0 | 59.2 | 47-98 | 0 | | | |
| 4-Nitrophenol | 5.86 | 5.0 | 20 | 0 | 29.3 | 10-43 | 0 | | | |
| Acenaphthene | 11.37 | 5.0 | 20 | 0 | 56.8 | 42-85 | 0 | | | |
| Acenaphthylene | 11.54 | 5.0 | 20 | 0 | 57.7 | 42-88 | 0 | | | |
| Acetophenone | 11.55 | 1.0 | 20 | 0 | 57.8 | 39-91 | 0 | | | |
| Anthracene | 13.76 | 5.0 | 20 | 0 | 68.8 | 55-93 | 0 | | | |
| Atrazine | 14.53 | 1.0 | 20 | 0 | 72.6 | 52-100 | 0 | | | |
| Benzaldehyde | 16.57 | 1.0 | 20 | 0 | 82.8 | 42-110 | 0 | | | |
| Benzo(a)anthracene | 14.63 | 5.0 | 20 | 0 | 73.2 | 56-91 | 0 | | | |
| Benzo(a)pyrene | 15.07 | 5.0 | 20 | 0 | 75.4 | 55-96 | 0 | | | |
| Benzo(b)fluoranthene | 14.69 | 5.0 | 20 | 0 | 73.4 | 55-99 | 0 | | | |
| Benzo(g,h,i)perylene | 15.29 | 5.0 | 20 | 0 | 76.4 | 44-102 | 0 | | | |
| Benzo(k)fluoranthene | 15.01 | 5.0 | 20 | 0 | 75 | 57-96 | 0 | | | |
| Bis(2-chloroethoxy)methane | 11.82 | 5.0 | 20 | 0 | 59.1 | 39-88 | 0 | | | |
| Bis(2-chloroethyl)ether | 10.17 | 5.0 | 20 | 0 | 50.8 | 36-91 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 13.7 | 5.0 | 20 | 0 | 68.5 | 39-113 | 0 | | | |
| Butyl benzyl phthalate | 12.43 | 5.0 | 20 | 0 | 62.2 | 49-97 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Carbazole | 13.46 | 5.0 | 20 | 0 | 67.3 | 59-92 | 0 |
| Chrysene | 13.77 | 5.0 | 20 | 0 | 68.8 | 55-92 | 0 |
| Dibenzo(a,h)anthracene | 15.44 | 5.0 | 20 | 0 | 77.2 | 47-100 | 0 |
| Dibenzofuran | 11.91 | 5.0 | 20 | 0 | 59.6 | 44-89 | 0 |
| Diethyl phthalate | 13.21 | 5.0 | 20 | 0 | 66 | 54-95 | 0 |
| Dimethyl phthalate | 12.95 | 5.0 | 20 | 0 | 64.8 | 51-92 | 0 |
| Di-n-butyl phthalate | 13.82 | 5.0 | 20 | 0 | 69.1 | 57-98 | 0 |
| Di-n-octyl phthalate | 14.34 | 5.0 | 20 | 0 | 71.7 | 36-117 | 0 |
| Fluoranthene | 14.55 | 5.0 | 20 | 0 | 72.8 | 59-93 | 0 |
| Fluorene | 12.69 | 5.0 | 20 | 0 | 63.4 | 47-91 | 0 |
| Hexachlorobenzene | 15.64 | 5.0 | 20 | 0 | 78.2 | 53-89 | 0 |
| Hexachlorobutadiene | 11.95 | 5.0 | 20 | 0 | 59.8 | 11-83 | 0 |
| Hexachlorocyclopentadiene | 9.75 | 5.0 | 20 | 0 | 48.8 | 14-75 | 0 |
| Hexachloroethane | 9.61 | 5.0 | 20 | 0 | 48 | 10-85 | 0 |
| Indeno(1,2,3-cd)pyrene | 15.35 | 5.0 | 20 | 0 | 76.8 | 46-102 | 0 |
| Isophorone | 11.99 | 5.0 | 20 | 0 | 60 | 42-90 | 0 |
| Naphthalene | 11.06 | 5.0 | 20 | 0 | 55.3 | 26-78 | 0 |
| Nitrobenzene | 12.25 | 5.0 | 20 | 0 | 61.2 | 38-86 | 0 |
| N-Nitrosodi-n-propylamine | 11.22 | 5.0 | 20 | 0 | 56.1 | 39-95 | 0 |
| N-Nitrosodiphenylamine | 13.23 | 5.0 | 20 | 0 | 66.2 | 47-94 | 0 |
| Pentachlorophenol | 13.63 | 5.0 | 20 | 0 | 68.2 | 37-94 | 0 |
| Phenanthrene | 12.42 | 5.0 | 20 | 0 | 62.1 | 51-90 | 0 |
| Phenol | 5.78 | 5.0 | 20 | 0 | 28.9 | 10-40 | 0 |
| Pyrene | 14.22 | 5.0 | 20 | 0 | 71.1 | 48-98 | 0 |
| *Surr: 2,4,6-Tribromophenol* | *35.62* | 0 | *50* | 0 | *71.2* | *27-83* | 0 |
| *Surr: 2-Fluorobiphenyl* | *27.04* | 0 | *50* | 0 | *54.1* | *26-79* | 0 |
| *Surr: 2-Fluorophenol* | *21.17* | 0 | *50* | 0 | *42.3* | *13-56* | 0 |
| *Surr: 4-Terphenyl-d14* | *34.15* | 0 | *50* | 0 | *68.3* | *43-106* | 0 |
| *Surr: Nitrobenzene-d5* | *31.15* | 0 | *50* | 0 | *62.3* | *29-80* | 0 |
| *Surr: Phenol-d6* | *14.15* | 0 | *50* | 0 | *28.3* | *10-35* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**LCS** Sample ID: **SLCSW1-124572-124572** Units: **µg/L** Analysis Date: **9/24/2018 10:56 PM**
Client ID: Run ID: **SVMS8_180924A** SeqNo: **5282611** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | 12.64 | 5.0 | 20 | 0 | 63.2 | 40-85 | 0 | | | |
| 1,2,4,5-Tetrachlorobenzene | 12.11 | 10 | 20 | 0 | 60.6 | 34-82 | 0 | | | |
| 2,2`-Oxybis(1-chloropropane) | 9.69 | 5.0 | 20 | 0 | 48.4 | 33-83 | 0 | | | |
| 2,3,4,6-Tetrachlorophenol | 14.49 | 5.0 | 20 | 0 | 72.4 | 43-104 | 0 | | | |
| 2,4,5-Trichlorophenol | 12.64 | 5.0 | 20 | 0 | 63.2 | 47-84 | 0 | | | |
| 2,4,6-Trichlorophenol | 11.87 | 5.0 | 20 | 0 | 59.4 | 45-83 | 0 | | | |
| 2,4-Dichlorophenol | 12.98 | 5.0 | 20 | 0 | 64.9 | 39-84 | 0 | | | |
| 2,4-Dimethylphenol | 8.92 | 5.0 | 20 | 0 | 44.6 | 34-79 | 0 | | | |
| 2,4-Dinitrophenol | 14.33 | 5.0 | 20 | 0 | 71.6 | 11-117 | 0 | | | |
| 2,4-Dinitrotoluene | 15.22 | 5.0 | 20 | 0 | 76.1 | 54-93 | 0 | | | |
| 2,6-Dinitrotoluene | 13.87 | 5.0 | 20 | 0 | 69.4 | 51-90 | 0 | | | |
| 2-Chloronaphthalene | 12.02 | 5.0 | 20 | 0 | 60.1 | 37-84 | 0 | | | |
| 2-Chlorophenol | 12.39 | 5.0 | 20 | 0 | 62 | 38-83 | 0 | | | |
| 2-Methylnaphthalene | 12.36 | 5.0 | 20 | 0 | 61.8 | 33-85 | 0 | | | |
| 2-Methylphenol | 11.32 | 5.0 | 20 | 0 | 56.6 | 29-76 | 0 | | | |
| 2-Nitroaniline | 12.2 | 5.0 | 20 | 0 | 61 | 45-94 | 0 | | | |
| 2-Nitrophenol | 13.51 | 5.0 | 20 | 0 | 67.6 | 41-84 | 0 | | | |
| 3&4-Methylphenol | 11.07 | 5.0 | 20 | 0 | 55.4 | 24-70 | 0 | | | |
| 3,3´-Dichlorobenzidine | 11.67 | 5.0 | 20 | 0 | 58.4 | 39-96 | 0 | | | |
| 3-Nitroaniline | 14.54 | 5.0 | 20 | 0 | 72.7 | 50-93 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 18.27 | 5.0 | 20 | 0 | 91.4 | 23-116 | 0 | | | |
| 4-Bromophenyl phenyl ether | 13.32 | 5.0 | 20 | 0 | 66.6 | 51-93 | 0 | | | |
| 4-Chloro-3-methylphenol | 12.95 | 5.0 | 20 | 0 | 64.8 | 41-86 | 0 | | | |
| 4-Chloroaniline | 13.56 | 5.0 | 20 | 0 | 67.8 | 44-92 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 13.17 | 5.0 | 20 | 0 | 65.8 | 49-89 | 0 | | | |
| 4-Nitroaniline | 14.03 | 5.0 | 20 | 0 | 70.2 | 47-98 | 0 | | | |
| 4-Nitrophenol | 6.17 | 5.0 | 20 | 0 | 30.8 | 10-43 | 0 | | | |
| Acenaphthene | 12.32 | 5.0 | 20 | 0 | 61.6 | 42-85 | 0 | | | |
| Acenaphthylene | 12.79 | 5.0 | 20 | 0 | 64 | 42-88 | 0 | | | |
| Acetophenone | 12.21 | 1.0 | 20 | 0 | 61 | 39-91 | 0 | | | |
| Anthracene | 14.18 | 5.0 | 20 | 0 | 70.9 | 55-93 | 0 | | | |
| Atrazine | 14.74 | 1.0 | 20 | 0 | 73.7 | 52-100 | 0 | | | |
| Benzaldehyde | 14.76 | 1.0 | 20 | 0 | 73.8 | 42-110 | 0 | | | |
| Benzo(a)anthracene | 14.74 | 5.0 | 20 | 0 | 73.7 | 56-91 | 0 | | | |
| Benzo(a)pyrene | 14.43 | 5.0 | 20 | 0 | 72.2 | 55-96 | 0 | | | |
| Benzo(b)fluoranthene | 14.45 | 5.0 | 20 | 0 | 72.2 | 55-99 | 0 | | | |
| Benzo(g,h,i)perylene | 14.63 | 5.0 | 20 | 0 | 73.2 | 44-102 | 0 | | | |
| Benzo(k)fluoranthene | 14.71 | 5.0 | 20 | 0 | 73.6 | 57-96 | 0 | | | |
| Bis(2-chloroethoxy)methane | 11.9 | 5.0 | 20 | 0 | 59.5 | 39-88 | 0 | | | |
| Bis(2-chloroethyl)ether | 11.83 | 5.0 | 20 | 0 | 59.2 | 36-91 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 12.11 | 5.0 | 20 | 0 | 60.6 | 39-113 | 0 | | | |
| Butyl benzyl phthalate | 11.28 | 5.0 | 20 | 0 | 56.4 | 49-97 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Carbazole | 14.9 | 5.0 | 20 | 0 | 74.5 | 59-92 | 0 |
| Chrysene | 14.4 | 5.0 | 20 | 0 | 72 | 55-92 | 0 |
| Dibenzo(a,h)anthracene | 13.44 | 5.0 | 20 | 0 | 67.2 | 47-100 | 0 |
| Dibenzofuran | 12.72 | 5.0 | 20 | 0 | 63.6 | 44-89 | 0 |
| Diethyl phthalate | 14.14 | 5.0 | 20 | 0 | 70.7 | 54-95 | 0 |
| Dimethyl phthalate | 13.61 | 5.0 | 20 | 0 | 68 | 51-92 | 0 |
| Di-n-butyl phthalate | 13.52 | 5.0 | 20 | 0 | 67.6 | 57-98 | 0 |
| Di-n-octyl phthalate | 12.92 | 5.0 | 20 | 0 | 64.6 | 36-117 | 0 |
| Fluoranthene | 14.94 | 5.0 | 20 | 0 | 74.7 | 59-93 | 0 |
| Fluorene | 13.64 | 5.0 | 20 | 0 | 68.2 | 47-91 | 0 |
| Hexachlorobenzene | 13.35 | 5.0 | 20 | 0 | 66.8 | 53-89 | 0 |
| Hexachlorobutadiene | 10.97 | 5.0 | 20 | 0 | 54.8 | 11-83 | 0 |
| Hexachlorocyclopentadiene | 8.8 | 5.0 | 20 | 0 | 44 | 14-75 | 0 |
| Hexachloroethane | 10.64 | 5.0 | 20 | 0 | 53.2 | 10-85 | 0 |
| Indeno(1,2,3-cd)pyrene | 13.21 | 5.0 | 20 | 0 | 66 | 46-102 | 0 |
| Isophorone | 11.42 | 5.0 | 20 | 0 | 57.1 | 42-90 | 0 |
| Naphthalene | 12.08 | 5.0 | 20 | 0 | 60.4 | 26-78 | 0 |
| Nitrobenzene | 11.54 | 5.0 | 20 | 0 | 57.7 | 38-86 | 0 |
| N-Nitrosodi-n-propylamine | 11.67 | 5.0 | 20 | 0 | 58.4 | 39-95 | 0 |
| N-Nitrosodiphenylamine | 13.14 | 5.0 | 20 | 0 | 65.7 | 47-94 | 0 |
| Pentachlorophenol | 13.23 | 5.0 | 20 | 0 | 66.2 | 37-94 | 0 |
| Phenanthrene | 13.12 | 5.0 | 20 | 0 | 65.6 | 51-90 | 0 |
| Phenol | 6.15 | 5.0 | 20 | 0 | 30.8 | 10-40 | 0 |
| Pyrene | 12.71 | 5.0 | 20 | 0 | 63.6 | 48-98 | 0 |
| *Surr: 2,4,6-Tribromophenol* | *33.38* | 0 | *50* | 0 | *66.8* | *27-83* | 0 |
| *Surr: 2-Fluorobiphenyl* | *27.25* | 0 | *50* | 0 | *54.5* | *26-79* | 0 |
| *Surr: 2-Fluorophenol* | *21.34* | 0 | *50* | 0 | *42.7* | *13-56* | 0 |
| *Surr: 4-Terphenyl-d14* | *30.56* | 0 | *50* | 0 | *61.1* | *43-106* | 0 |
| *Surr: Nitrobenzene-d5* | *29.67* | 0 | *50* | 0 | *59.3* | *29-80* | 0 |
| *Surr: Phenol-d6* | *15.59* | 0 | *50* | 0 | *31.2* | *10-35* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**MS** Sample ID: **1809614-01A MS** Units: **µg/L** Analysis Date: **9/18/2018 10:30 PM**
Client ID: Run ID: **SVMS7_180918B** SeqNo: **5264891** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | 11.86 | 5.0 | 20 | 0 | 59.3 | 40-85 | 0 | | | |
| 1,2,4,5-Tetrachlorobenzene | 11.44 | 10 | 20 | 0 | 57.2 | 34-82 | 0 | | | |
| 2,2`-Oxybis(1-chloropropane) | 9.34 | 5.0 | 20 | 0 | 46.7 | 33-83 | 0 | | | |
| 2,3,4,6-Tetrachlorophenol | 17.42 | 5.0 | 20 | 0 | 87.1 | 43-104 | 0 | | | |
| 2,4,5-Trichlorophenol | 15.03 | 5.0 | 20 | 0 | 75.2 | 47-84 | 0 | | | |
| 2,4,6-Trichlorophenol | 14.12 | 5.0 | 20 | 0 | 70.6 | 45-83 | 0 | | | |
| 2,4-Dichlorophenol | 13 | 5.0 | 20 | 0 | 65 | 39-84 | 0 | | | |
| 2,4-Dimethylphenol | 12 | 5.0 | 20 | 0 | 60 | 34-79 | 0 | | | |
| 2,4-Dinitrophenol | 16.92 | 5.0 | 20 | 0 | 84.6 | 11-117 | 0 | | | |
| 2,4-Dinitrotoluene | 15.55 | 5.0 | 20 | 0 | 77.8 | 54-93 | 0 | | | |
| 2,6-Dinitrotoluene | 13.86 | 5.0 | 20 | 0 | 69.3 | 51-90 | 0 | | | |
| 2-Chloronaphthalene | 11.69 | 5.0 | 20 | 0 | 58.4 | 37-84 | 0 | | | |
| 2-Chlorophenol | 10.94 | 5.0 | 20 | 0 | 54.7 | 38-83 | 0 | | | |
| 2-Methylnaphthalene | 11.62 | 5.0 | 20 | 0 | 58.1 | 33-85 | 0 | | | |
| 2-Methylphenol | 11.13 | 5.0 | 20 | 0 | 55.6 | 29-76 | 0 | | | |
| 2-Nitroaniline | 13.77 | 5.0 | 20 | 0 | 68.8 | 45-94 | 0 | | | |
| 2-Nitrophenol | 11.88 | 5.0 | 20 | 0 | 59.4 | 41-84 | 0 | | | |
| 3&4-Methylphenol | 11.04 | 5.0 | 20 | 0 | 55.2 | 24-70 | 0 | | | |
| 3,3´-Dichlorobenzidine | 3.55 | 5.0 | 20 | 0 | 17.8 | 39-96 | 0 | | | JS |
| 3-Nitroaniline | 13.57 | 5.0 | 20 | 0 | 67.8 | 50-93 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 19.14 | 5.0 | 20 | 0 | 95.7 | 23-116 | 0 | | | |
| 4-Bromophenyl phenyl ether | 16.08 | 5.0 | 20 | 0 | 80.4 | 51-93 | 0 | | | |
| 4-Chloro-3-methylphenol | 13.43 | 5.0 | 20 | 0 | 67.2 | 41-86 | 0 | | | |
| 4-Chloroaniline | 11.91 | 5.0 | 20 | 0 | 59.6 | 44-92 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 14.22 | 5.0 | 20 | 0 | 71.1 | 49-89 | 0 | | | |
| 4-Nitroaniline | 14.61 | 5.0 | 20 | 0 | 73 | 47-98 | 0 | | | |
| 4-Nitrophenol | 9.89 | 5.0 | 20 | 0 | 49.4 | 10-43 | 0 | | | S |
| Acenaphthene | 13.43 | 5.0 | 20 | 0 | 67.2 | 42-85 | 0 | | | |
| Acenaphthylene | 11.95 | 5.0 | 20 | 0 | 59.8 | 42-88 | 0 | | | |
| Acetophenone | 11.33 | 1.0 | 20 | 0 | 56.6 | 39-91 | 0 | | | |
| Anthracene | 15.67 | 5.0 | 20 | 0 | 78.4 | 55-93 | 0 | | | |
| Atrazine | 17.69 | 1.0 | 20 | 0 | 88.4 | 52-100 | 0 | | | |
| Benzaldehyde | 19.06 | 1.0 | 20 | 0 | 95.3 | 42-110 | 0 | | | |
| Benzo(a)anthracene | 17.54 | 5.0 | 20 | 0 | 87.7 | 56-91 | 0 | | | |
| Benzo(a)pyrene | 17.69 | 5.0 | 20 | 0.21 | 87.4 | 55-96 | 0 | | | |
| Benzo(b)fluoranthene | 17.67 | 5.0 | 20 | 0.32 | 86.8 | 55-99 | 0 | | | |
| Benzo(g,h,i)perylene | 17.52 | 5.0 | 20 | 0.2 | 86.6 | 44-102 | 0 | | | |
| Benzo(k)fluoranthene | 16.79 | 5.0 | 20 | 0.17 | 83.1 | 57-96 | 0 | | | |
| Bis(2-chloroethoxy)methane | 11.36 | 5.0 | 20 | 0 | 56.8 | 39-88 | 0 | | | |
| Bis(2-chloroethyl)ether | 9.52 | 5.0 | 20 | 0 | 47.6 | 36-91 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 17.84 | 5.0 | 20 | 1.37 | 82.4 | 39-113 | 0 | | | |
| Butyl benzyl phthalate | 17.33 | 5.0 | 20 | 0.73 | 83 | 49-97 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Carbazole | 16.36 | 5.0 | 20 | 0 | 81.8 | 59-92 | 0 | |
| Chrysene | 15.84 | 5.0 | 20 | 0 | 79.2 | 55-92 | 0 | |
| Dibenzo(a,h)anthracene | 17.45 | 5.0 | 20 | 0.13 | 86.6 | 47-100 | 0 | |
| Dibenzofuran | 12.45 | 5.0 | 20 | 0 | 62.2 | 44-89 | 0 | |
| Diethyl phthalate | 15.03 | 5.0 | 20 | 0 | 75.2 | 54-95 | 0 | |
| Dimethyl phthalate | 13.61 | 5.0 | 20 | 0 | 68 | 51-92 | 0 | |
| Di-n-butyl phthalate | 17.21 | 5.0 | 20 | 0.64 | 82.8 | 57-98 | 0 | |
| Di-n-octyl phthalate | 20.06 | 5.0 | 20 | 0 | 100 | 36-117 | 0 | |
| Fluoranthene | 17.97 | 5.0 | 20 | 0.17 | 89 | 59-93 | 0 | |
| Fluorene | 13.19 | 5.0 | 20 | 0 | 66 | 47-91 | 0 | |
| Hexachlorobenzene | 16.6 | 5.0 | 20 | 0 | 83 | 53-89 | 0 | |
| Hexachlorobutadiene | 12.09 | 5.0 | 20 | 0 | 60.4 | 11-83 | 0 | |
| Hexachlorocyclopentadiene | 8.61 | 5.0 | 20 | 0 | 43 | 14-75 | 0 | |
| Hexachloroethane | 9.6 | 5.0 | 20 | 0 | 48 | 10-85 | 0 | |
| Indeno(1,2,3-cd)pyrene | 17.96 | 5.0 | 20 | 0.18 | 88.9 | 46-102 | 0 | |
| Isophorone | 11.66 | 5.0 | 20 | 0 | 58.3 | 42-90 | 0 | |
| Naphthalene | 15.7 | 5.0 | 20 | 4.28 | 57.1 | 26-78 | 0 | |
| Nitrobenzene | 11.49 | 5.0 | 20 | 0 | 57.4 | 38-86 | 0 | |
| N-Nitrosodi-n-propylamine | 10.7 | 5.0 | 20 | 0 | 53.5 | 39-95 | 0 | |
| N-Nitrosodiphenylamine | 14.54 | 5.0 | 20 | 0 | 72.7 | 47-94 | 0 | |
| Pentachlorophenol | 21.14 | 5.0 | 20 | 0 | 106 | 37-94 | 0 | S |
| Phenanthrene | 14.48 | 5.0 | 20 | 0 | 72.4 | 51-90 | 0 | |
| Phenol | 53.87 | 5.0 | 20 | 42.54 | 56.6 | 10-40 | 0 | S |
| Pyrene | 16.79 | 5.0 | 20 | 0.13 | 83.3 | 48-98 | 0 | |
| *Surr: 2,4,6-Tribromophenol* | *41.78* | 0 | *50* | 0 | *83.6* | *27-83* | 0 | S |
| *Surr: 2-Fluorobiphenyl* | *29.05* | 0 | *50* | 0 | *58.1* | *26-79* | 0 | |
| *Surr: 2-Fluorophenol* | *19.02* | 0 | *50* | 0 | *38* | *13-56* | 0 | |
| *Surr: 4-Terphenyl-d14* | *39.14* | 0 | *50* | 0 | *78.3* | *43-106* | 0 | |
| *Surr: Nitrobenzene-d5* | *30.12* | 0 | *50* | 0 | *60.2* | *29-80* | 0 | |
| *Surr: Phenol-d6* | *12.27* | 0 | *50* | 0 | *24.5* | *10-35* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**MS** Sample ID: **1809614-01A MS** Units: **µg/L** Analysis Date: **9/24/2018 11:16 PM**
Client ID: Run ID: **SVMS8_180924A** SeqNo: **5282626** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | 12.56 | 5.0 | 20 | 0 | 62.8 | 40-85 | 0 | | | |
| 1,2,4,5-Tetrachlorobenzene | 12.12 | 10 | 20 | 0 | 60.6 | 34-82 | 0 | | | |
| 2,2`-Oxybis(1-chloropropane) | 9.07 | 5.0 | 20 | 0 | 45.4 | 33-83 | 0 | | | |
| 2,3,4,6-Tetrachlorophenol | 16.75 | 5.0 | 20 | 0 | 83.8 | 43-104 | 0 | | | |
| 2,4,5-Trichlorophenol | 14.98 | 5.0 | 20 | 0 | 74.9 | 47-84 | 0 | | | |
| 2,4,6-Trichlorophenol | 13.61 | 5.0 | 20 | 0 | 68 | 45-83 | 0 | | | |
| 2,4-Dichlorophenol | 13.38 | 5.0 | 20 | 0 | 66.9 | 39-84 | 0 | | | |
| 2,4-Dimethylphenol | 12.33 | 5.0 | 20 | 0 | 61.6 | 34-79 | 0 | | | |
| 2,4-Dinitrophenol | 23.46 | 5.0 | 20 | 0 | 117 | 11-117 | 0 | | | S |
| 2,4-Dinitrotoluene | 16.69 | 5.0 | 20 | 0 | 83.4 | 54-93 | 0 | | | |
| 2,6-Dinitrotoluene | 15.09 | 5.0 | 20 | 0 | 75.4 | 51-90 | 0 | | | |
| 2-Chloronaphthalene | 12.27 | 5.0 | 20 | 0 | 61.4 | 37-84 | 0 | | | |
| 2-Chlorophenol | 12.11 | 5.0 | 20 | 0 | 60.6 | 38-83 | 0 | | | |
| 2-Methylnaphthalene | 12.36 | 5.0 | 20 | 0 | 61.8 | 33-85 | 0 | | | |
| 2-Methylphenol | 10.43 | 5.0 | 20 | 0 | 52.2 | 29-76 | 0 | | | |
| 2-Nitroaniline | 13.73 | 5.0 | 20 | 0 | 68.6 | 45-94 | 0 | | | |
| 2-Nitrophenol | 13.41 | 5.0 | 20 | 0 | 67 | 41-84 | 0 | | | |
| 3&4-Methylphenol | 10.19 | 5.0 | 20 | 0 | 51 | 24-70 | 0 | | | |
| 3,3'-Dichlorobenzidine | 2.98 | 5.0 | 20 | 0 | 14.9 | 39-96 | 0 | | | JS |
| 3-Nitroaniline | 15.52 | 5.0 | 20 | 0 | 77.6 | 50-93 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 22.86 | 5.0 | 20 | 0 | 114 | 23-116 | 0 | | | |
| 4-Bromophenyl phenyl ether | 15.35 | 5.0 | 20 | 0 | 76.8 | 51-93 | 0 | | | |
| 4-Chloro-3-methylphenol | 14.35 | 5.0 | 20 | 0 | 71.8 | 41-86 | 0 | | | |
| 4-Chloroaniline | 12.14 | 5.0 | 20 | 0 | 60.7 | 44-92 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 14.09 | 5.0 | 20 | 0 | 70.4 | 49-89 | 0 | | | |
| 4-Nitroaniline | 16.58 | 5.0 | 20 | 0 | 82.9 | 47-98 | 0 | | | |
| 4-Nitrophenol | 6.77 | 5.0 | 20 | 0 | 33.8 | 10-43 | 0 | | | |
| Acenaphthene | 12.9 | 5.0 | 20 | 0 | 64.5 | 42-85 | 0 | | | |
| Acenaphthylene | 12.9 | 5.0 | 20 | 0 | 64.5 | 42-88 | 0 | | | |
| Acetophenone | 11.78 | 1.0 | 20 | 0 | 58.9 | 39-91 | 0 | | | |
| Anthracene | 16.29 | 5.0 | 20 | 0 | 81.4 | 55-93 | 0 | | | |
| Atrazine | 15.8 | 1.0 | 20 | 0 | 79 | 52-100 | 0 | | | |
| Benzaldehyde | 16.58 | 1.0 | 20 | 0 | 82.9 | 42-110 | 0 | | | |
| Benzo(a)anthracene | 17.12 | 5.0 | 20 | 0.21 | 84.6 | 56-91 | 0 | | | |
| Benzo(a)pyrene | 17.58 | 5.0 | 20 | 0.21 | 86.8 | 55-96 | 0 | | | |
| Benzo(b)fluoranthene | 17.92 | 5.0 | 20 | 0.28 | 88.2 | 55-99 | 0 | | | |
| Benzo(g,h,i)perylene | 18.68 | 5.0 | 20 | 0.25 | 92.2 | 44-102 | 0 | | | |
| Benzo(k)fluoranthene | 18.01 | 5.0 | 20 | 0.25 | 88.8 | 57-96 | 0 | | | |
| Bis(2-chloroethoxy)methane | 11.59 | 5.0 | 20 | 0 | 58 | 39-88 | 0 | | | |
| Bis(2-chloroethyl)ether | 11.47 | 5.0 | 20 | 0 | 57.4 | 36-91 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 18.03 | 5.0 | 20 | 0 | 90.2 | 39-113 | 0 | | | |
| Butyl benzyl phthalate | 17.21 | 5.0 | 20 | 0 | 86 | 49-97 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Carbazole | 17.06 | 5.0 | 20 | 0 | 85.3 | 59-92 | 0 | |
| Chrysene | 16.66 | 5.0 | 20 | 0.13 | 82.6 | 55-92 | 0 | |
| Dibenzo(a,h)anthracene | 16.87 | 5.0 | 20 | 0.17 | 83.5 | 47-100 | 0 | |
| Dibenzofuran | 13.22 | 5.0 | 20 | 0 | 66.1 | 44-89 | 0 | |
| Diethyl phthalate | 16.26 | 5.0 | 20 | 0 | 81.3 | 54-95 | 0 | |
| Dimethyl phthalate | 14.64 | 5.0 | 20 | 0 | 73.2 | 51-92 | 0 | |
| Di-n-butyl phthalate | 17.24 | 5.0 | 20 | 0 | 86.2 | 57-98 | 0 | |
| Di-n-octyl phthalate | 21.69 | 5.0 | 20 | 0 | 108 | 36-117 | 0 | |
| Fluoranthene | 17.19 | 5.0 | 20 | 0.17 | 85.1 | 59-93 | 0 | |
| Fluorene | 14.44 | 5.0 | 20 | 0 | 72.2 | 47-91 | 0 | |
| Hexachlorobenzene | 14.76 | 5.0 | 20 | 0 | 73.8 | 53-89 | 0 | |
| Hexachlorobutadiene | 11.59 | 5.0 | 20 | 0 | 58 | 11-83 | 0 | |
| Hexachlorocyclopentadiene | 7.76 | 5.0 | 20 | 0 | 38.8 | 14-75 | 0 | |
| Hexachloroethane | 11.03 | 5.0 | 20 | 0 | 55.2 | 10-85 | 0 | |
| Indeno(1,2,3-cd)pyrene | 17.51 | 5.0 | 20 | 0.24 | 86.4 | 46-102 | 0 | |
| Isophorone | 11.18 | 5.0 | 20 | 0 | 55.9 | 42-90 | 0 | |
| Naphthalene | 16.85 | 5.0 | 20 | 4.48 | 61.8 | 26-78 | 0 | |
| Nitrobenzene | 10.92 | 5.0 | 20 | 0 | 54.6 | 38-86 | 0 | |
| N-Nitrosodi-n-propylamine | 11.13 | 5.0 | 20 | 0 | 55.6 | 39-95 | 0 | |
| N-Nitrosodiphenylamine | 15.17 | 5.0 | 20 | 0 | 75.8 | 47-94 | 0 | |
| Pentachlorophenol | 19.96 | 5.0 | 20 | 0 | 99.8 | 37-94 | 0 | S |
| Phenanthrene | 14.94 | 5.0 | 20 | 0 | 74.7 | 51-90 | 0 | |
| Phenol | 47.33 | 5.0 | 20 | 42.96 | 21.8 | 10-40 | 0 | |
| Pyrene | 17.25 | 5.0 | 20 | 0.16 | 85.4 | 48-98 | 0 | |
| *Surr: 2,4,6-Tribromophenol* | *40.77* | 0 | *50* | 0 | *81.5* | *27-83* | 0 | |
| *Surr: 2-Fluorobiphenyl* | *29.31* | 0 | *50* | 0 | *58.6* | *26-79* | 0 | |
| *Surr: 2-Fluorophenol* | *19.38* | 0 | *50* | 0 | *38.8* | *13-56* | 0 | |
| *Surr: 4-Terphenyl-d14* | *40.57* | 0 | *50* | 0 | *81.1* | *43-106* | 0 | |
| *Surr: Nitrobenzene-d5* | *29.25* | 0 | *50* | 0 | *58.5* | *29-80* | 0 | |
| *Surr: Phenol-d6* | *13.29* | 0 | *50* | 0 | *26.6* | *10-35* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**DUP** Sample ID: **1809614-02A DUP** Units: **µg/L** Analysis Date: **9/18/2018 11:11 PM**
Client ID: Run ID: **SVMS7_180918B** SeqNo: **5264896** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | ND | 6.8 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| 1,2,4,5-Tetrachlorobenzene | ND | 14 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 1,4-Dioxane | ND | 6.8 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| 2,2`-Oxybis(1-chloropropane) | ND | 6.8 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| 2,3,4,6-Tetrachlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4,5-Trichlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4,6-Trichlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4-Dichlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4-Dimethylphenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4-Dinitrophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4-Dinitrotoluene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,6-Dinitrotoluene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Chloronaphthalene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Chlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Methylnaphthalene | 0.1486 | 6.8 | 0 | 0 | 0 | 0-0 | 0.1081 | 0 | 30 | J |
| 2-Methylphenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Nitroaniline | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Nitrophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 3&4-Methylphenol | ND | 6.8 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| 3,3'-Dichlorobenzidine | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 3-Nitroaniline | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Bromophenyl phenyl ether | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Chloro-3-methylphenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Chloroaniline | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Chlorophenyl phenyl ether | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Nitroaniline | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Nitrophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Acenaphthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Acenaphthylene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Acetophenone | ND | 1.4 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Anthracene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Atrazine | ND | 1.4 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| Benzaldehyde | ND | 1.4 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| Benzo(a)anthracene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Benzo(a)pyrene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Benzo(b)fluoranthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Benzo(g,h,i)perylene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Benzo(k)fluoranthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Bis(2-chloroethyl)ether | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Bis(2-chloroisopropyl)ether | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bis(2-ethylhexyl)phthalate | 0.9595 | 6.8 | 0 | 0 | 0 | 0-0 | 0.7568 | 0 | 30 | J |
| Butyl benzyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Caprolactam | ND | 14 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| Carbazole | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Chrysene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dibenzo(a,h)anthracene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dibenzofuran | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Diethyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dimethyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Di-n-butyl phthalate | 0.5811 | 6.8 | 0 | 0 | 0 | 0-0 | 0.5135 | 0 | 30 | J |
| Di-n-octyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Fluoranthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Fluorene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorobenzene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorobutadiene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorocyclopentadiene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachloroethane | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Isophorone | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Naphthalene | 0.1351 | 6.8 | 0 | 0 | 0 | 0-0 | 0.2162 | 0 | 30 | J |
| Nitrobenzene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| N-Nitrosodiphenylamine | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Pentachlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Phenanthrene | 0.1351 | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | J |
| Phenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Pyrene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| *Surr: 2,4,6-Tribromophenol* | *44.82* | 0 | *67.57* | 0 | *66.3* | *27-83* | 42.88 | *4.44* | *40* | |
| *Surr: 2-Fluorobiphenyl* | *29.08* | 0 | *67.57* | 0 | *43* | *26-79* | 31.58 | *8.24* | *40* | |
| *Surr: 2-Fluorophenol* | *16.95* | 0 | *67.57* | 0 | *25.1* | *13-56* | 17.42 | *2.75* | *40* | |
| *Surr: 4-Terphenyl-d14* | *53.73* | 0 | *67.57* | 0 | *79.5* | *43-106* | 53.07 | *1.24* | *40* | |
| *Surr: Nitrobenzene-d5* | *30.64* | 0 | *67.57* | 0 | *45.3* | *29-80* | 31.92 | *4.1* | *40* | |
| *Surr: Phenol-d6* | *10.14* | 0 | *67.57* | 0 | *15* | *10-35* | 10.88 | *7.07* | *40* | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bis(2-ethylhexyl)phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Butyl benzyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Caprolactam | ND | 14 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| Carbazole | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Chrysene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dibenzo(a,h)anthracene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dibenzofuran | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Diethyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dimethyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Di-n-butyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Di-n-octyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Fluoranthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Fluorene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorobenzene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorobutadiene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorocyclopentadiene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachloroethane | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Isophorone | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Naphthalene | 0.2027 | 6.8 | 0 | 0 | 0 | 0-0 | 0.2432 | 0 | 30 | J |
| Nitrobenzene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| N-Nitrosodiphenylamine | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Pentachlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Phenanthrene | 0.1486 | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | J |
| Phenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Pyrene | 0.1351 | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | J |
| *Surr: 2,4,6-Tribromophenol* | *42.93* | 0 | *67.57* | 0 | *63.5* | *27-83* | 40.46 | *5.93* | *40* | |
| *Surr: 2-Fluorobiphenyl* | *30.74* | 0 | *67.57* | 0 | *45.5* | *26-79* | 31.32 | *1.87* | *40* | |
| *Surr: 2-Fluorophenol* | *17.97* | 0 | *67.57* | 0 | *26.6* | *13-56* | 18.45 | *2.6* | *40* | |
| *Surr: 4-Terphenyl-d14* | *56.76* | 0 | *67.57* | 0 | *84* | *43-106* | 47.2 | *18.4* | *40* | |
| *Surr: Nitrobenzene-d5* | *31.38* | 0 | *67.57* | 0 | *46.4* | *29-80* | 32.35 | *3.05* | *40* | |
| *Surr: Phenol-d6* | *11.81* | 0 | *67.57* | 0 | *17.5* | *10-35* | 12.55 | *6.1* | *40* | |

**The following samples were analyzed in this batch:** 1809940-01A 1809940-02A 1809940-03A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: _____

Lab Code: MI00028 Case No.: _____ SAS No.: _____ SDG No.: 1809940

| | EPA SAMPLE NO. | S1 (2FP) # | S2 (PHL) # | S3 (NBZ) # | S4 (FBP) # | S5 (TBP) # | S6 (TPH) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | SBLKW1-12457 | 43 | 28 | 62 | 59 | 71 | 85 | 0 |
| 02 | SLCSW1-12457 | 42 | 28 | 62 | 54 | 71 | 68 | 0 |
| 03 | XXXX-01 MS | 38 | 25 | 60 | 58 | 84 | 78 | 0 |
| 04 | XXXX-02 DUP | 25 | 15 | 45 | 43 | 66 | 80 | 0 |
| 05 | OTF-SW-01-09 | 1* | 1* | 1* | 1* | 1* | 1* | 6 |
| 06 | OTF-SW-02-09 | 1* | 1* | 2* | 2* | 3* | 1* | 6 |
| 07 | OTF-SW-03-09 | 1* | 1* | 2* | 2* | 3* | 2* | 6 |
| 08 | OTF-SW-01-09 | * | 1* | 1* | * | * | * | 6 |
| 09 | SBLKW1-12457 | 43 | 31 | 58 | 55 | 57 | 70 | 0 |
| 10 | SLCSW1-12457 | 43 | 31 | 59 | 55 | 67 | 61 | 0 |
| 11 | XXXX-01 MS | 39 | 27 | 59 | 59 | 82 | 81 | 0 |
| 12 | XXXX-02 DUP | 27 | 17 | 46 | 46 | 64 | 84 | 0 |

QC LIMITS

| | | | | |
|---|---|---|---|---|
| S1 | (2FP) | = | 2-Fluorophenol | (23-55) |
| S2 | (PHL) | = | Phenol-d6 | (10-35) |
| S3 | (NBZ) | = | Nitrobenzene-d5 | (32-89) |
| S4 | (FBP) | = | 2-Fluorobiphenyl | (34-98) |
| S5 | (TBP) | = | 2,4,6-Tribromophenol | (32-92) |
| S6 | (TPH) | = | 4-Terphenyl-d14 | (50-111) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

**SBLKW1-124572**

Lab Name: ALS Environmental Contract: _____

Lab Code: MI00028 Case No.: _____ SAS No.: _____ SDG No.: 1809940

Lab File ID: 09181822.D Lab Sample ID: SBLKW1-124572

Instrument ID: SVMS7 Date Extracted: _____

Matrix: (soil/water) WATER Date Analyzed: 9/18/2018

Level: (low/med) LOW Time Analyzed: 20:48

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | SLCSW1-124572 | SLCSW1-124572 | 09181823.D | 9/18/2018 |
| 02 | XXXX-01 MS | 1809614-01A MS | 09181827.D | 9/18/2018 |
| 03 | XXXX-02 DUP | 1809614-02A DUP | 09181829.D | 9/18/2018 |
| 04 | OTF-SW-01-091418 | 1809940-01B DF100 | 09181846.D | 9/19/2018 |
| 05 | OTF-SW-02-091518 | 1809940-02B DF50 | 09181847.D | 9/19/2018 |
| 06 | OTF-SW-03-091518 | 1809940-03B DF50 | 09181848.D | 9/19/2018 |
| 07 | OTF-SW-01-091418 | 1809940-01B DF500 | 09191805.D | 9/19/2018 |

COMMENTS:

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

**SBLKW1-124572**

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID: 09241810.D Lab Sample ID: SBLKW1-124572

Instrument ID: SVMS8 Date Extracted:

Matrix: (soil/water) WATER Date Analyzed: 9/24/2018

Level: (low/med) LOW Time Analyzed: 22:36

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | SLCSW1-124572 | SLCSW1-124572 | 09241811.D | 9/24/2018 |
| 02 | XXXX-01 MS | 1809614-01A MS | 09241812.D | 9/24/2018 |
| 03 | XXXX-02 DUP | 1809614-02A DUP | 09241814.D | 9/24/2018 |

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ALS Environmental Contract: _____

Lab Code: MI00028 Case No.: _____ SAS No.: _____ SDG No.: 1809940

Lab File ID: 09181818.D DFTPP Injection Date: 9/18/2018

Instrument ID: SVMS7 DFTPP Injection Time: 19:26

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 30.0 - 80.0% of mass 198 | 45.0 |
| 68 | Less than 2.0% of mass 69 | 1.0 ( 1.9)1 |
| 69 | Mass 69 Relative abundance | 52.5 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.6)1 |
| 127 | 25.0 - 75.0% of mass 198 | 51.7 |
| 197 | Less than 1.0% of mass 198 | 0.6 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 30.0% of mass 198 | 28.1 |
| 365 | Greater than 0.75% of mass 198 | 5.1 |
| 441 | Present, but less than mass 443 | 11.2 |
| 442 | 40.0 - 110.0% of mass 198 | 72.0 |
| 443 | 15.0 - 24.0% of mass 442 | 15.7 ( 21.8)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | SSTD01 | 20UG/ML BNA | 09181819.D | 9/18/2018 | 19:47 |
| 02 | SBLKW1-124572 | SBLKW1-124572 | 09181822.D | 9/18/2018 | 20:48 |
| 03 | SLCSW1-124572 | SLCSW1-124572 | 09181823.D | 9/18/2018 | 21:08 |
| 04 | XXXX-01 MS | 1809614-01A MS | 09181827.D | 9/18/2018 | 22:30 |
| 05 | XXXX-02 DUP | 1809614-02A DUP | 09181829.D | 9/18/2018 | 23:11 |
| 06 | OTF-SW-01-0914 | 1809940-01B DF100 | 09181846.D | 9/19/2018 | 5:07 |
| 07 | OTF-SW-02-0915 | 1809940-02B DF50 | 09181847.D | 9/19/2018 | 5:28 |
| 08 | OTF-SW-03-0915 | 1809940-03B DF50 | 09181848.D | 9/19/2018 | 5:49 |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID: 09191803.D DFTPP Injection Date: 9/19/2018

Instrument ID: SVMS7 DFTPP Injection Time: 11:49

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 30.0 - 80.0% of mass 198 | 39.8 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.5)1 |
| 69 | Mass 69 Relative abundance | 48.2 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5)1 |
| 127 | 25.0 - 75.0% of mass 198 | 49.3 |
| 197 | Less than 1.0% of mass 198 | 0.7 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 30.0% of mass 198 | 26.8 |
| 365 | Greater than 0.75% of mass 198 | 5.3 |
| 441 | Present, but less than mass 443 | 9.5 |
| 442 | 40.0 - 110.0% of mass 198 | 66.8 |
| 443 | 15.0 - 24.0% of mass 442 | 12.8 ( 19.2)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | SSTD02 | 20UG/ML BNA | 09191804.D | 9/19/2018 | 12:10 |
| 02 | OTF-SW-01-0914 | 1809940-01B DF500 | 09191805.D | 9/19/2018 | 12:30 |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ALS Environmental Contract: _____

Lab Code: MI00028 Case No.: _____ SAS No.: _____ SDG No.: 1809940

Lab File ID: 09241803.D DFTPP Injection Date: 9/24/2018

Instrument ID: SVMS8 DFTPP Injection Time: 20:23

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 30.0 - 80.0% of mass 198 | 17.1 |
| 68 | Less than 2.0% of mass 69 | 0.4 ( 1.6)1 |
| 69 | Mass 69 Relative abundance | 24.1 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.4)1 |
| 127 | 25.0 - 75.0% of mass 198 | 41.7 |
| 197 | Less than 1.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 30.0% of mass 198 | 27.1 |
| 365 | Greater than 0.75% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 14.0 |
| 442 | 40.0 - 110.0% of mass 198 | 99.6 |
| 443 | 15.0 - 24.0% of mass 442 | 20.6 ( 20.7)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | SSTD03 | 20 UG/ML BNA | 09241805.D | 9/24/2018 | 20:55 |
| 02 | SBLKW1-124572 | SBLKW1-124572 | 09241810.D | 9/24/2018 | 22:36 |
| 03 | SLCSW1-124572 | SLCSW1-124572 | 09241811.D | 9/24/2018 | 22:56 |
| 04 | XXXX-01 MS | 1809614-01A MS | 09241812.D | 9/24/2018 | 23:16 |
| 05 | XXXX-02 DUP | 1809614-02A DUP | 09241814.D | 9/24/2018 | 23:56 |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID (Standard): 09181819.D Date Analyzed: 9/18/2018

Instrument ID: SVMS7 Time Analyzed: 19:47

| | | IS1(DCB) AREA # | RT # | IS2(NPT) AREA # | RT # | IS3(ACE) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 502142 | 3.35 | 1276734 | 4.07 | 894964 | 5.15 |
| | UPPER LIMIT | 1004284 | 3.85 | 2553468 | 4.57 | 1789928 | 5.65 |
| | LOWER LIMIT | 251071 | 2.85 | 638367 | 3.57 | 447482 | 4.65 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SBLKW1-1245 | 449718 | 3.34 | 1043964 | 4.07 | 636174 | 5.15 |
| 02 | SLCSW1-124 | 447172 | 3.34 | 1035791 | 4.07 | 649206 | 5.15 |
| 03 | XXXX-01 MS | 449893 | 3.35 | 1042151 | 4.07 | 647791 | 5.15 |
| 04 | XXXX-02 DUP | 462175 | 3.34 | 1098776 | 4.07 | 682193 | 5.15 |
| 05 | OTF-SW-01-0 | 438235 | 3.35 | 1057312 | 4.07 | 649256 | 5.15 |
| 06 | OTF-SW-02-0 | 342561 | 3.34 | 814739 | 4.07 | 518060 | 5.15 |
| 07 | OTF-SW-03-0 | 370708 | 3.35 | 886923 | 4.07 | 556269 | 5.15 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ACE) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID (Standard): 09181819.D Date Analyzed: 9/18/2018

Instrument ID: SVMS7 Time Analyzed: 19:47

| | | IS4(PHN) AREA # | RT # | IS5(CRY) AREA # | RT # | IS6(PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1864077 | 6.14 | 1737884 | 8.68 | 1437504 | 11.21 |
| | UPPER LIMIT | 3728154 | 5.64 | 3475768 | 8.18 | 2875008 | 10.71 |
| | LOWER LIMIT | 932039 | 6.64 | 868942 | 9.18 | 718752 | 11.71 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SBLKW1-1245 | 1199227 | 6.14 | 1101687 | 8.68 | 1157267 | 11.21 |
| 02 | SLCSW1-124 | 1202325 | 6.14 | 1252536 | 8.68 | 1314392 | 11.21 |
| 03 | XXXX-01 MS | 1226263 | 6.14 | 1367736 | 8.69 | 1435460 | 11.21 |
| 04 | XXXX-02 DUP | 1294506 | 6.14 | 1262243 | 8.69 | 1377933 | 11.21 |
| 05 | OTF-SW-01-0 | 1199046 | 6.14 | 1190264 | 8.69 | 1209649 | 11.22 |
| 06 | OTF-SW-02-0 | 1004182 | 6.14 | 1127032 | 8.70 | 1151264 | 11.22 |
| 07 | OTF-SW-03-0 | 1075712 | 6.14 | 1193887 | 8.68 | 1211200 | 11.21 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ACE) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID (Standard): 09191804.D Date Analyzed: 9/19/2018

Instrument ID: SVMS7 Time Analyzed: 12:10

| | IS1(DCB) AREA # | RT # | IS2(NPT) AREA # | RT # | IS3(ACE) AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 586741 | 3.34 | 1426650 | 4.07 | 1001848 | 5.15 |
| UPPER LIMIT | 1173482 | 3.84 | 2853300 | 4.57 | 2003696 | 5.65 |
| LOWER LIMIT | 293371 | 2.84 | 713325 | 3.57 | 500924 | 4.65 |
| EPA SAMPLE NO. | | | | | | |
| 01 OTF-SW-01-0 | 452764 | 3.34 | 1118253 | 4.07 | 760708 | 5.15 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ACE) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID (Standard): 09191804.D Date Analyzed: 9/19/2018

Instrument ID: SVMS7 Time Analyzed: 12:10

| | IS4(PHN) AREA # | RT # | IS5(CRY) AREA # | RT # | IS6(PRY) AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 2061101 | 6.15 | 1760425 | 8.70 | 1646542 | 11.23 |
| UPPER LIMIT | 4122202 | 5.65 | 3520850 | 8.20 | 3293084 | 10.73 |
| LOWER LIMIT | 1030551 | 6.65 | 880213 | 9.20 | 823271 | 11.73 |
| EPA SAMPLE NO. | | | | | | |
| 01 OTF-SW-01-0 | 1529253 | 6.15 | 1432432 | 8.70 | 1321361 | 11.22 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ACE) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID (Standard): 09241805.D Date Analyzed: 9/24/2018

Instrument ID: SVMS8 Time Analyzed: 20:55

| | | IS1(DCB) AREA # | RT # | IS2(NPT) AREA # | RT # | IS3(ACE) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 460938 | 3.33 | 1229213 | 4.08 | 757925 | 5.17 |
| | UPPER LIMIT | 921876 | 3.83 | 2458426 | 4.58 | 1515850 | 5.67 |
| | LOWER LIMIT | 230469 | 2.83 | 614607 | 3.58 | 378963 | 4.67 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SBLKW1-1245 | 232701 | 3.33 | 617085 | 4.08 | 420726 | 5.17 |
| 02 | SLCSW1-124 | 467229 | 3.33 | 1162374 | 4.08 | 741825 | 5.17 |
| 03 | XXXX-01 MS | 485727 | 3.33 | 1193411 | 4.08 | 737974 | 5.17 |
| 04 | XXXX-02 DUP | 474212 | 3.33 | 1162126 | 4.08 | 687548 | 5.17 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ACE) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Environmental Contract:

Lab Code: MI00028 Case No.: SAS No.: SDG No.: 1809940

Lab File ID (Standard): 09241805.D Date Analyzed: 9/24/2018

Instrument ID: SVMS8 Time Analyzed: 20:55

| | | IS4(PHN) AREA # | RT # | IS5(CRY) AREA # | RT # | IS6(PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1385549 | 6.15 | 1297826 | 8.74 | 1150024 | 11.32 |
| | UPPER LIMIT | 2771098 | 5.65 | 2595652 | 8.24 | 2300048 | 10.82 |
| | LOWER LIMIT | 692775 | 6.65 | 648913 | 9.24 | 575012 | 11.82 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SBLKW1-1245 | 895780 | 6.15 | 1164603 | 8.73 | 1259175 | 11.32 |
| 02 | SLCSW1-124 | 1459294 | 6.15 | 1788757 | 8.74 | 1752242 | 11.32 |
| 03 | XXXX-01 MS | 1415343 | 6.15 | 1428375 | 8.73 | 1158238 | 11.32 |
| 04 | XXXX-02 DUP | 1207303 | 6.15 | 989922 | 8.73 | 867378 | 11.31 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ACE) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181846.D
Acq On : 19 Sep 2018 5:07 am
Operator : EB
Sample : 1809940-01B DF100
Misc : 100X 18BAW-124572
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Sep 19 08:13:26 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.349 | 150 | 438235 | 40.00 ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1057312 | 40.00 ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 649256 | 40.00 ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.143 | 188 | 1199046 | 40.00 ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.689 | 240 | 1190264 | 40.00 ug/ml | 0.00 |
| 92) Perylene-d12 | 11.219 | 264 | 1209649 | 40.00 ug/ml | 0.00 |
| System Monitoring Compounds | | | | | |
| 5) 2-Fluorophenol | 2.702 | 112 | 1843 | 0.34 ug/ml | 0.01 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 0.68%# | | |
| 7) Phenol-d6 | 3.131 | 99 | 3589m | 0.55 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 1.10%# | | |
| 23) Nitrobenzene-d5 | 3.654 | 82 | 6810 | 0.69 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 1.38%# | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 11954 | 0.56 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 1.12%# | | |
| 73) 2,4,6-Tribromophenol | 5.672 | 330 | 1542 | 0.71 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 1.42%# | | |
| 86) 4-Terphenyl-d14 | 7.401 | 244 | 11931 | 0.53 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 1.06%# | | |
| Target Compounds | | | | | Qvalue |
| 2) Pyridine | 2.196 | 79 | 11393 | 1.29 ug/ml | 93 |
| 3) 1,4-Dioxane | 2.043 | 88 | 8247 | 1.36 ug/ml# | 92 |
| 8) Phenol | 3.137 | 94 | 110672 | 9.67 ug/ml | 93 |
| 9) Aniline | 3.172 | 93 | 163487 | 12.11 ug/ml | 93 |
| 12) 1,3-Dichlorobenzene | 3.331 | 146 | 36 | 0.04 ug/ml# | 1 |
| 13) 1,4-Dichlorobenzene | 3.331 | 146 | 36 | Below Cal # | 1 |
| 14) Benzyl alcohol | 3.413 | 108 | 3167 | 0.91 ug/ml# | 63 |
| 16) 2-Methylphenol | 3.460 | 107 | 40978 | 6.07 ug/ml | 90 |
| 18) 3&4-Methylphenol | 3.549 | 107 | 50516 | 5.65 ug/ml# | 61 |
| 19) Acetophenone | 3.560 | 105 | 19039 | 1.42 ug/ml# | 26 |
| 27) 2,4-Dimethylphenol | 3.854 | 107 | 16271 | 1.82 ug/ml | 91 |
| 29) Benzoic acid | 3.978 | 122 | 2356829 | 210.44 ug/ml | 93 |
| 33) Naphthalene | 4.084 | 128 | 7774 | 0.25 ug/ml# | 1 |
| 37) Caprolactam | 4.354 | 55 | 320535 | 77.47 ug/ml | 90 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 1524 | 0.11 ug/ml# | 61 |
| 40) 1-Methylnaphthalene | 4.566 | 142 | 1946 | 0.10 ug/ml# | 15 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 1185 | 0.05 ug/ml# | 46 |
| 53) 2-Chloronaphthalene | 4.813 | 162 | 1875 | 0.10 ug/ml | 99 |
| 55) Dimethylphthalate | 4.966 | 163 | 525 | 0.02 ug/ml# | 1 |
| 59) Acenaphthene | 5.190 | 154 | 543 | 0.03 ug/ml# | 1 |
| 61) Dibenzofuran | 5.290 | 168 | 305 | 0.01 ug/ml# | 1 |
| 64) Diethylphthalate | 5.413 | 149 | 1118 | 0.05 ug/ml | 89 |
| 65) Fluorene | 5.507 | 166 | 388 | 0.02 ug/ml# | 29 |
| 66) 4-Chlorophenyl phenyl ... | 5.478 | 204 | 81 | Below Cal # | 1 |
| 74) 4-Bromophenyl phenyl e... | 5.801 | 248 | 47 | 0.00 ug/ml# | 3 |
| 75) Hexachlorobenzene | 5.901 | 284 | 51 | Below Cal # | 1 |
| 77) Phenanthrene | 6.160 | 178 | 1126 | 0.03 ug/ml# | 78 |
| 78) Anthracene | 6.195 | 178 | 307 | 0.04 ug/ml# | 1 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181846.D
Acq On : 19 Sep 2018 5:07 am
Operator : EB
Sample : 1809940-01B DF100
Misc : 100X 18BAW-124572
ALS Vial : 47 Sample Multiplier: 1

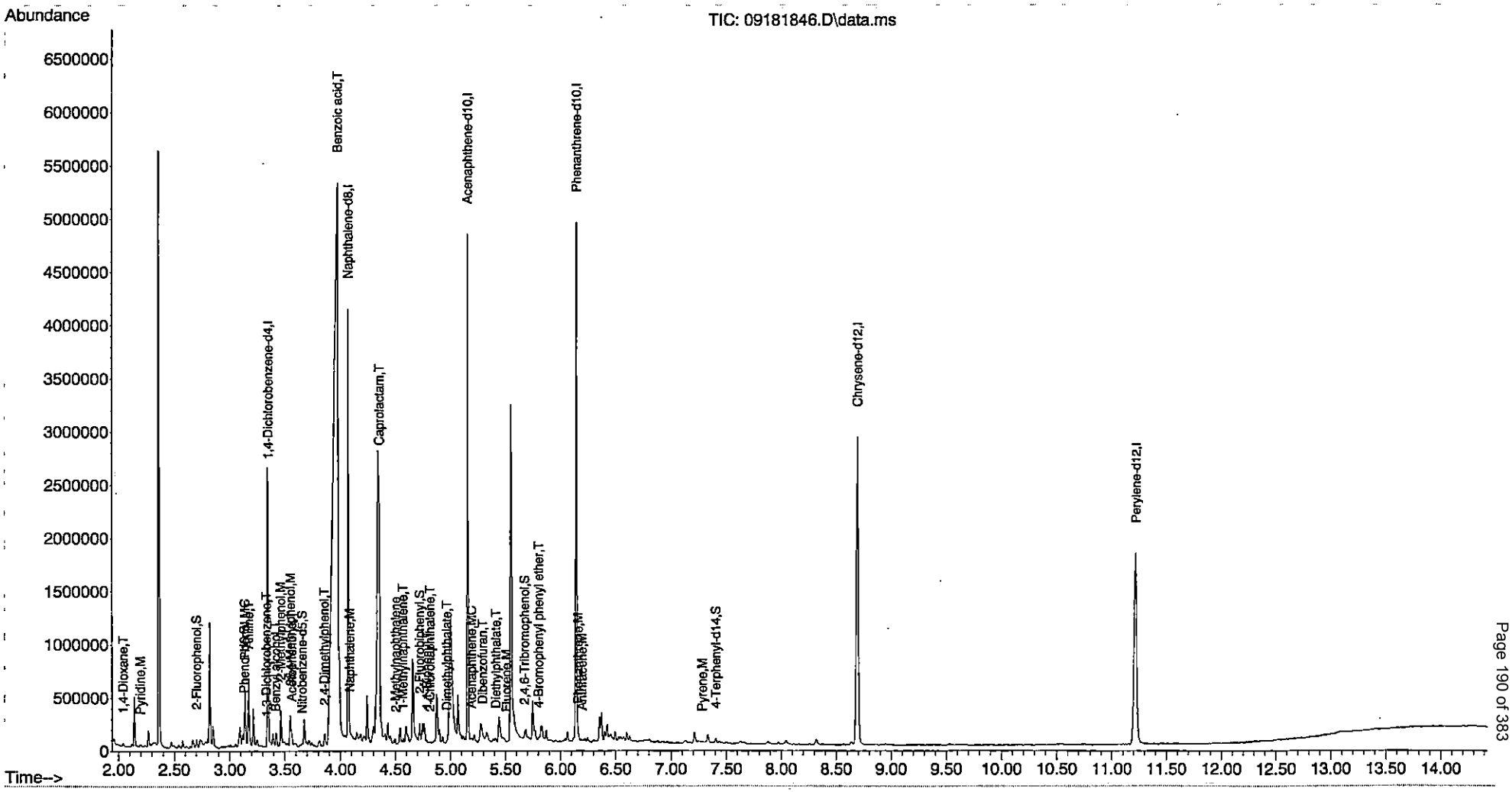
Quant Time: Sep 19 08:13:26 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

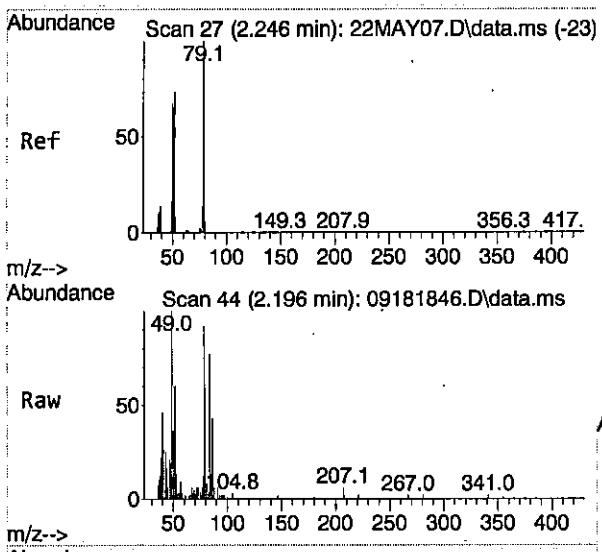
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 85) Pyrene | 7.278 | 202 | 983 | 0.03 | ug/ml# | 26 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181846.D
Acq On : 19 Sep 2018 5:07 am
Operator : EB
Sample : 1809940-01B DF100
Misc : 100X 18BAW-124572
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Sep 19 08:13:26 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

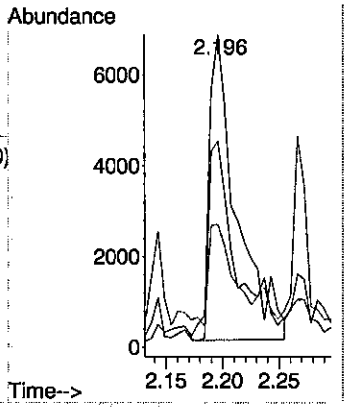


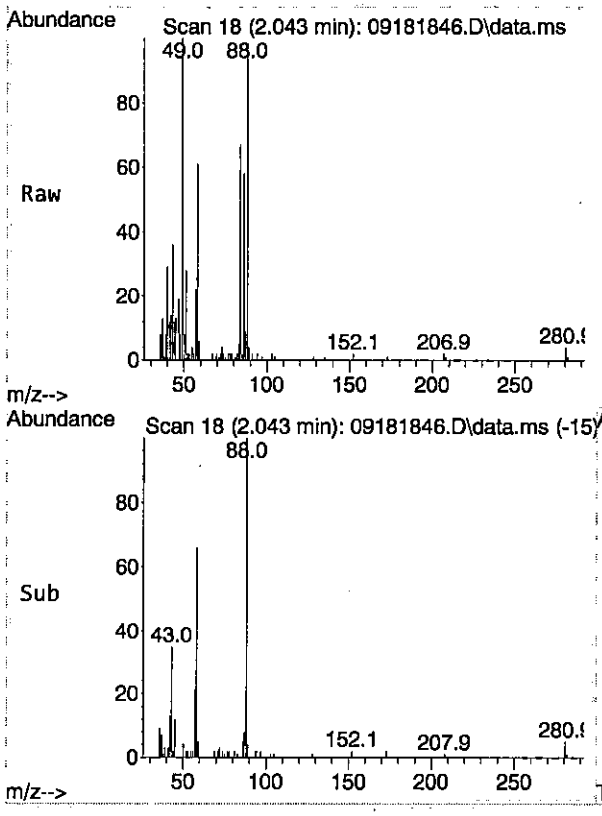



#2
Pyridine
Concen: 1.29 ug/ml
RT: 2.196 min Scan# 44
Delta R.T. 0.018 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion: 79 Resp: 11393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 63.9 | 38.3 | 98.3 |
| 50 | 36.2 | 0.6 | 60.6 |

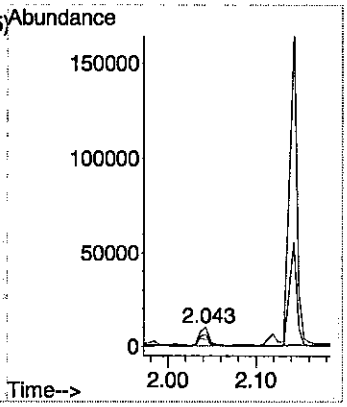


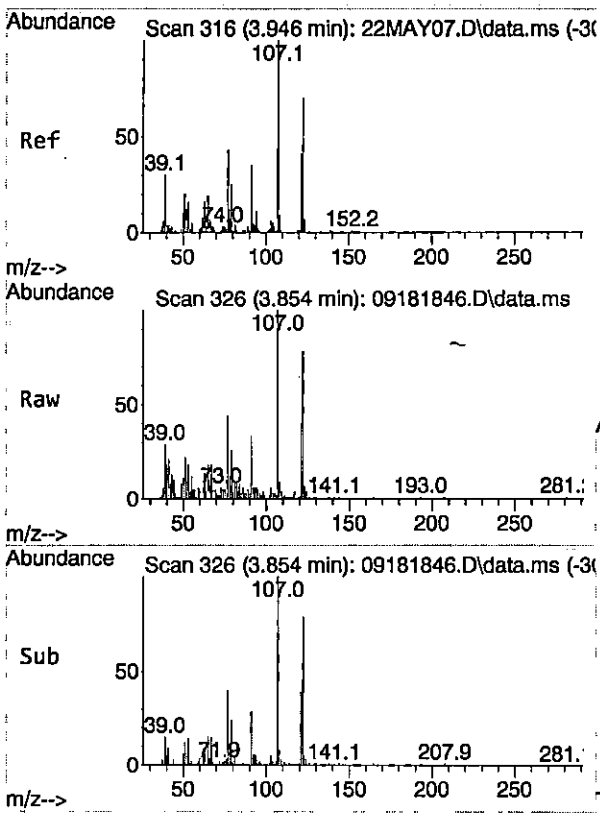




#3
1,4-Dioxane
Concen: 1.36 ug/ml
RT: 2.043 min Scan# 18
Delta R.T. -0.000 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion: 88 Resp: 8247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 67.6 | 49.3 | 91.6 |
| 43 | 42.0 | 22.1 | 41.1# |

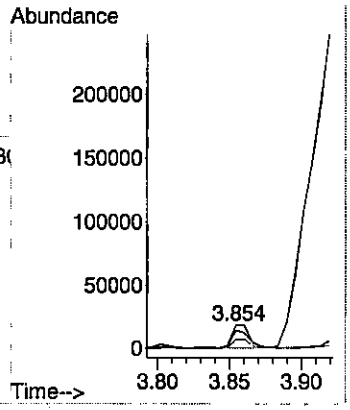


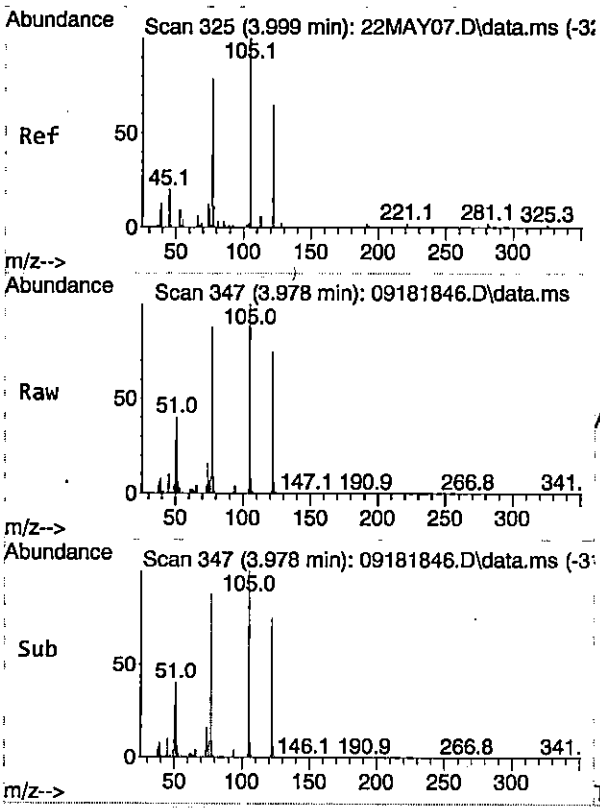



#27
2,4-Dimethylphenol
Concen: 1.82 ug/ml
RT: 3.854 min Scan# 326
Delta R.T. 0.006 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:107 Resp: 16271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 122 | 72.9 | 52.0 | 112.0 |
| 121 | 42.2 | 16.6 | 76.6 |

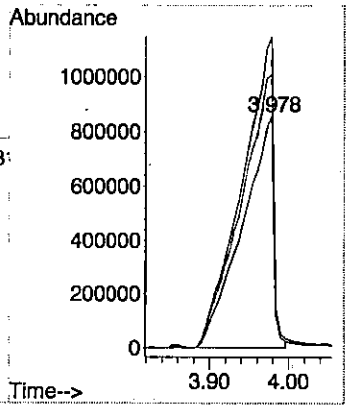


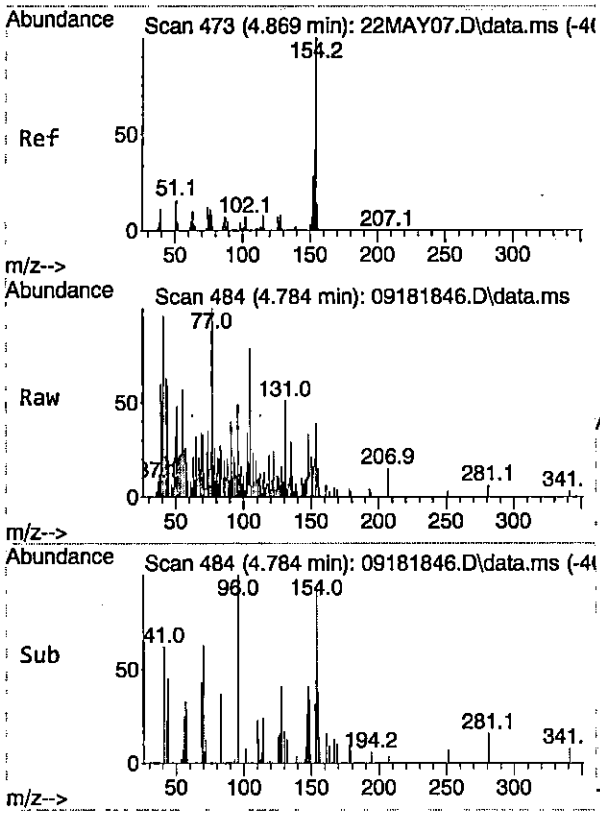




#29
Benzoic acid
Concen: 210.44 ug/ml
RT: 3.978 min Scan# 347
Delta R.T. 0.083 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:122 Resp: 2356829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 135.0 | 102.8 | 162.8 |
| 77 | 121.6 | 76.6 | 136.6 |

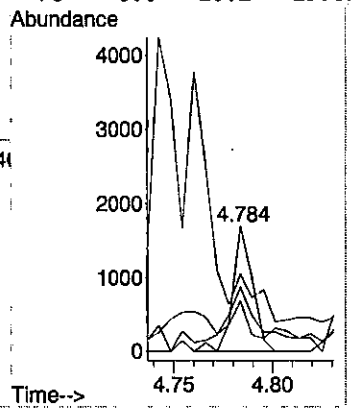


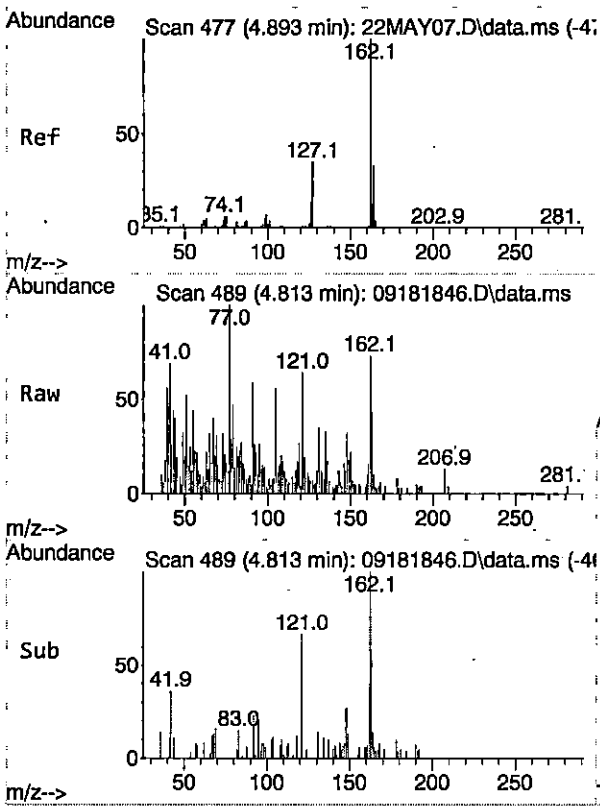



#41
1,1-Biphenyl
Concen: 0.05 ug/ml
RT: 4.784 min Scan# 484
Delta R.T. -0.000 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:154 Resp: 1185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 98.5 | 28.1 | 52.3# |
| 152 | 29.5 | 18.9 | 35.1 |
| 76 | 0.0 | 10.2 | 19.0# |

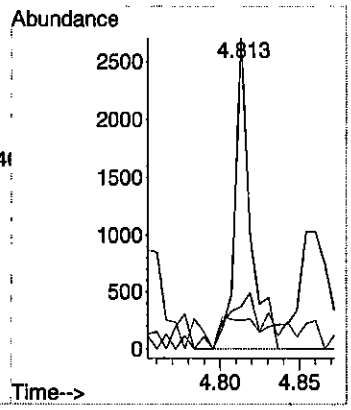


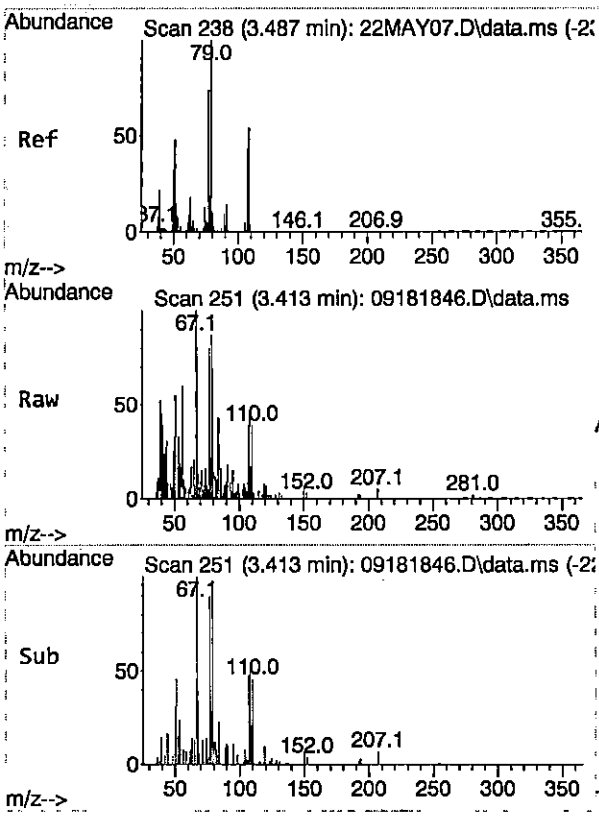




#53
2-Chloronaphthalene
Concen: 0.10 ug/ml
RT: 4.813 min Scan# 489
Delta R.T. 0.012 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:162 Resp: 1875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 33.2 | 3.7 | 63.7 |
| 127 | 46.1 | 17.2 | 77.2 |

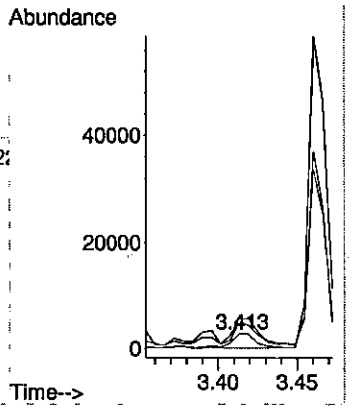


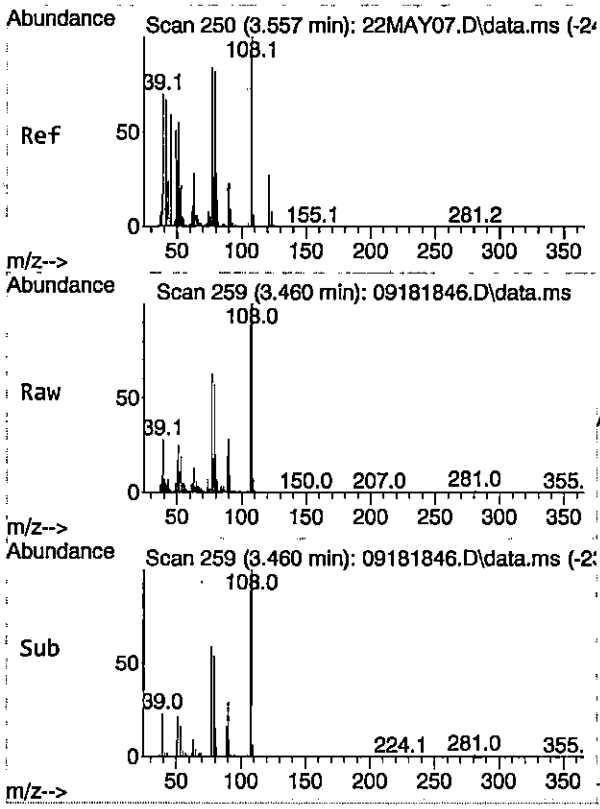



#14
Benzyl alcohol
Concen: 0.91 ug/ml
RT: 3.413 min Scan# 251
Delta R.T. 0.006 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:108 Resp: 3167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 77 | 153.8 | 66.4 | 126.4# |
| 79 | 180.7 | 121.5 | 181.5 |

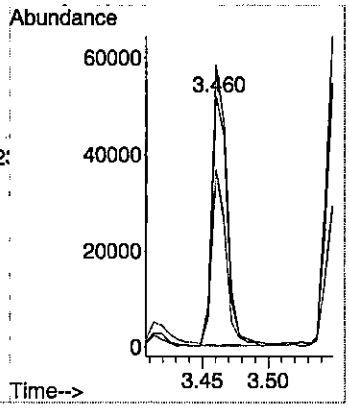


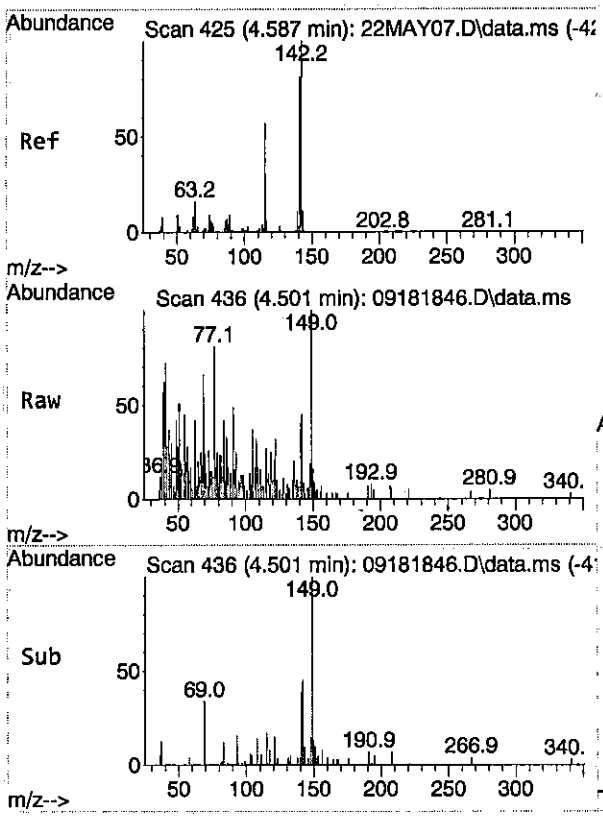




#16
2-Methylphenol
Concen: 6.07 ug/ml
RT: 3.460 min Scan# 259
Delta R.T. 0.000 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:107 Resp: 40978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 112.6 | 83.3 | 143.3 |
| 77 | 64.3 | 54.7 | 114.7 |

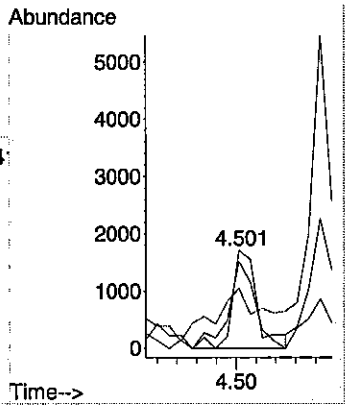


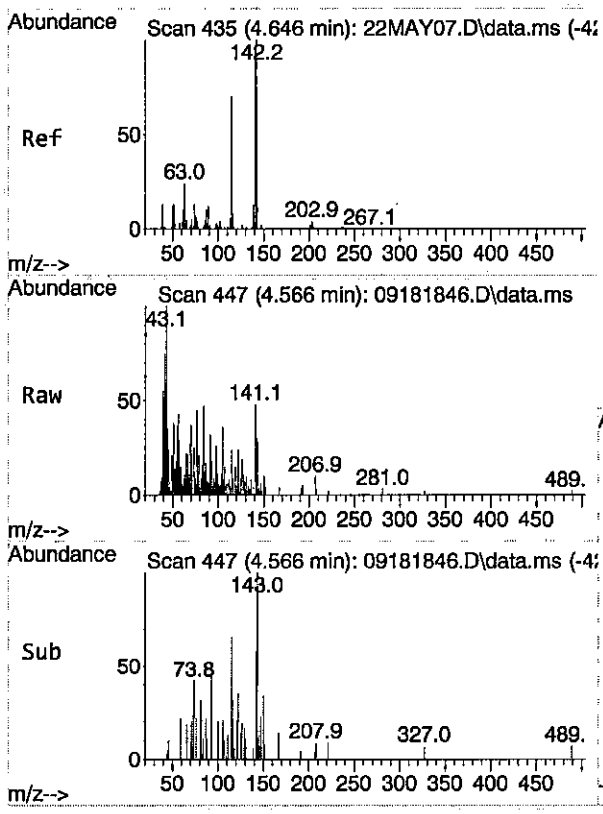



#39
2-Methylnaphthalene
Concen: 0.11 ug/ml
RT: 4.501 min Scan# 436
Delta R.T. 0.000 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:142 Resp: 1524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.8 | 58.2 | 108.2 |
| 115 | 98.4 | 28.5 | 52.9# |

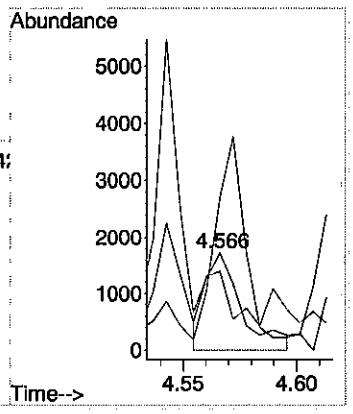


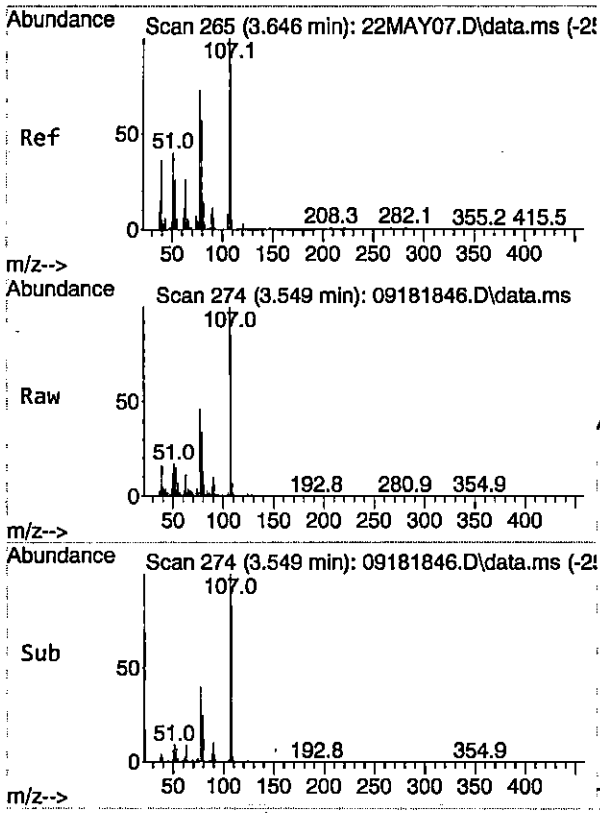




#40
1-Methylnaphthalene
Concen: 0.10 ug/ml
RT: 4.566 min Scan# 447
Delta R.T. 0.006 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:142 Resp: 1946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 174.7 | 57.3 | 117.3# |
| 115 | 0.0 | 12.5 | 72.5# |

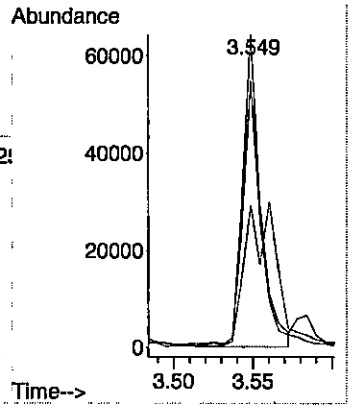


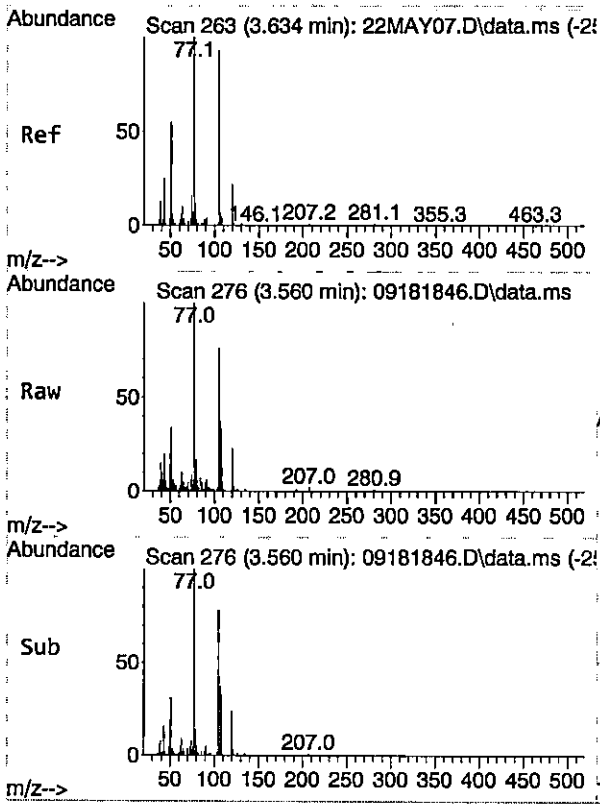



#18
3&4-Methylphenol
Concen: 5.65 ug/ml
RT: 3.549 min Scan# 274
Delta R.T. 0.006 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:107 Resp: 50516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.1 | 61.0 | 121.0 |
| 77 | 81.5 | 131.5 | 191.5# |

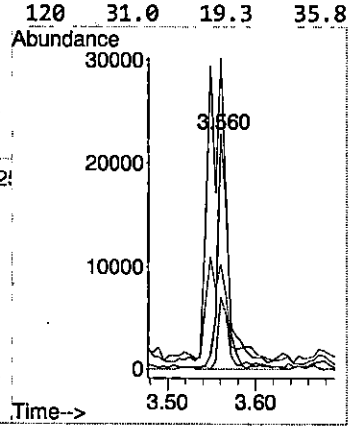


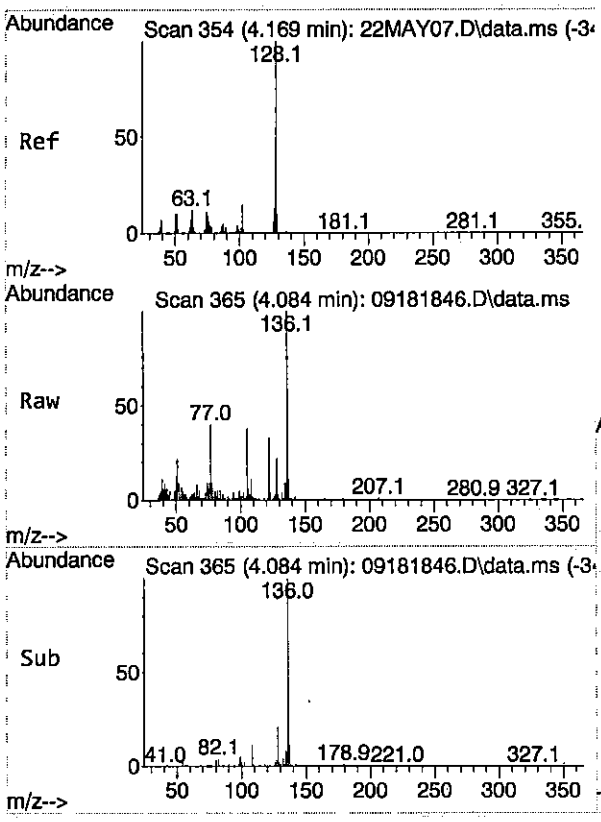




#19
Acetophenone
Concen: 1.42 ug/ml
RT: 3.560 min Scan# 276
Delta R.T. 0.000 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:105 Resp: 19039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 216.6 | 80.6 | 149.8# |
| 51 | 86.9 | 30.8 | 57.2# |
| 120 | 31.0 | 19.3 | 35.8 |

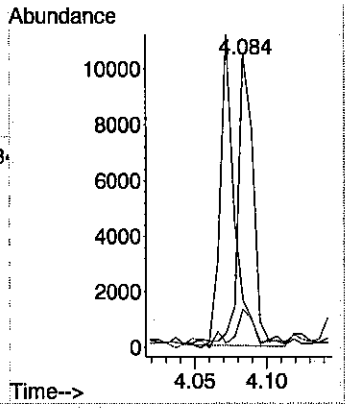


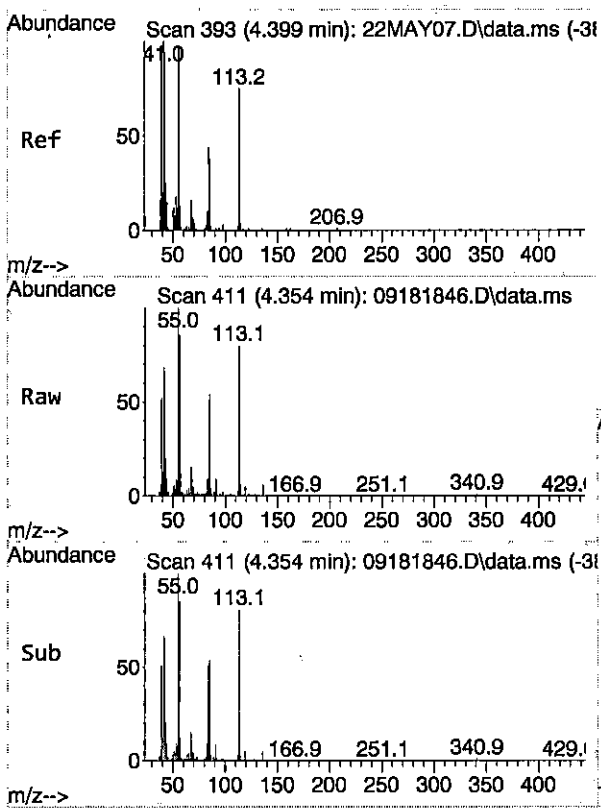



#33
Naphthalene
Concen: 0.25 ug/ml
RT: 4.084 min Scan# 365
Delta R.T. -0.000 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion:128 Resp: 7774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 102 | 102.4 | 0.0 | 42.0# |
| 127 | 17.8 | 0.0 | 43.1 |

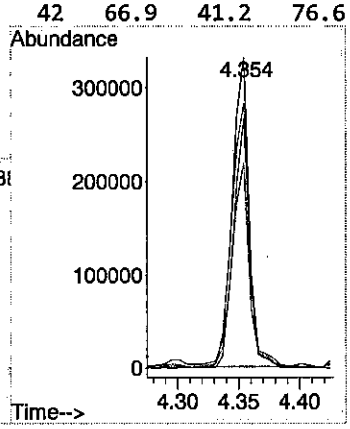


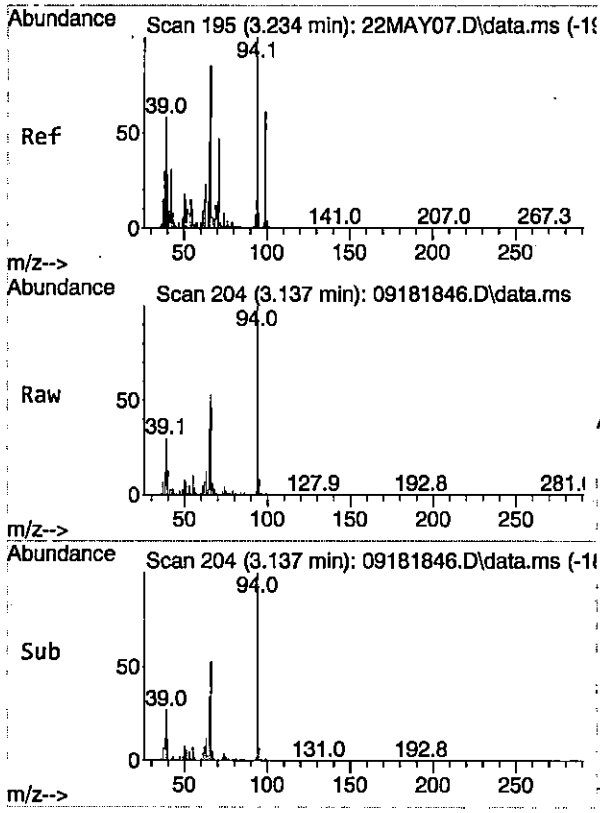




#37
Caprolactam
Concen: 77.47 ug/ml
RT: 4.354 min Scan# 411
Delta R.T. 0.029 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion: 55 Resp: 320535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 113 | 76.9 | 47.9 | 89.1 |
| 56 | 87.7 | 56.1 | 104.3 |
| 42 | 66.9 | 41.2 | 76.6 |

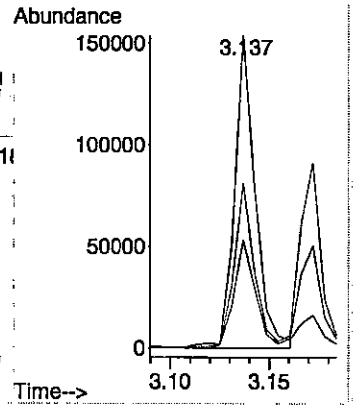


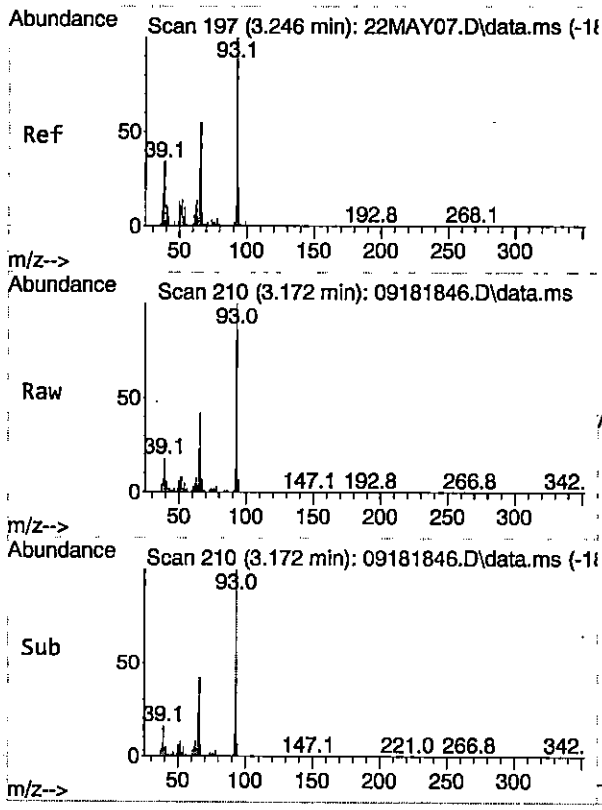



#8
Phenol
Concen: 9.67 ug/ml
RT: 3.137 min Scan# 204
Delta R.T. 0.006 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion: 94 Resp: 110672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 38.9 | 2.8 | 62.8 |
| 66 | 52.2 | 18.7 | 78.7 |

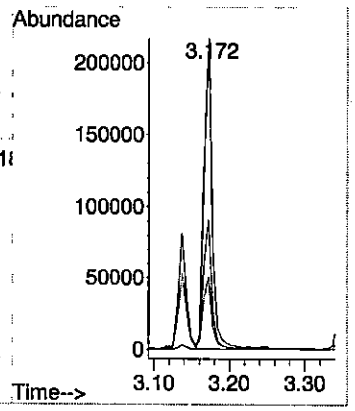



#9
Aniline
Concen: 12.11 ug/ml
RT: 3.172 min Scan# 210
Delta R.T. 0.000 min
Lab File: 09181846.D
Acq: 19 Sep 2018 5:07 am

Tgt Ion: 93 Resp: 163487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 43.5 | 9.2 | 69.2 |
| 65 | 25.4 | 0.0 | 52.6 |



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191805.D
Acq On : 19 Sep 2018 12:30 pm
Operator : EB
Sample : 1809940-01B DF500
Misc : 500X 18BAW-124572
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 19 13:12:13 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

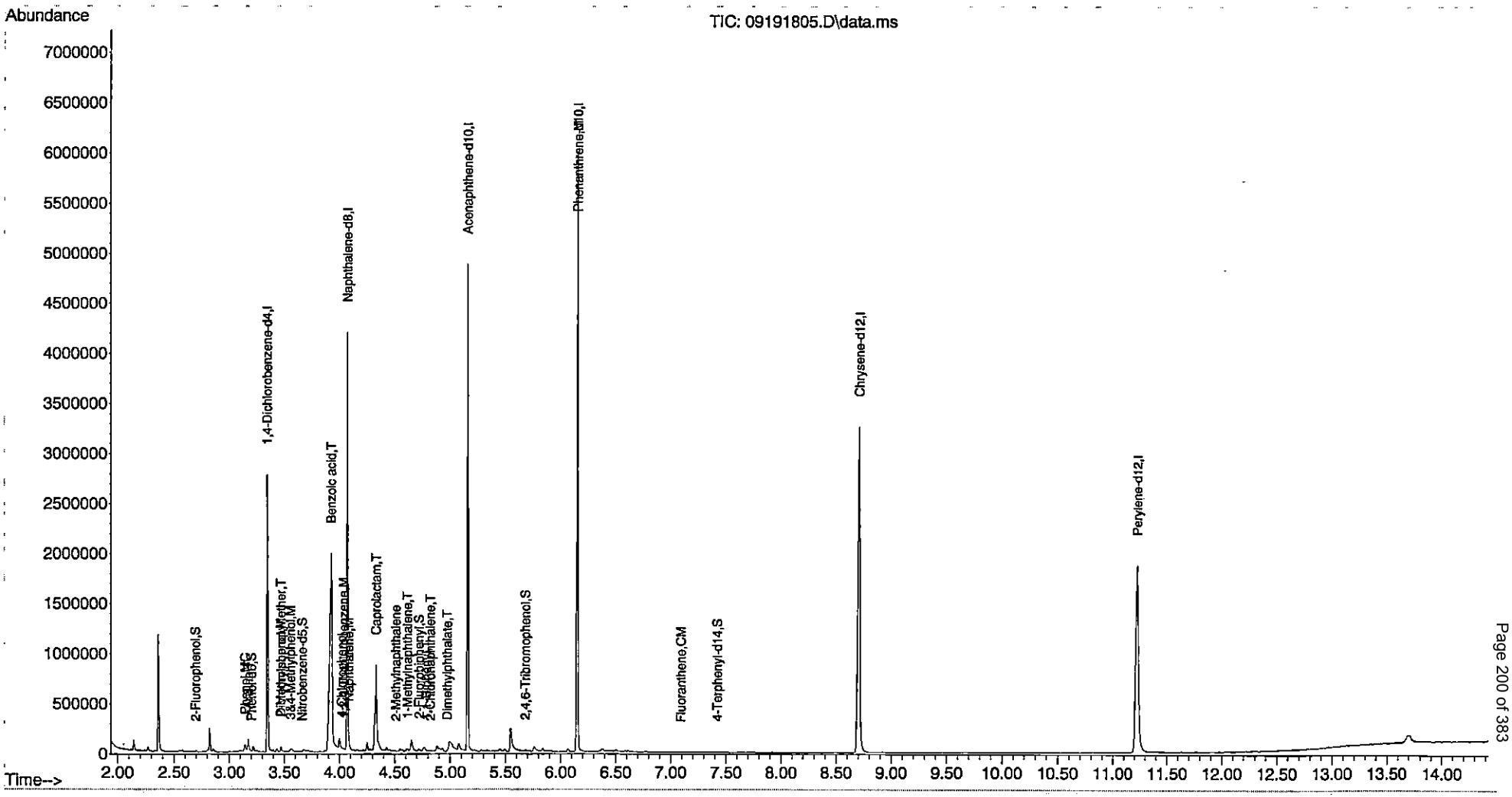
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 452764 | 40.00 | ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1118253 | 40.00 | ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 760708 | 40.00 | ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.148 | 188 | 1529253 | 40.00 | ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.701 | 240 | 1432432 | 40.00 | ug/ml | 0.01 |
| 92) Perylene-d12 | 11.224 | 264 | 1321361 | 40.00 | ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.696 | 112 | 213 | 0.14 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 0.28%# | | | |
| 7) Phenol-d6 | 3.201 | 99 | 409 | 0.26 | ug/ml | 0.08 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 0.52%# | | | |
| 23) Nitrobenzene-d5 | 3.660 | 82 | 1794 | 0.25 | ug/ml | 0.01 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 0.50%# | | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 2882 | 0.11 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 0.22%# | | | |
| 73) 2,4,6-Tribromophenol | 5.678 | 330 | 403 | 0.20 | ug/ml | 0.01 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 0.40%# | | | |
| 86) 4-Terphenyl-d14 | 7.419 | 244 | 2877 | 0.15 | ug/ml | 0.02 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 0.30%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) Phenol | 3.143 | 94 | 20682m | 1.87 | ug/ml | |
| 9) Aniline | 3.172 | 93 | 34083 | 2.66 | ug/ml | 92 |
| 16) 2-Methylphenol | 3.466 | 107 | 7459 | 1.07 | ug/ml | 82 |
| 17) Dichloroisopropyl ether | 3.466 | 45 | 209 | 0.05 | ug/ml# | 1 |
| 18) 3&4-Methylphenol | 3.554 | 107 | 10585 | 1.14 | ug/ml# | 60 |
| 29) Benzoic acid | 3.925 | 122 | 526673 | 79.39 | ug/ml | 93 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 253 | 0.02 | ug/ml# | 32 |
| 32) 4-Chlorophenol | 4.019 | 128 | 208 | 0.02 | ug/ml# | 1 |
| 33) Naphthalene | 4.084 | 128 | 1760 | 0.03 | ug/ml# | 1 |
| 37) Caprolactam | 4.331 | 55 | 78292 | 21.66 | ug/ml | 90 |
| 39) 2-Methylnaphthalene | 4.507 | 142 | 424 | 0.05 | ug/ml# | 75 |
| 40) 1-Methylnaphthalene | 4.613 | 142 | 479 | 0.02 | ug/ml | 88 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 299 | 0.01 | ug/ml# | 1 |
| 53) 2-Chloronaphthalene | 4.819 | 162 | 387 | 0.02 | ug/ml# | 42 |
| 55) Dimethylphthalate | 4.972 | 163 | 290 | 0.01 | ug/ml# | 1 |
| 77) Phenanthrene | 6.148 | 178 | 1078 | 0.03 | ug/ml# | 1 |
| 81) Fluoranthene | 7.089 | 202 | 127 | 0.04 | ug/ml# | 64 |

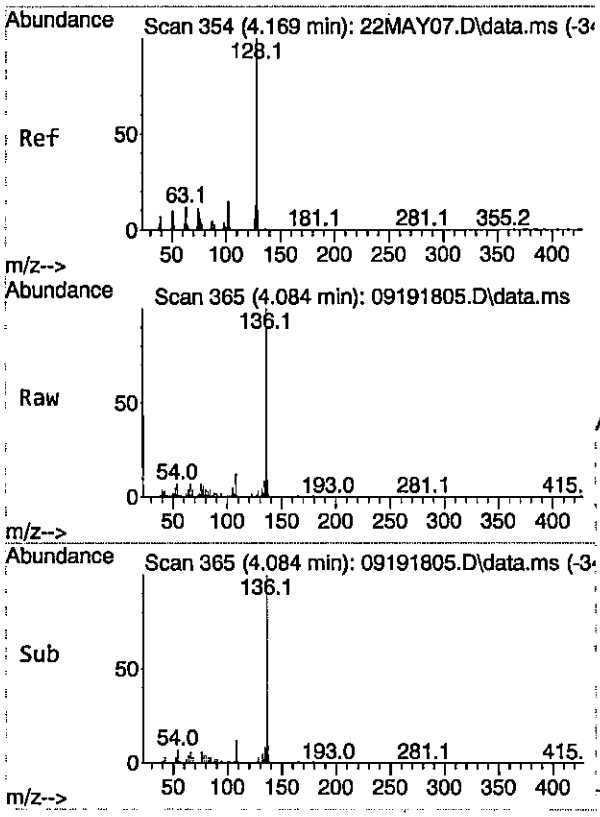
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191805.D
Acq On : 19 Sep 2018 12:30 pm
Operator : EB
Sample : 1809940-01B DF500
Misc : 500X 18BAW-124572
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 19 13:12:13 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

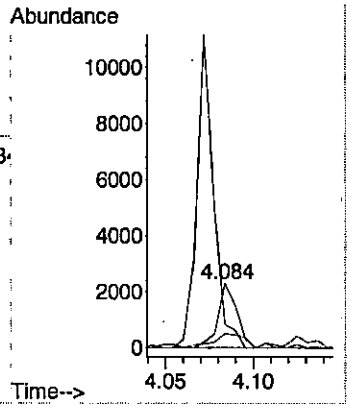


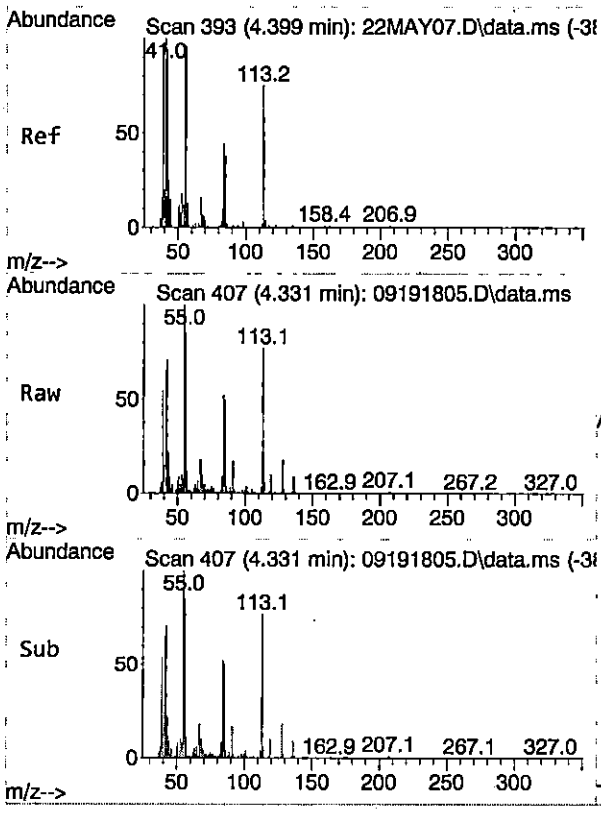



#33
Naphthalene
Concen: 0.03 ug/ml
RT: 4.084 min Scan# 365
Delta R.T. 0.000 min
Lab File: 09191805.D
Acq: 19 Sep 2018 12:30 pm

Tgt Ion:128 Resp: 1760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 102 | 422.2 | 0.0 | 42.0# |
| 127 | 35.5 | 0.0 | 43.1 |

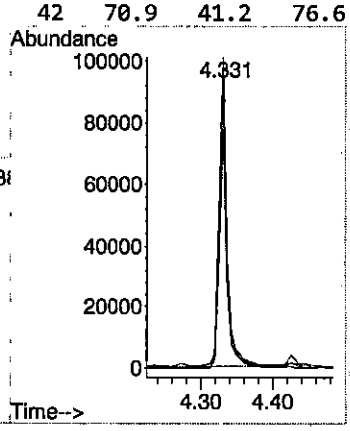



#37
Caprolactam
Concen: 21.66 ug/ml
RT: 4.331 min Scan# 407
Delta R.T. 0.006 min
Lab File: 09191805.D
Acq: 19 Sep 2018 12:30 pm

Tgt Ion: 55 Resp: 78292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 113 | 75.9 | 47.9 | 89.1 |
| 56 | 86.3 | 56.1 | 104.3 |
| 42 | 70.9 | 41.2 | 76.6 |



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181847.D
Acq On : 19 Sep 2018 5:28 am
Operator : EB
Sample : 1809940-02B DF50
Misc : 50X 18BAW-124572
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 19 08:13:30 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

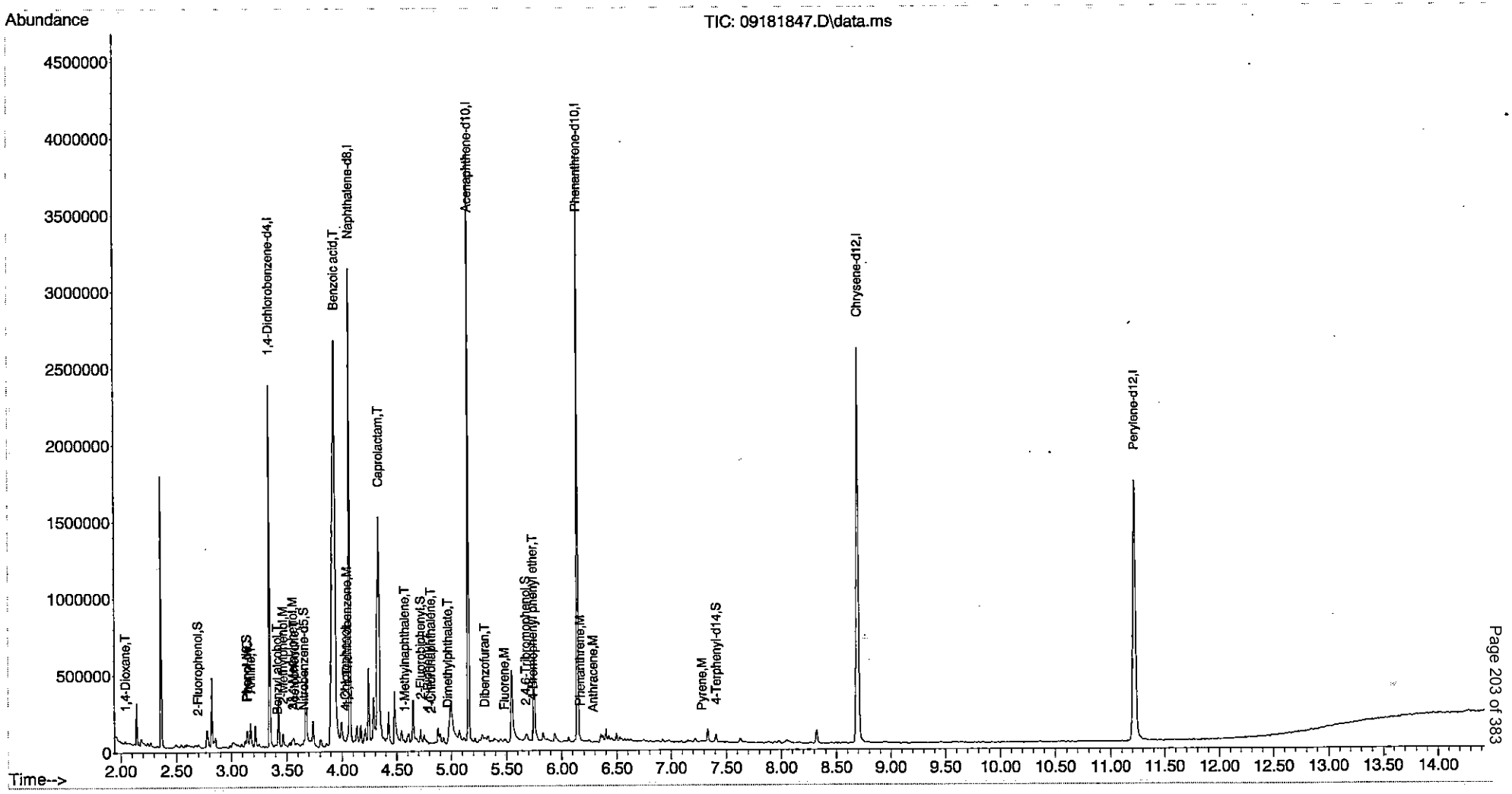
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 342561 | 40.00 ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 814739 | 40.00 ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 518060 | 40.00 ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.143 | 188 | 1004182 | 40.00 ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.695 | 240 | 1127032 | 40.00 ug/ml | 0.00 |
| 92) Perylene-d12 | 11.219 | 264 | 1151264 | 40.00 ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.696 | 112 | 2302 | 0.47 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 0.94%# | | |
| 7) Phenol-d6 | 3.137 | 99 | 1881 | 0.44 ug/ml | 0.01 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 0.88%# | | |
| 23) Nitrobenzene-d5 | 3.654 | 82 | 8620 | 1.06 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 2.12%# | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 13135 | 0.77 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 1.54%# | | |
| 73) 2,4,6-Tribromophenol | 5.672 | 330 | 2458 | 1.27 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 2.54%# | | |
| 86) 4-Terphenyl-d14 | 7.407 | 244 | 14104 | 0.65 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 1.30%# | | |
| **Target Compounds** | | | | | Qvalue |
| 3) 1,4-Dioxane | 2.043 | 88 | 5494 | 1.13 ug/ml | 85 |
| 8) Phenol | 3.143 | 94 | 33759 | 3.84 ug/ml | 95 |
| 9) Aniline | 3.172 | 93 | 42592 | 4.18 ug/ml | 94 |
| 14) Benzyl alcohol | 3.413 | 108 | 796 | 0.52 ug/ml# | 1 |
| 16) 2-Methylphenol | 3.466 | 107 | 10229 | 1.94 ug/ml | 89 |
| 18) 3&4-Methylphenol | 3.554 | 107 | 7598 | 1.09 ug/ml | 93 |
| 19) Acetophenone | 3.566 | 105 | 8749 | 0.83 ug/ml# | 77 |
| 29) Benzoic acid | 3.937 | 122 | 785517 | 126.50 ug/ml | 91 |
| 31) 1,2,4-Trichlorobenzene | 4.049 | 180 | 323 | 0.04 ug/ml# | 12 |
| 32) 4-Chlorophenol | 4.031 | 128 | 145 | 0.02 ug/ml# | 44 |
| 33) Naphthalene | 4.013 | 128 | 447 | Below Cal | 61 |
| 37) Caprolactam | 4.337 | 55 | 170734 | 56.90 ug/ml | 87 |
| 40) 1-Methylnaphthalene | 4.572 | 142 | 196 | 0.00 ug/ml# | 1 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 314 | 0.02 ug/ml# | 36 |
| 53) 2-Chloronaphthalene | 4.813 | 162 | 594 | 0.04 ug/ml# | 51 |
| 55) Dimethylphthalate | 4.966 | 163 | 366 | 0.02 ug/ml# | 1 |
| 61) Dibenzofuran | 5.301 | 168 | 239 | 0.01 ug/ml# | 40 |
| 65) Fluorene | 5.478 | 166 | 149 | 0.01 ug/ml# | 1 |
| 74) 4-Bromophenyl phenyl e... | 5.737 | 248 | 41 | 0.01 ug/ml# | 1 |
| 75) Hexachlorobenzene | 5.866 | 284 | 42 | Below Cal # | 1 |
| 77) Phenanthrene | 6.166 | 178 | 291 | 0.01 ug/ml# | 35 |
| 78) Anthracene | 6.284 | 178 | 312 | 0.04 ug/ml | 70 |
| 85) Pyrene | 7.278 | 202 | 405 | 0.01 ug/ml# | 6 |

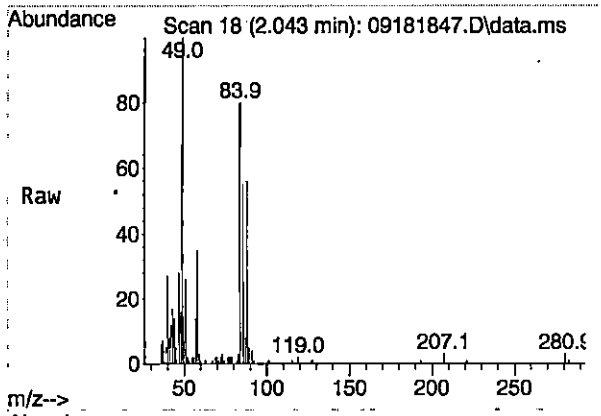
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181847.D
Acq On : 19 Sep 2018 5:28 am
Operator : EB
Sample : 1809940-02B DF50
Misc : 50X 18BAW-124572
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 19 08:13:30 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

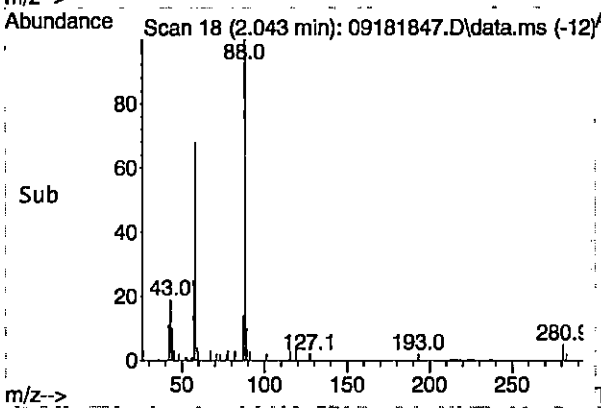


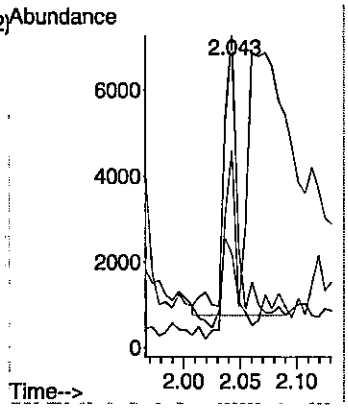


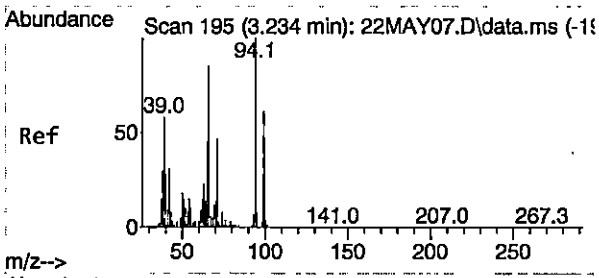

#3
1,4-Dioxane
Concen: 1.13 ug/ml
RT: 2.043 min Scan# 18
Delta R.T. -0.000 min
Lab File: 09181847.D
Acq: 19 Sep 2018 5:28 am

Tgt Ion: 88 Resp: 5494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 54.1 | 49.3 | 91.6 |
| 43 | 33.5 | 22.1 | 41.1 |



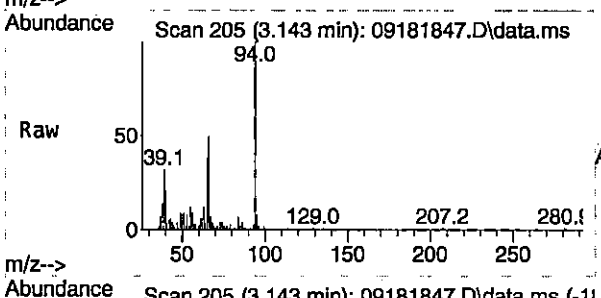



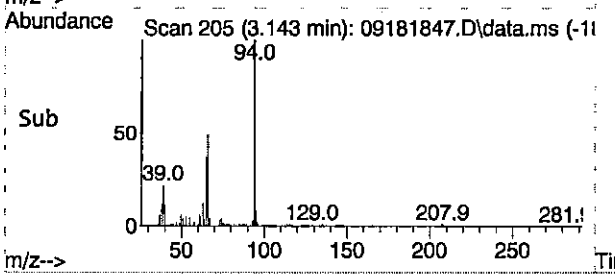



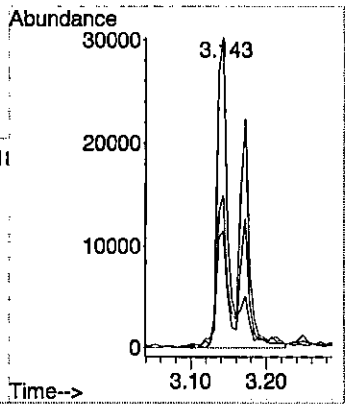

#8
Phenol
Concen: 3.84 ug/ml
RT: 3.143 min Scan# 205
Delta R.T. 0.012 min
Lab File: 09181847.D
Acq: 19 Sep 2018 5:28 am

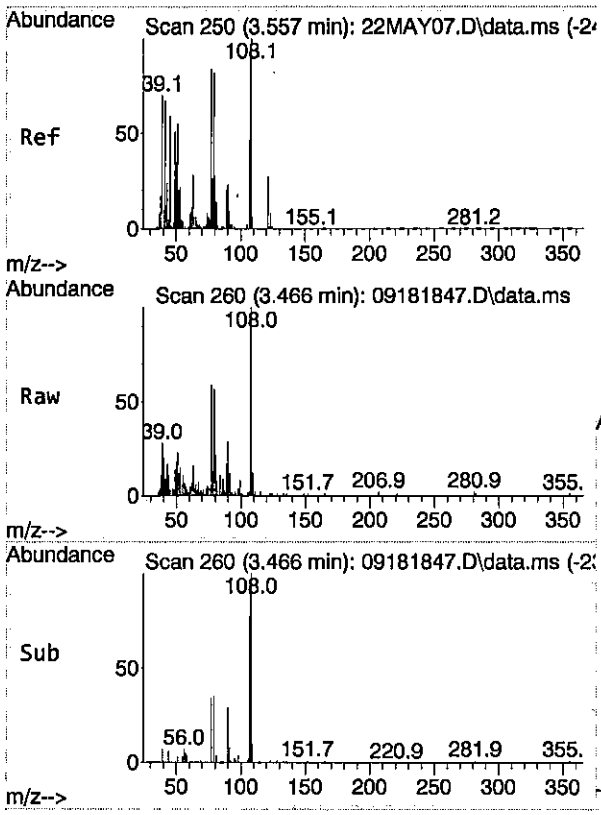
Tgt Ion: 94 Resp: 33759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 36.2 | 2.8 | 62.8 |
| 66 | 46.0 | 18.7 | 78.7 |



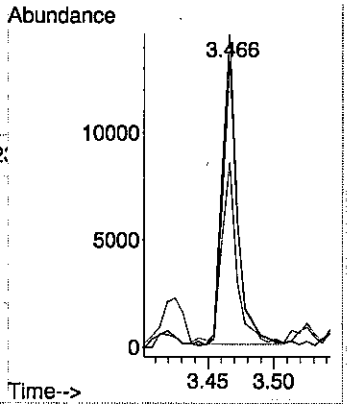



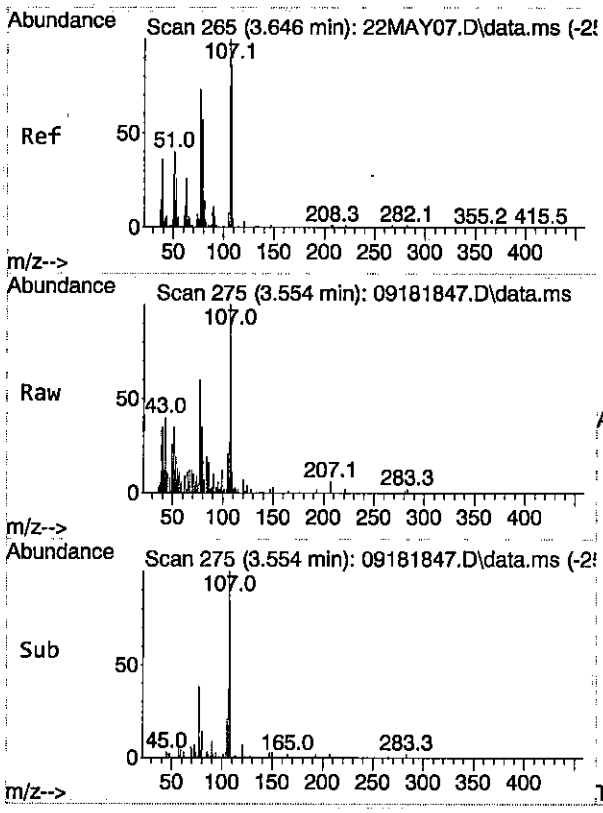



#16
2-Methylphenol
Concen: 1.94 ug/ml
RT: 3.466 min Scan# 260
Delta R.T. 0.006 min
Lab File: 09181847.D
Acq: 19 Sep 2018 5:28 am

Tgt Ion:107 Resp: 10229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 113.4 | 83.3 | 143.3 |
| 77 | 62.3 | 54.7 | 114.7 |

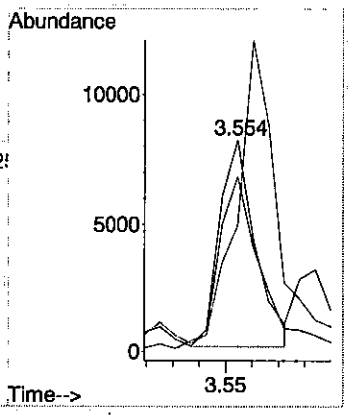


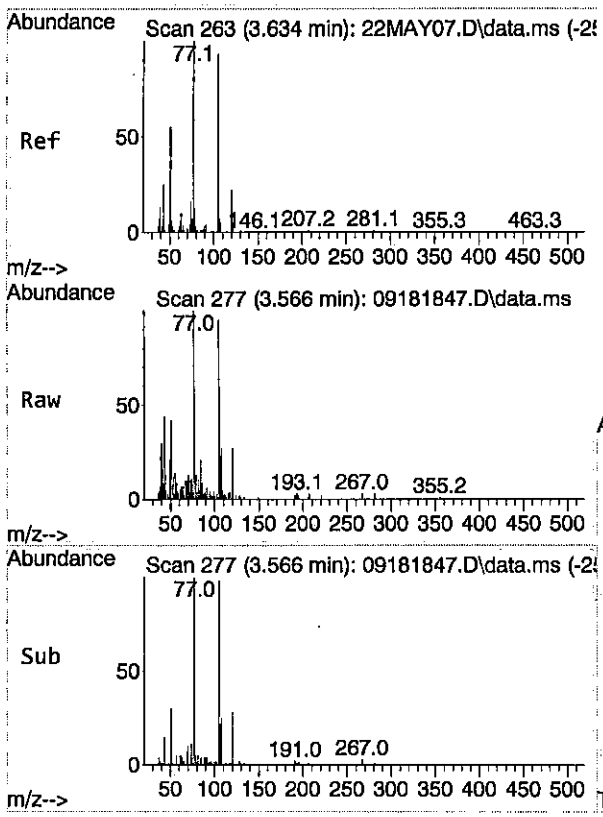




#18
3&4-Methylphenol
Concen: 1.09 ug/ml
RT: 3.554 min Scan# 275
Delta R.T. 0.011 min
Lab File: 09181847.D
Acq: 19 Sep 2018 5:28 am

Tgt Ion:107 Resp: 7598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 105.7 | 61.0 | 121.0 |
| 77 | 163.4 | 131.5 | 191.5 |

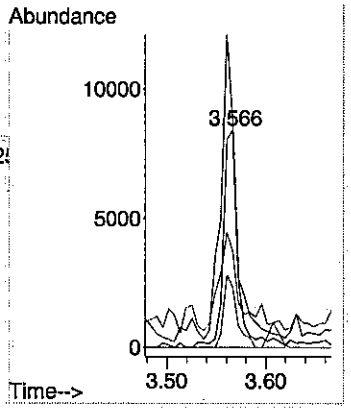


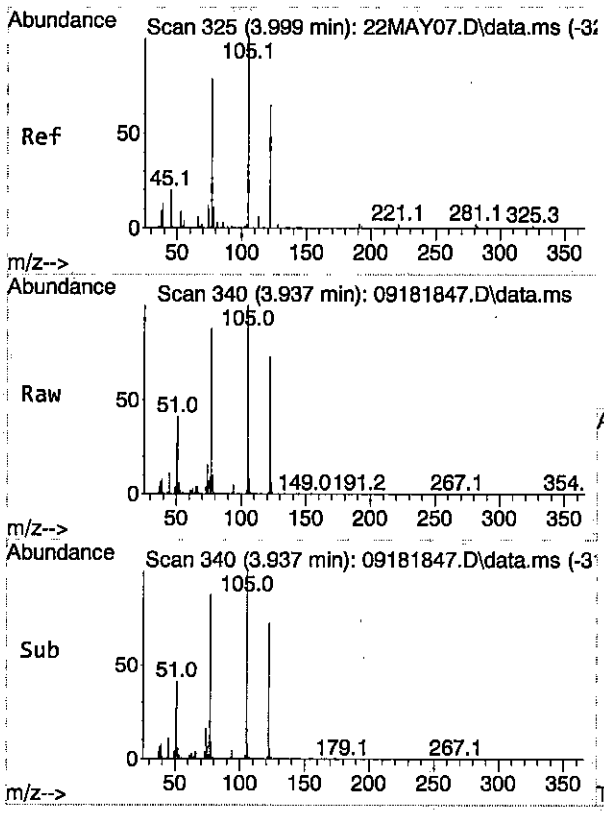



#19
Acetophenone
Concen: 0.83 ug/ml
RT: 3.566 min Scan# 277
Delta R.T. 0.006 min
Lab File: 09181847.D
Acq: 19 Sep 2018 5:28 am

Tgt Ion:105 Resp: 8749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 141.9 | 80.6 | 149.8 |
| 51 | 63.0 | 30.8 | 57.2# |
| 120 | 30.3 | 19.3 | 35.8 |

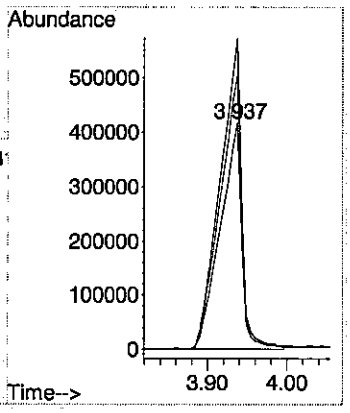


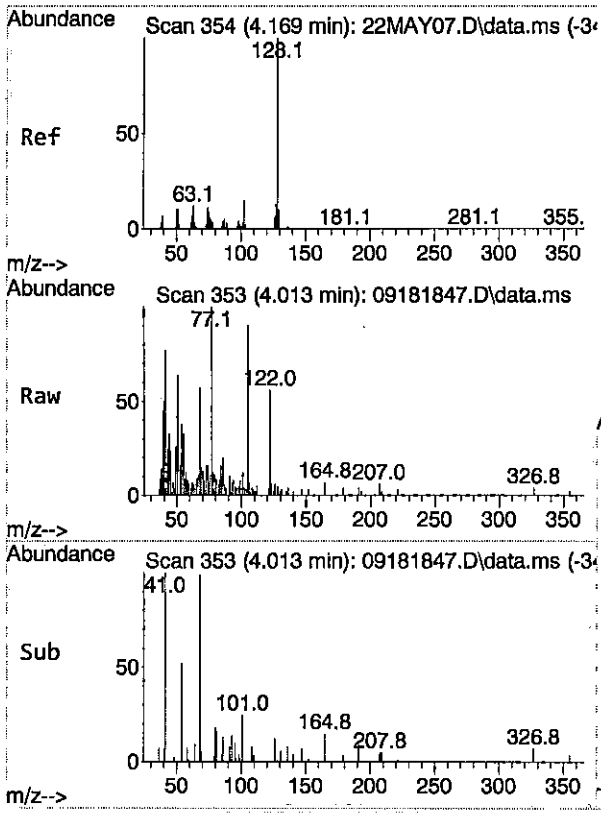




#29
Benzoic acid
Concen: 126.50 ug/ml
RT: 3.937 min Scan# 340
Delta R.T. 0.042 min
Lab File: 09181847.D
Acq: 19 Sep 2018 5:28 am

Tgt Ion:122 Resp: 785517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 138.4 | 102.8 | 162.8 |
| 77 | 121.9 | 76.6 | 136.6 |

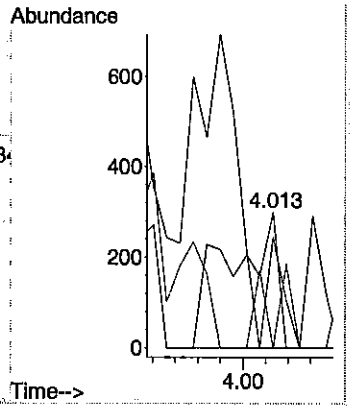


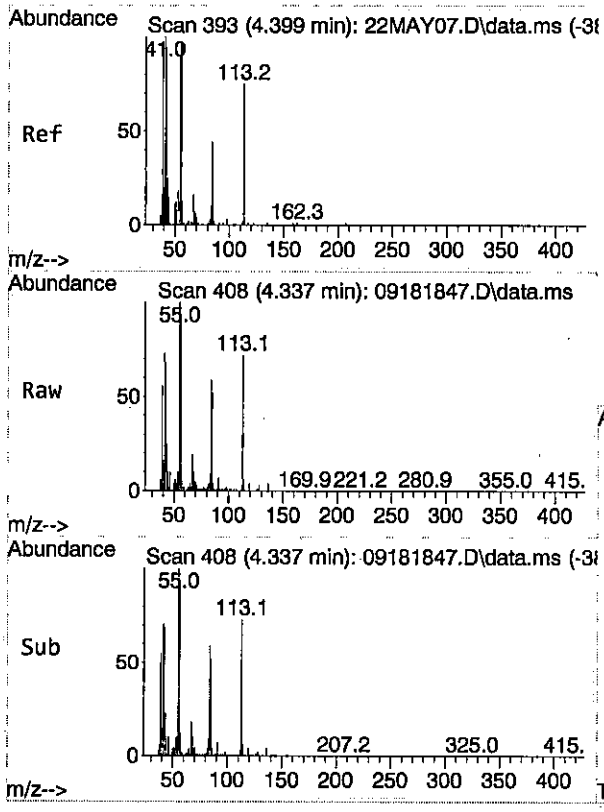



#33
Naphthalene
Concen: Below Cal
RT: 4.013 min Scan# 353
Delta R.T. -0.071 min
Lab File: 09181847.D
Acq: 19 Sep 2018 5:28 am

Tgt Ion:128 Resp: 447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 102 | 27.5 | 0.0 | 42.0 |
| 127 | 28.2 | 0.0 | 43.1 |

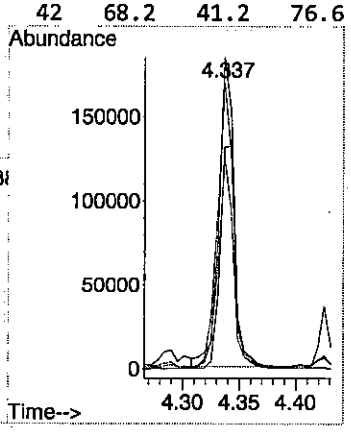



#37
Caprolactam
Concen: 56.90 ug/ml
RT: 4.337 min Scan# 408
Delta R.T. 0.012 min
Lab File: 09181847.D
Acq: 19 Sep 2018 5:28 am

Tgt Ion: 55 Resp: 170734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 113 | 73.3 | 47.9 | 89.1 |
| 56 | 96.8 | 56.1 | 104.3 |
| 42 | 68.2 | 41.2 | 76.6 |



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181848.D
Acq On : 19 Sep 2018 5:49 am
Operator : EB
Sample : 1809940-03B DF50
Misc : 50X 18BAW-124572
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 19 08:13:34 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

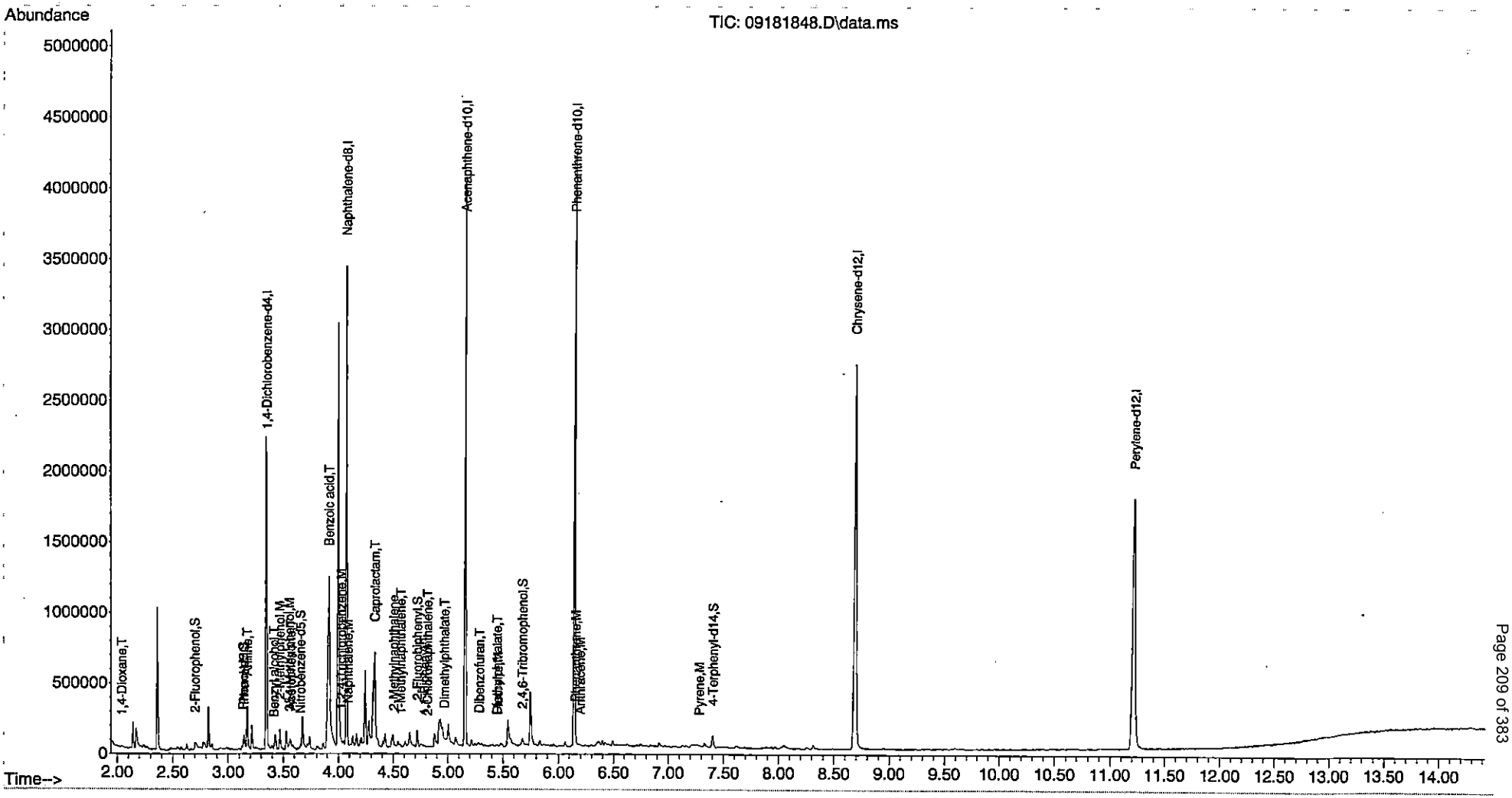
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.349 | 150 | 370708 | 40.00 | ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 886923 | 40.00 | ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 556269 | 40.00 | ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.143 | 188 | 1075712 | 40.00 | ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.684 | 240 | 1193887 | 40.00 | ug/ml | 0.00 |
| 92) Perylene-d12 | 11.213 | 264 | 1211200 | 40.00 | ug/ml | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.702 | 112 | 2628 | 0.49 | ug/ml | 0.01 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery | = | 0.98%# | |
| 7) Phenol-d6 | 3.137 | 99 | 2334m | 0.47 | ug/ml | 0.01 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery | = | 0.94%# | |
| 23) Nitrobenzene-d5 | 3.654 | 82 | 9278 | 1.05 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery | = | 2.10%# | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 20394 | 1.12 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery | = | 2.24%# | |
| 73) 2,4,6-Tribromophenol | 5.672 | 330 | 3085 | 1.48 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery | = | 2.96%# | |
| 86) 4-Terphenyl-d14 | 7.401 | 244 | 25055 | 1.05 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery | = | 2.10%# | |
| **Target Compounds** | | | | | | Qvalue |
| 3) 1,4-Dioxane | 2.043 | 88 | 5012 | 0.92 | ug/ml# | 62 |
| 8) Phenol | 3.143 | 94 | 27011 | 2.88 | ug/ml | 94 |
| 9) Aniline | 3.172 | 93 | 80451 | 7.09 | ug/ml | 94 |
| 14) Benzyl alcohol | 3.413 | 108 | 1836 | 0.73 | ug/ml | 85 |
| 16) 2-Methylphenol | 3.466 | 107 | 18159 | 3.18 | ug/ml | 86 |
| 18) 3&4-Methylphenol | 3.554 | 107 | 9072 | 1.20 | ug/ml | 85 |
| 19) Acetophenone | 3.566 | 105 | 12018 | 1.06 | ug/ml# | 83 |
| 29) Benzoic acid | 3.913 | 122 | 272766 | 59.23 | ug/ml | 89 |
| 31) 1,2,4-Trichlorobenzene | 4.025 | 180 | 52 | 0.01 | ug/ml# | 12 |
| 33) Naphthalene | 4.084 | 128 | 3180 | 0.10 | ug/ml# | 78 |
| 37) Caprolactam | 4.331 | 55 | 68130 | 23.54 | ug/ml | 89 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 753 | 0.07 | ug/ml# | 48 |
| 40) 1-Methylnaphthalene | 4.566 | 142 | 1040 | 0.06 | ug/ml# | 39 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 986 | 0.05 | ug/ml# | 26 |
| 53) 2-Chloronaphthalene | 4.813 | 162 | 2074 | 0.13 | ug/ml# | 70 |
| 55) Dimethylphthalate | 4.966 | 163 | 547 | 0.03 | ug/ml# | 1 |
| 61) Dibenzofuran | 5.284 | 168 | 269 | 0.01 | ug/ml# | 1 |
| 64) Diethylphthalate | 5.443 | 149 | 6848m | 0.35 | ug/ml | |
| 65) Fluorene | 5.448 | 166 | 369 | 0.02 | ug/ml | 67 |
| 66) 4-Chlorophenyl phenyl ... | 5.525 | 204 | 43 | Below Cal | # | 1 |
| 75) Hexachlorobenzene | 5.825 | 284 | 110 | Below Cal | # | 1 |
| 77) Phenanthrene | 6.154 | 178 | 2855 | 0.10 | ug/ml# | 53 |
| 78) Anthracene | 6.195 | 178 | 1269 | 0.08 | ug/ml# | 52 |
| 85) Pyrene | 7.278 | 202 | 1564 | 0.05 | ug/ml# | 77 |

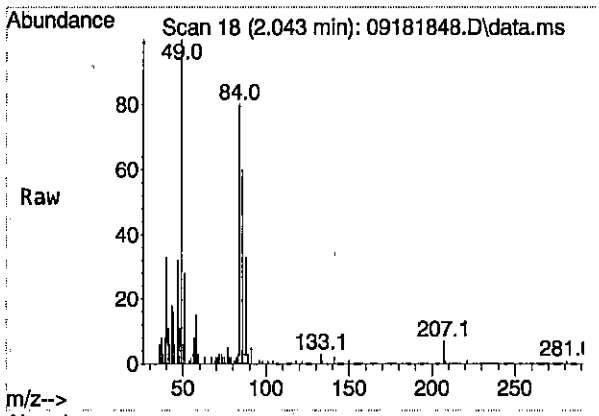
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181848.D
Acq On : 19 Sep 2018 5:49 am
Operator : EB
Sample : 1809940-03B DF50
Misc : 50X 18BAW-124572
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 19 08:13:34 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

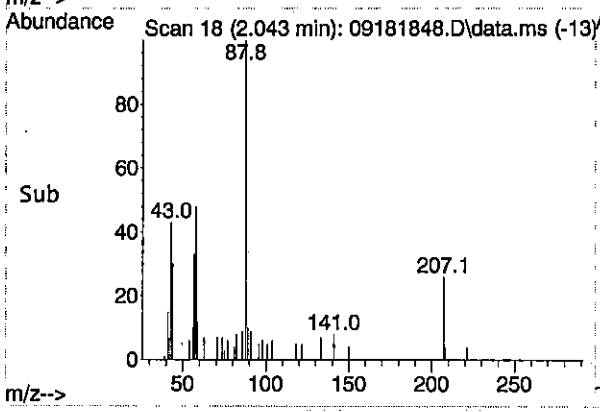


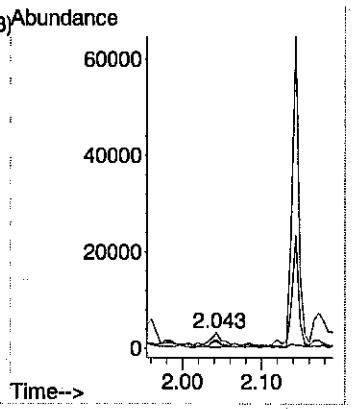


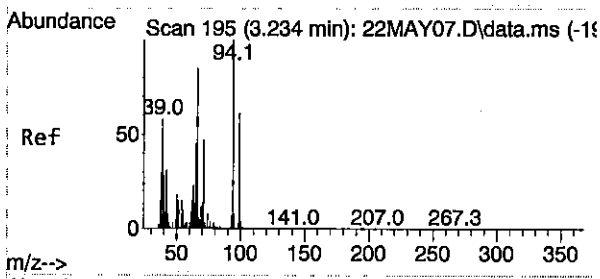

#3
1,4-Dioxane
Concen: 0.92 ug/ml
RT: 2.043 min Scan# 18
Delta R.T. -0.000 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion: 88 Resp: 5012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 26.8 | 49.3 | 91.6# |
| 43 | 29.5 | 22.1 | 41.1 |



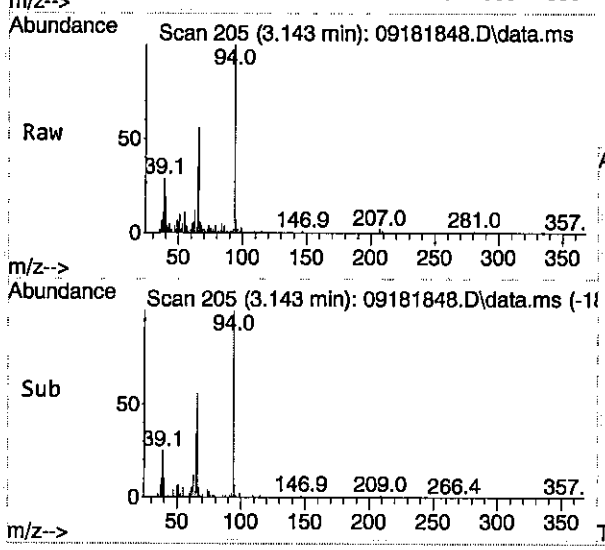



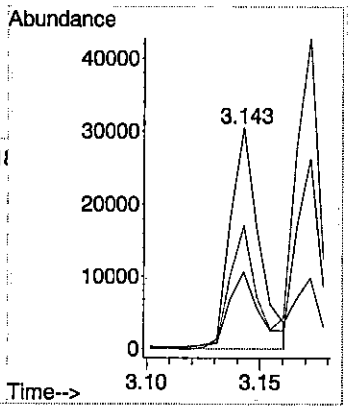



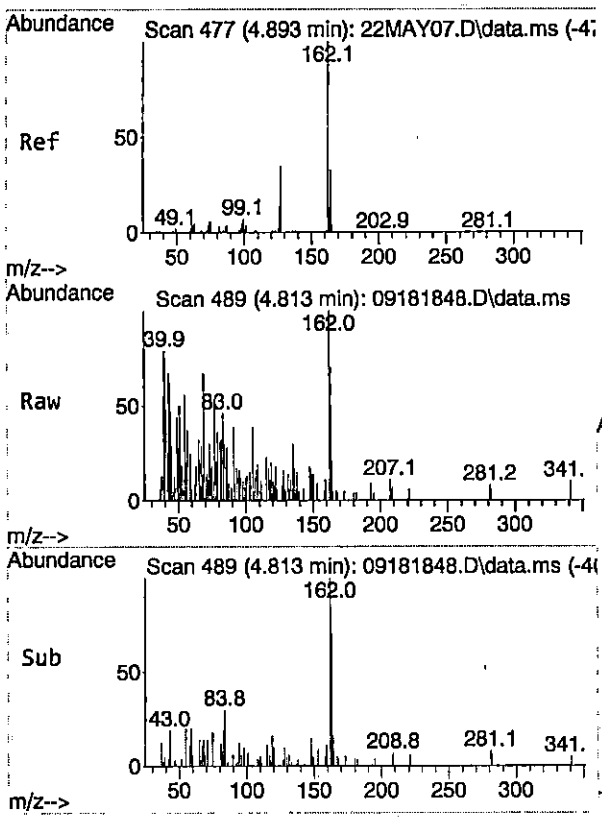

#8
Phenol
Concen: 2.88 ug/ml
RT: 3.143 min Scan# 205
Delta R.T. 0.012 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion: 94 Resp: 27011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 38.0 | 2.8 | 62.8 |
| 66 | 51.0 | 18.7 | 78.7 |



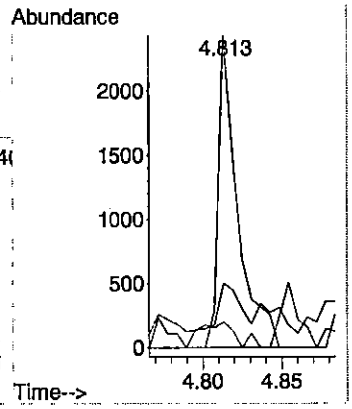



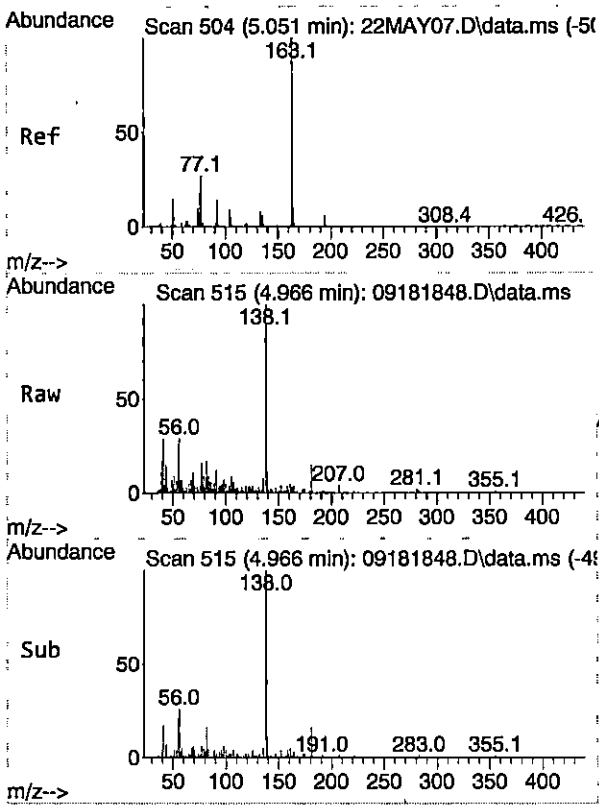



#53
2-Chloronaphthalene
Concen: 0.13 ug/ml
RT: 4.813 min Scan# 489
Delta R.T. 0.012 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:162 Resp: 2074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 32.5 | 3.7 | 63.7 |
| 127 | 13.3 | 17.2 | 77.2# |

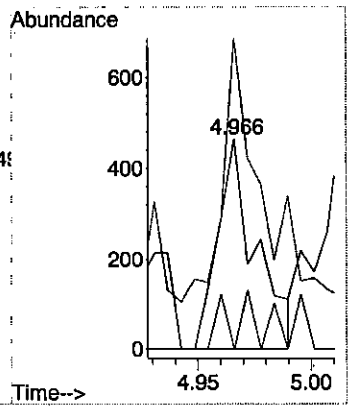


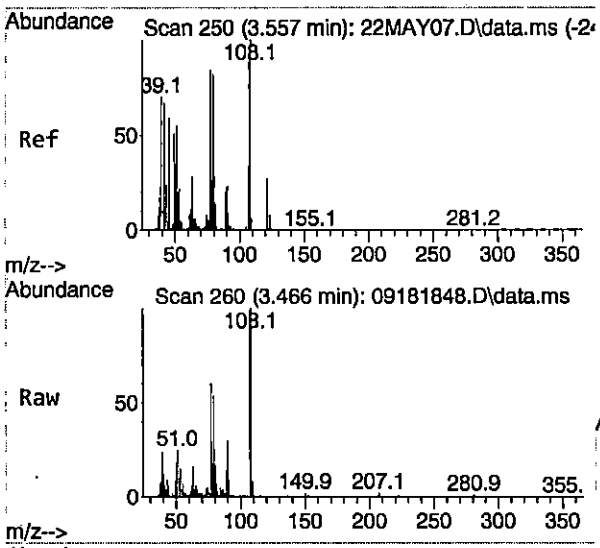




#55
Dimethylphthalate
Concen: 0.03 ug/ml
RT: 4.966 min Scan# 515
Delta R.T. 0.000 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:163 Resp: 547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 8.4 | 0.0 | 36.5 |
| 164 | 172.8 | 0.0 | 40.3# |

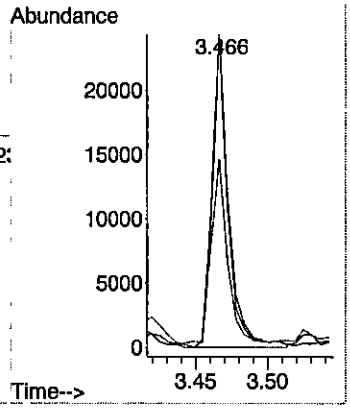


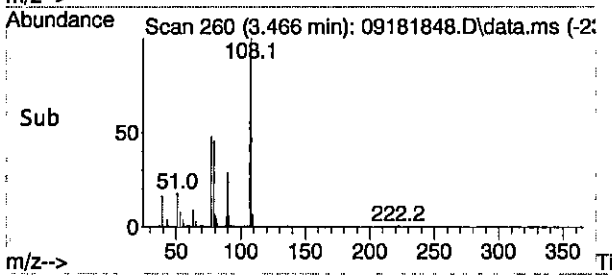


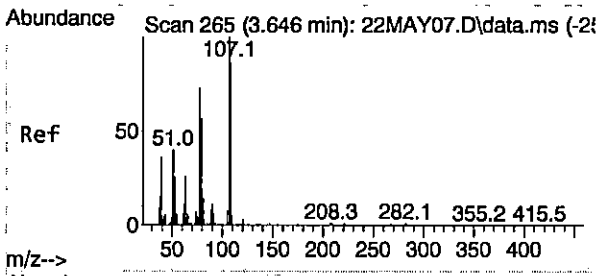

#16
2-Methylphenol
Concen: 3.18 ug/ml
RT: 3.466 min Scan# 260
Delta R.T. 0.006 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:107 Resp: 18159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 107.9 | 83.3 | 143.3 |
| 77 | 60.4 | 54.7 | 114.7 |



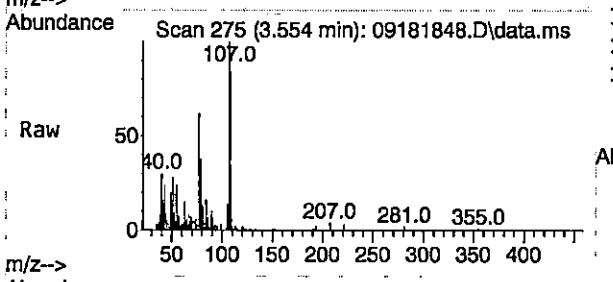



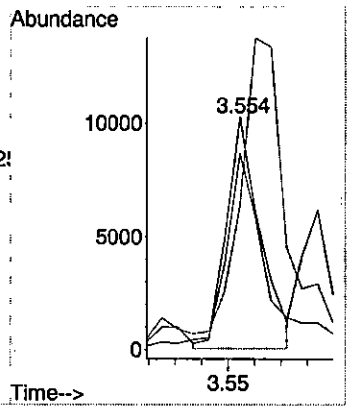



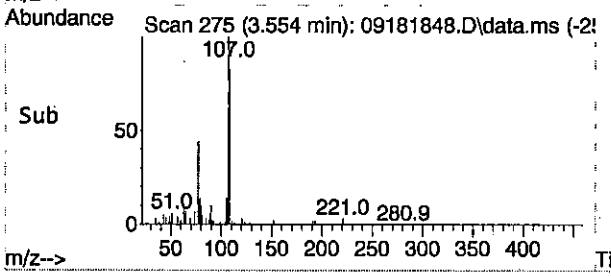

#18
3&4-Methylphenol
Concen: 1.20 ug/ml
RT: 3.554 min Scan# 275
Delta R.T. 0.011 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

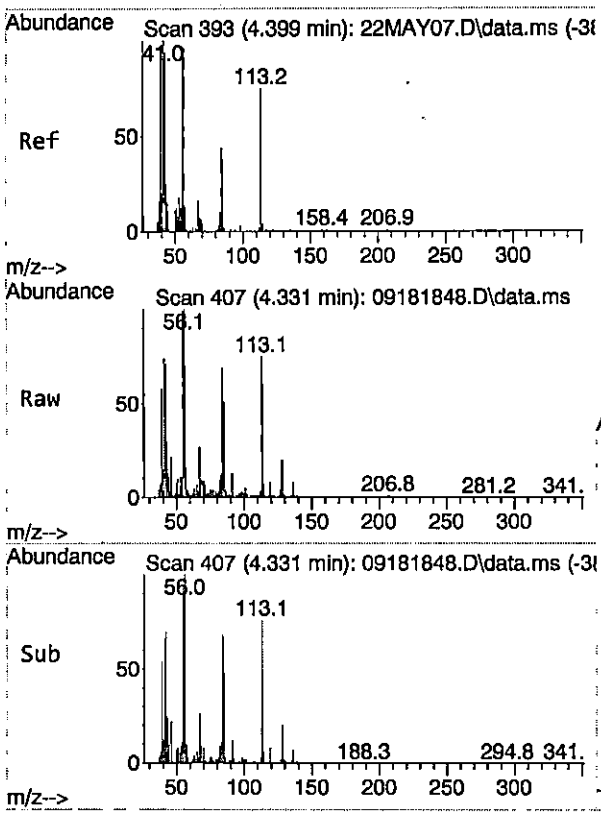
Tgt Ion:107 Resp: 9072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 110.9 | 61.0 | 121.0 |
| 77 | 175.9 | 131.5 | 191.5 |



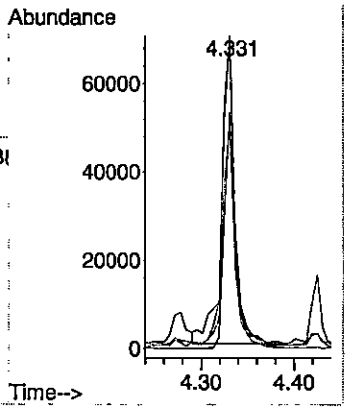



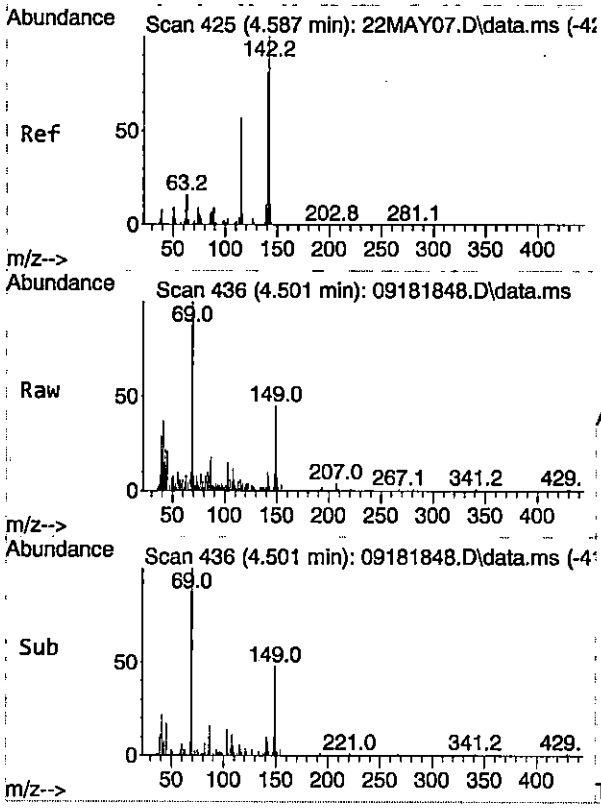



#37
Caprolactam
Concen: 23.54 ug/ml
RT: 4.331 min Scan# 407
Delta R.T. 0.006 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion: 55 Resp: 68130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 113 | 64.5 | 47.9 | 89.1 |
| 56 | 95.6 | 56.1 | 104.3 |
| 42 | 65.3 | 41.2 | 76.6 |

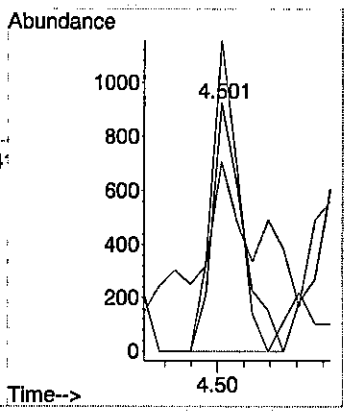


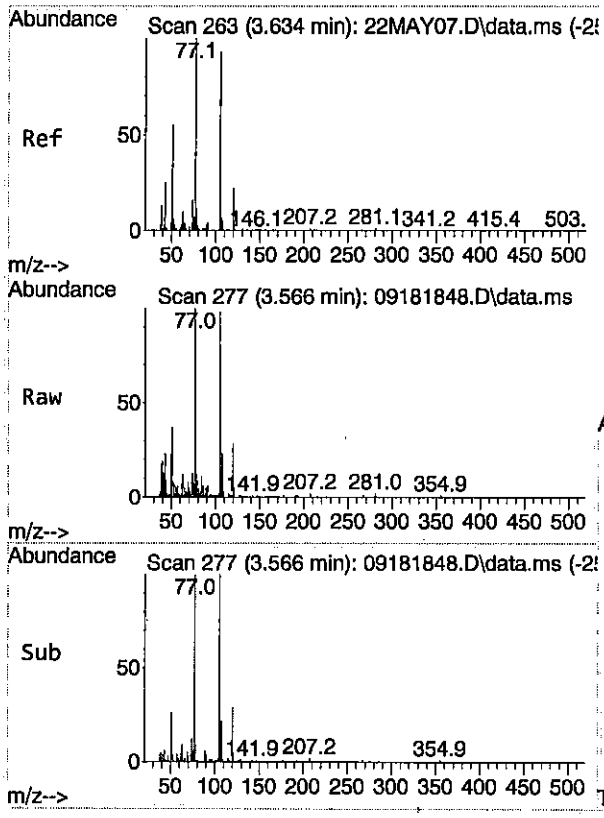




#39
2-Methylnaphthalene
Concen: 0.07 ug/ml
RT: 4.501 min Scan# 436
Delta R.T. 0.000 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:142 Resp: 753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 107.8 | 58.2 | 108.2 |
| 115 | 104.4 | 28.5 | 52.9# |

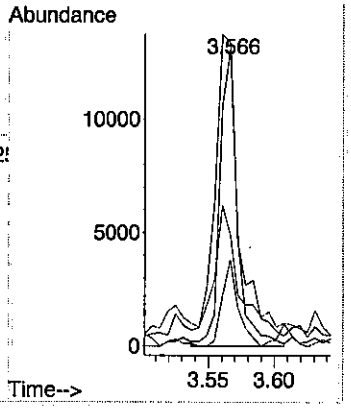


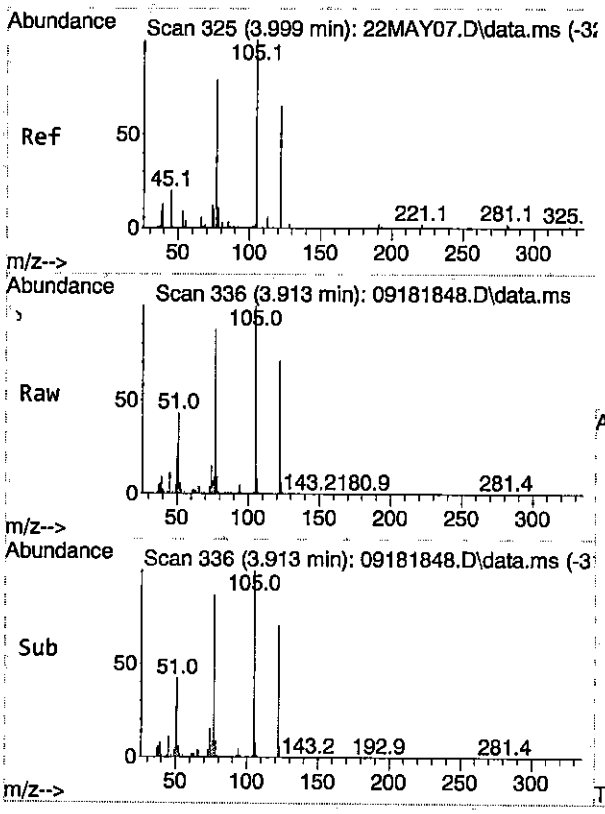



#19
Acetophenone
Concen: 1.06 ug/ml
RT: 3.566 min Scan# 277
Delta R.T. 0.006 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:105 Resp: 12018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 131.9 | 80.6 | 149.8 |
| 51 | 63.1 | 30.8 | 57.2# |
| 120 | 26.6 | 19.3 | 35.8 |

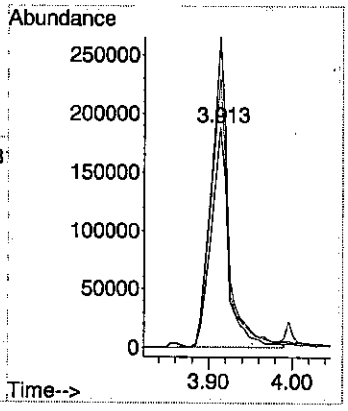


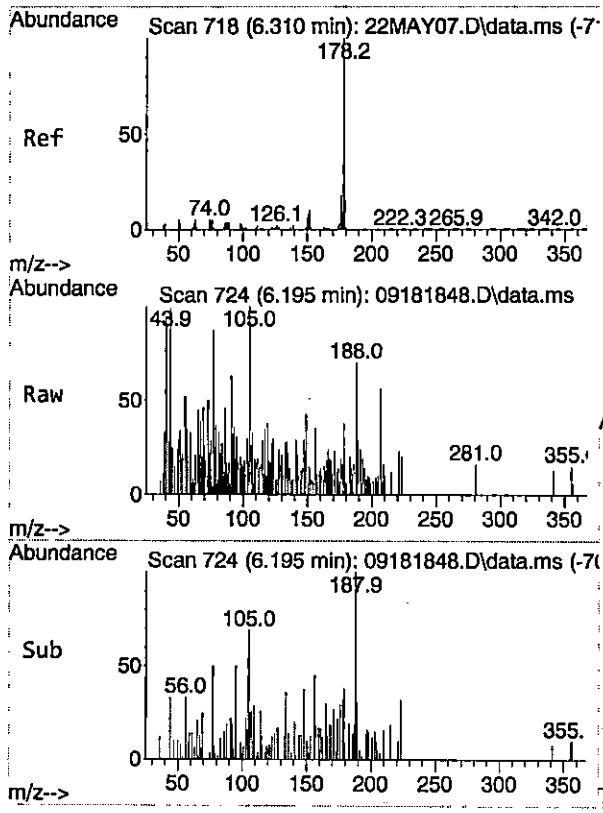




#29
Benzoic acid
Concen: 59.23 ug/ml
RT: 3.913 min Scan# 336
Delta R.T. 0.018 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:122 Resp: 272766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 140.6 | 102.8 | 162.8 |
| 77 | 122.8 | 76.6 | 136.6 |

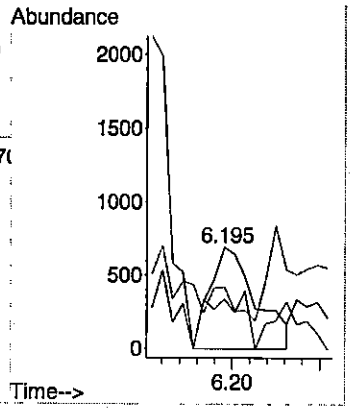


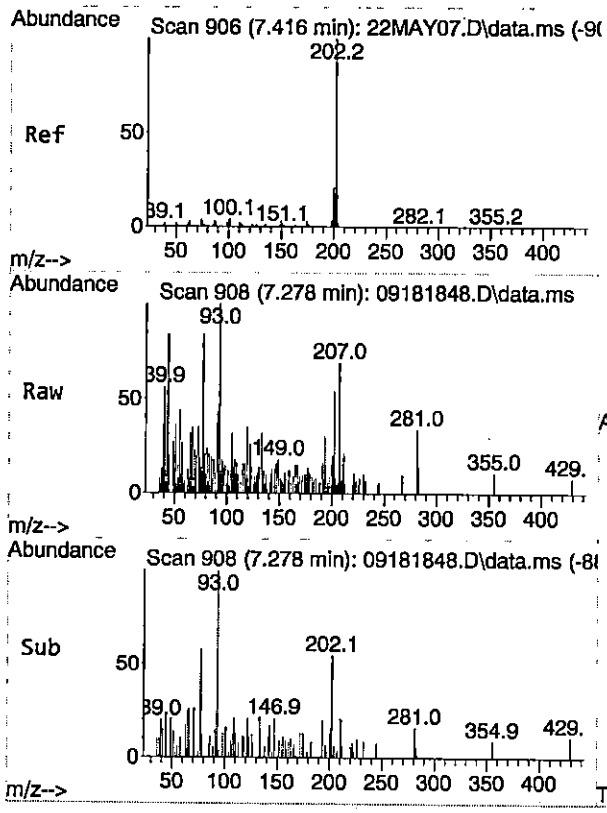



#78
Anthracene
Concen: 0.08 ug/ml
RT: 6.195 min Scan# 724
Delta R.T. 0.000 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:178 Resp: 1269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 44.1 | 0.0 | 48.5 |
| 179 | 0.0 | 0.0 | 45.3 |

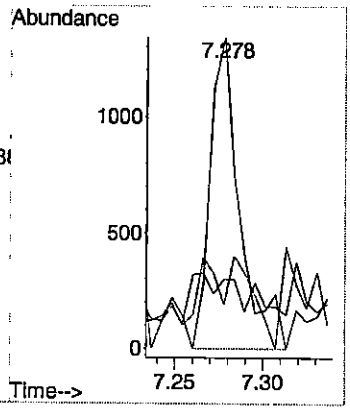


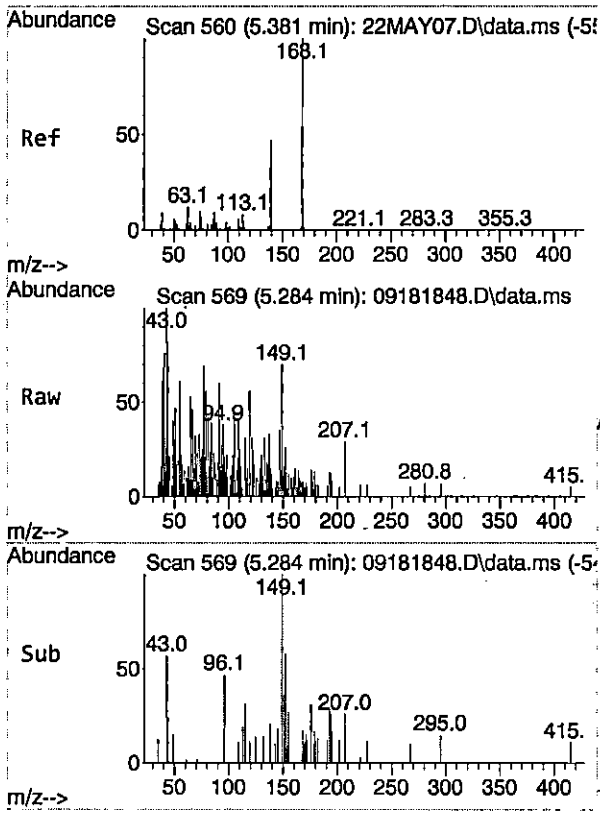




#85
Pyrene
Concen: 0.05 ug/ml
RT: 7.278 min Scan# 908
Delta R.T. 0.006 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:202 Resp: 1564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 0.0 | 0.0 | 43.8 |
| 203 | 24.4 | 0.0 | 47.9 |

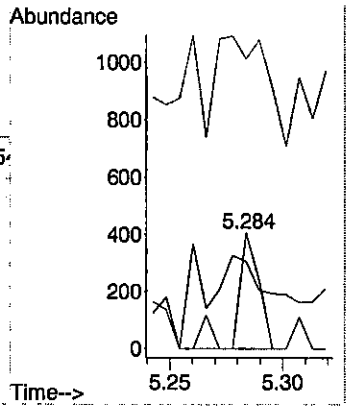


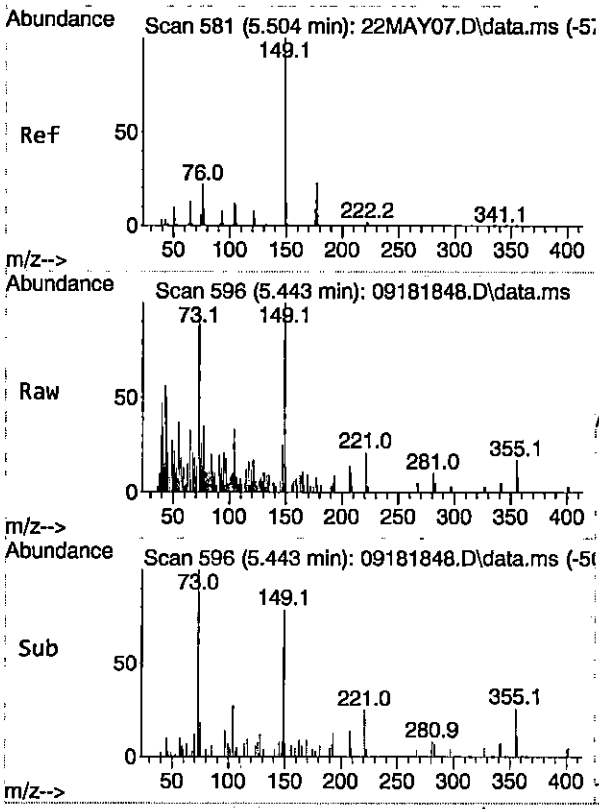



#61
Dibenzofuran
Concen: 0.01 ug/ml
RT: 5.284 min Scan# 569
Delta R.T. -0.000 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:168 Resp: 269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 0.0 | 12.2 | 72.2# |
| 84 | 237.5 | 0.0 | 36.9# |

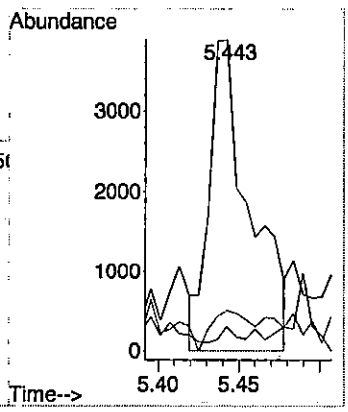


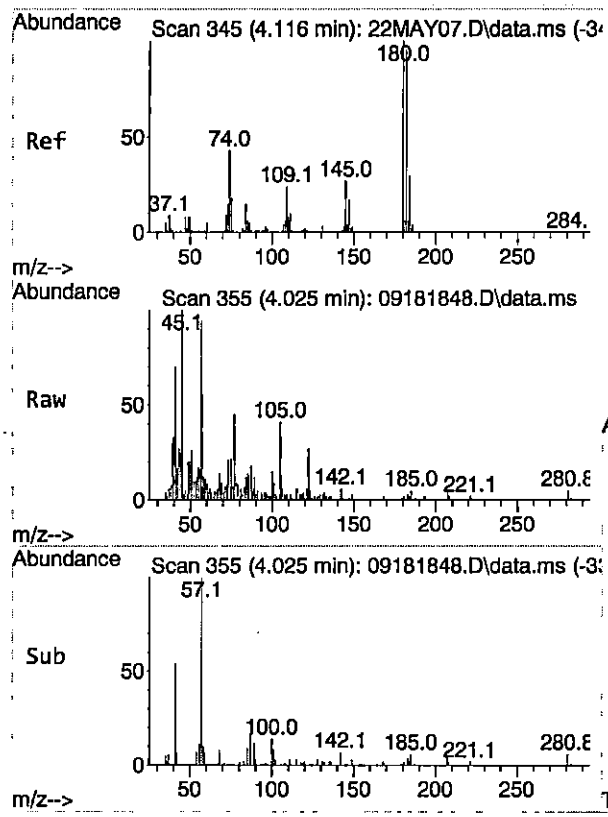




#64
Diethylphthalate
Concen: 0.35 ug/ml m
RT: 5.443 min Scan# 596
Delta R.T. 0.036 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:149 Resp: 6848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 3.9 | 0.0 | 51.8 |
| 150 | 23.7 | 0.0 | 42.2 |

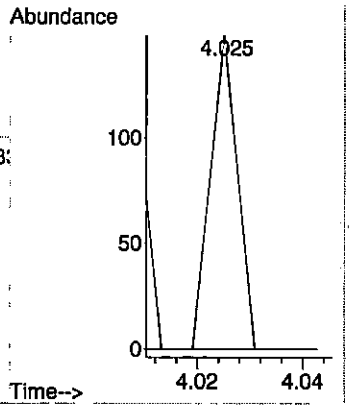


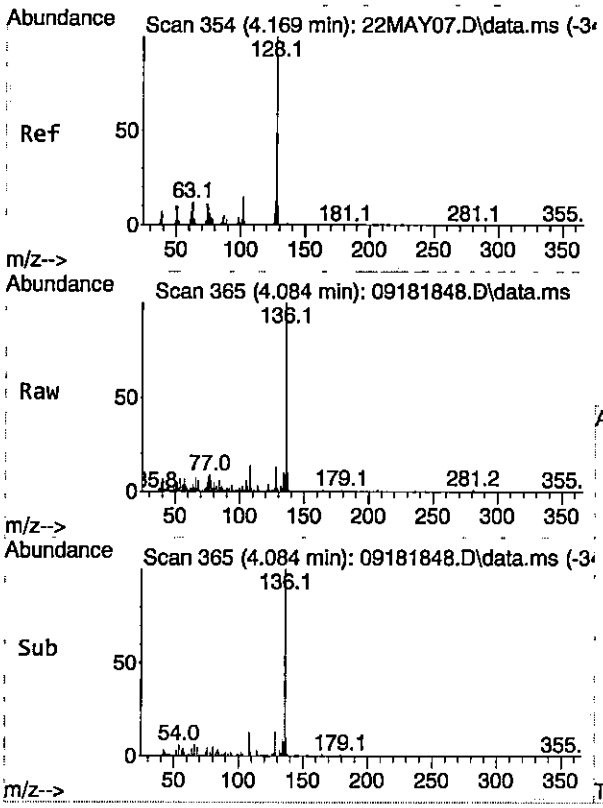



#31
1,2,4-Trichlorobenzene
Concen: 0.01 ug/ml
RT: 4.025 min Scan# 355
Delta R.T. -0.012 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:180 Resp: 52

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 0.0 | 65.5 | 125.5# |
| 145 | 0.0 | 1.0 | 61.0# |

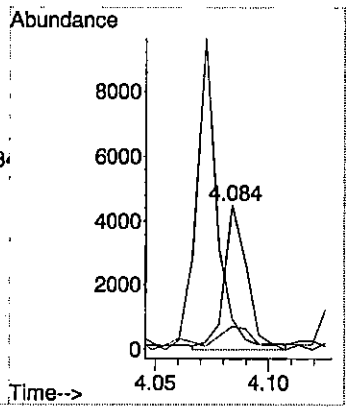


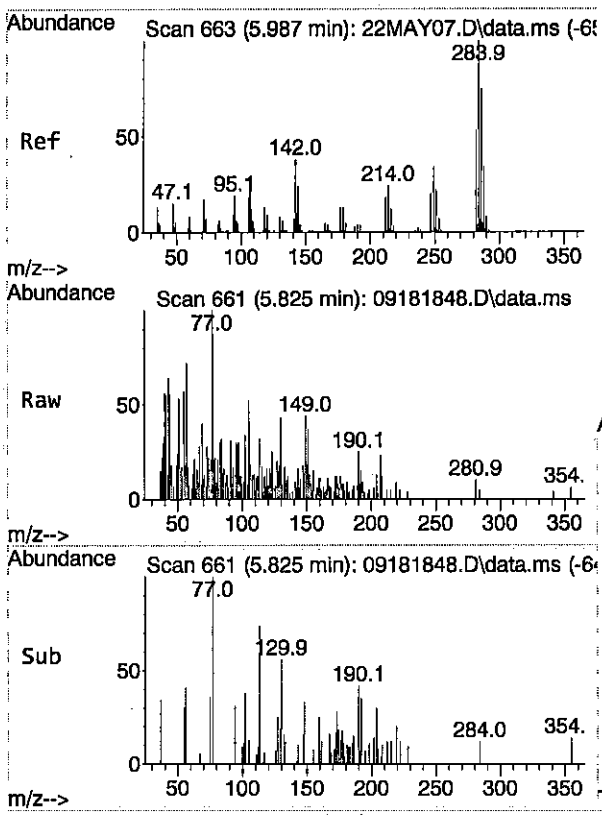




#33
Naphthalene
Concen: 0.10 ug/ml
RT: 4.084 min Scan# 365
Delta R.T. -0.000 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:128 Resp: 3180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 102 | 0.0 | 0.0 | 42.0 |
| 127 | 18.4 | 0.0 | 43.1 |

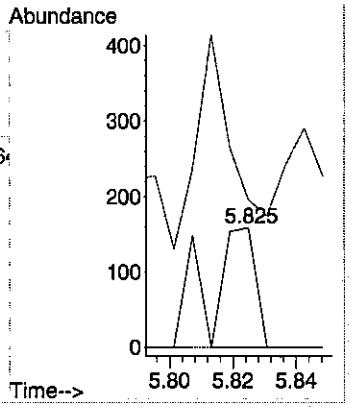


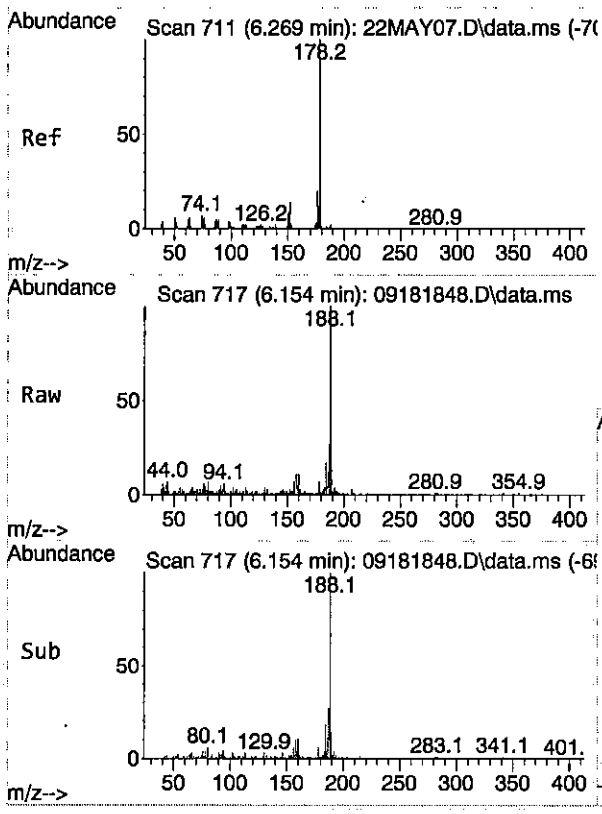



#75
Hexachlorobenzene
Concen: Below Cal
RT: 5.825 min Scan# 661
Delta R.T. -0.047 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:284 Resp: 110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 249 | 0.0 | 2.5 | 62.5# |
| 142 | 340.9 | 16.3 | 76.3# |

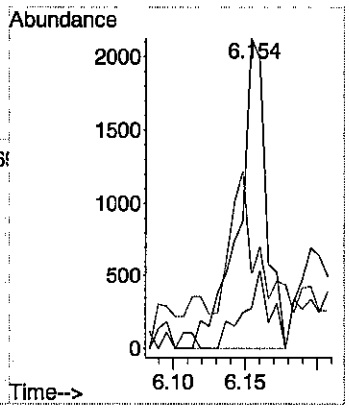



#77
Phenanthrene
Concen: 0.10 ug/ml
RT: 6.154 min Scan# 717
Delta R.T. -0.006 min
Lab File: 09181848.D
Acq: 19 Sep 2018 5:49 am

Tgt Ion:178 Resp: 2855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 23.3 | 0.0 | 49.0 |
| 179 | 55.1 | 0.0 | 45.7# |



Response Factor Report SVMS7

Method Path : E:\Methods\
Method File : 7S091818.M
Title : 8270/625/1311 Calibration
Last Update : Thu Sep 20 14:12:06 2018
Response Via : Initial Calibration

Calibration Files
5 =09181811.D 10 =09181812.D 20 =09181813.D 40 =09181814.D 50 =09181815.D 60 =09181816.D 1 =09181810.D 0.5 =09181809.D
0.1 =09181808.D

| | | Compound | 5 | 10 | 20 | 40 | 50 | 60 | 1 | 0.5 | 0.1 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | | |
| 2) | M | Pyridine | 0.934 | 1.036 | 0.968 | 0.981 | 0.938 | 0.864 | 0.697 | 0.459 | | 0.860 | 22.27 |
| 3) | T | 1,4-Dioxane | 0.463 | 0.454 | 0.450 | 0.423 | 0.390 | 0.352 | 0.557 | 0.741 | | 0.479 | 25.40 |
| 4) | T | N-Nitrosodimet... | 0.552 | 0.608 | 0.594 | 0.578 | 0.591 | 0.563 | 0.543 | 0.539 | | 0.571 | 4.50 |
| 5) | S | 2-Fluorophenol | 0.636 | 0.774 | 0.760 | 0.755 | 0.728 | 0.718 | 0.593 | 0.538 | 0.613 | 0.679 | 12.61 |
| 6) | T | Benzaldehyde | 0.455 | 0.472 | 0.472 | 0.488 | 0.575 | 0.454 | 0.584 | 0.422 | | 0.490 | 11.91 |
| 7) | S | Phenol-d6 | 0.863 | 0.967 | 0.954 | 0.940 | 0.915 | 0.893 | 0.683 | 0.540 | 0.268 | 0.780 | 30.66 |
| 8) | MC | Phenol | 0.924 | 1.028 | 1.036 | 1.010 | 0.973 | 0.907 | 0.868 | 0.796 | | 0.943 | 8.98 |
| 9) | T | Aniline | 1.069 | 1.191 | 1.231 | 1.191 | 1.163 | 1.051 | 0.837 | 0.561 | | 1.037 | 22.14 |
| 10) | T | Bis(2-chloroet... | 0.977 | 0.897 | 0.862 | 0.838 | 0.775 | 0.741 | 0.954 | 1.148 | | 0.899 | 14.35 |
| 11) | MT | 2-Chlorophenol | 0.788 | 0.820 | 0.822 | 0.793 | 0.772 | 0.725 | 0.639 | 0.592 | | 0.744 | 11.52 |
| 12) | T | 1,3-Dichlorobe... | 0.942 | 0.956 | 0.927 | 0.895 | 0.884 | 0.849 | 0.972 | 0.878 | | 0.913 | 4.69 |
| 13) | MC | 1,4-Dichlorobe... | 0.977 | 0.985 | 0.938 | 0.930 | 0.927 | 0.870 | 1.015 | 1.103 | | 0.968 | 7.24 |
| 14) | T | Benzyl alcohol | 0.408 | 0.487 | 0.488 | 0.490 | 0.494 | 0.463 | 0.275 | 0.268 | | 0.422 | 23.00 |
| 15) | T | 1,2-Dichlorobe... | 0.943 | 0.939 | 0.886 | 0.854 | 0.846 | 0.820 | 0.942 | 1.028 | | 0.907 | 7.54 |
| 16) | M | 2-Methylphenol | 0.611 | 0.662 | 0.680 | 0.657 | 0.653 | 0.602 | 0.507 | 0.560 | | 0.617 | 9.59 |
| 17) | T | Dichloroisopro... | 1.066 | 1.011 | 0.996 | 0.954 | 0.937 | 0.828 | 1.064 | 1.042 | | 0.987 | 8.10 |
| 18) | M | 3&4-Methylphenol | 0.817 | 0.862 | 0.882 | 0.845 | 0.843 | 0.769 | 0.699 | | | 0.817 | 7.70 |
| 19) | T | Acetophenone | 1.261 | 1.294 | 1.258 | 1.200 | 1.170 | 1.092 | 1.244 | 1.288 | | 1.226 | 5.59 |
| 20) | MP | N-Nitrosodi-n-... | 0.689 | 0.698 | 0.724 | 0.708 | 0.698 | 0.640 | 0.578 | 0.494 | | 0.654 | 12.22 |
| 21) | M | Hexachloroethane | 0.453 | 0.447 | 0.433 | 0.416 | 0.408 | 0.379 | 0.436 | 0.414 | | 0.423 | 5.64 |
| 22) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | | |
| 23) | S | Nitrobenzene-d5 | 0.409 | 0.453 | 0.457 | 0.468 | 0.471 | 0.488 | 0.380 | 0.392 | 0.243 | 0.418 | 18.11 |
| 24) | M | Nitrobenzene | 0.152 | 0.164 | 0.172 | 0.181 | 0.174 | 0.173 | 0.141 | 0.114 | | 0.159 | 14.03 |
| 25) | T | Isophorone | 0.672 | 0.697 | 0.765 | 0.800 | 0.788 | 0.775 | 0.517 | 0.600 | | 0.702 | 14.44 |
| 26) | C | 2-Nitrophenol | 0.157 | 0.177 | 0.188 | 0.198 | 0.204 | 0.200 | 0.108 | 0.070 | | 0.163 | 30.10# |
| 27) | T | 2,4-Dimethylph... | 0.352 | 0.379 | 0.383 | 0.412 | 0.413 | 0.406 | 0.281 | 0.252 | | 0.360 | 17.14 |
| 28) | T | Bis(2-chloroet... | 0.409 | 0.413 | 0.430 | 0.424 | 0.421 | 0.407 | 0.368 | 0.348 | | 0.403 | 7.21 |
| 29) | T | Benzoic acid | 0.082 | 0.109 | 0.141 | 0.183 | 0.193 | 0.208 | | | | 0.152 | 32.91 |
| 30) | C | 2,4-Dichloroph... | 0.257 | 0.278 | 0.287 | 0.312 | 0.315 | 0.326 | 0.194 | 0.168 | | 0.267 | 21.75# |
| 31) | M | 1,2,4-Trichlor... | 0.346 | 0.342 | 0.346 | 0.380 | 0.384 | 0.412 | 0.316 | 0.379 | | 0.363 | 8.46 |
| 32) | | 4-Chlorophenol | 0.259 | 0.312 | 0.337 | 0.350 | 0.358 | 0.365 | | | | 0.330 | 12.05 |
| 33) | M | Naphthalene | 1.029 | 1.030 | 1.018 | 1.018 | 1.009 | 1.007 | 1.214 | 1.221 | 1.154 | 1.078 | 8.45 |
| 34) | T | 4-Chloroaniline | 0.364 | 0.399 | 0.422 | 0.431 | 0.432 | 0.444 | 0.280 | 0.261 | | 0.379 | 18.90 |
| 35) | | 2,6-Dichloroph... | 0.291 | 0.288 | 0.302 | 0.325 | 0.331 | 0.351 | 0.238 | 0.229 | | 0.295 | 14.66 |

Response Factor Report SVMS7

Method Path : E:\Methods\
Method File : 7S091818.M
Title : 8270/625/1311 Calibration

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36) | CM | Hexachlorobuta... | 0.215 | 0.213 | 0.213 | 0.228 | 0.237 | 0.251 | 0.200 | 0.205 | | 0.220 | 7.89 |
| 37) | T | Caprolactam | 0.077 | 0.108 | 0.140 | 0.145 | 0.140 | 0.148 | 0.043 | | | 0.114 | 35.52 |
| 38) | MC | 4-Chloro-3-met... | 0.277 | 0.310 | 0.330 | 0.341 | 0.340 | 0.340 | 0.229 | 0.167 | | 0.292 | 21.90# |
| 39) | | 2-Methylnaphth... | 0.681 | 0.671 | 0.707 | 0.722 | 0.721 | 0.745 | 0.635 | 0.666 | 0.517 | 0.674 | 10.09 |
| 40) | T | 1-Methylnaphth... | 0.680 | 0.655 | 0.665 | 0.677 | 0.685 | 0.697 | 0.656 | 0.654 | 0.719 | 0.677 | 3.24 |
| 41) | T | 1,1-Biphenyl | 0.861 | 0.844 | 0.864 | 0.926 | 0.900 | 0.956 | 0.807 | 0.837 | | 0.874 | 5.64 |
| 42) | | 2,3,5,6-Tetrac... | 0.156 | 0.165 | 0.189 | 0.203 | 0.211 | 0.242 | 0.093 | 0.070 | | 0.166 | 35.50 |
| 43) | | 2,3,4,6-Tetrac... | 0.182 | 0.187 | 0.201 | 0.216 | 0.220 | 0.258 | 0.157 | 0.147 | | 0.196 | 18.30 |
| 44) | | 1,3-Dinitroben... | 0.084 | 0.098 | 0.118 | 0.121 | 0.121 | 0.138 | 0.053 | 0.038 | | 0.097 | 36.84 |
| 45) | | 1,4-Dinitroben... | 0.116 | 0.125 | 0.136 | 0.138 | 0.138 | 0.154 | 0.079 | 0.065 | | 0.119 | 26.21 |
| 46) | | 1,2-Dinitroben... | 0.083 | 0.084 | 0.092 | 0.092 | 0.092 | 0.102 | 0.081 | 0.078 | | 0.088 | 8.94 |
| 47) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | | | |
| 48) | P | Hexachlorocycl... | 0.228 | 0.285 | 0.316 | 0.400 | 0.443 | 0.441 | 0.123 | 0.084 | | 0.290 | 47.51 |
| 49) | | 1,2,4,5-Tetrac... | 0.554 | 0.576 | 0.578 | 0.622 | 0.674 | 0.679 | 0.517 | 0.572 | | 0.597 | 9.58 |
| 50) | CM | 2,4,6-Trichlor... | 0.292 | 0.336 | 0.375 | 0.399 | 0.438 | 0.429 | 0.247 | 0.234 | | 0.344 | 23.12# |
| 51) | M | 2,4,5-Trichlor... | 0.363 | 0.371 | 0.379 | 0.419 | 0.442 | 0.451 | 0.275 | 0.237 | | 0.367 | 20.82 |
| 52) | S | 2-Fluorobiphenyl | 1.356 | 1.383 | 1.369 | 1.423 | 1.485 | 1.565 | 1.376 | 1.332 | 1.200 | 1.388 | 7.29 |
| 53) | T | 2-Chloronaphth... | 1.104 | 1.127 | 1.140 | 1.173 | 1.217 | 1.201 | 1.077 | 1.061 | 1.141 | 1.138 | 4.64 |
| 54) | T | 2-Nitroaniline | 0.305 | 0.372 | 0.419 | 0.437 | 0.433 | 0.430 | 0.212 | 0.218 | 0.044 | 0.319 | 42.86 |
| 55) | T | Dimethylphthalate | 1.396 | 1.350 | 1.421 | 1.431 | 1.418 | 1.475 | 1.184 | 1.153 | | 1.354 | 8.82 |
| 56) | M | Acenaphthylene | 1.643 | 1.725 | 1.783 | 1.814 | 1.841 | 1.838 | 1.449 | 1.406 | 1.383 | 1.653 | 11.58 |
| 57) | T | 2,6-Dinitrotol... | 0.272 | 0.293 | 0.314 | 0.323 | 0.324 | 0.333 | 0.193 | 0.215 | | 0.283 | 18.72 |
| 58) | T | 3-Nitroaniline | 0.252 | 0.286 | 0.325 | 0.317 | 0.307 | 0.315 | | | | 0.301 | 8.99 |
| 59) | MC | Acenaphthene | 1.077 | 1.068 | 1.191 | 1.128 | 1.127 | 1.157 | 1.030 | 1.027 | 0.971 | 1.086 | 6.47 |
| 60) | P | 2,4-Dinitrophenol | 0.083 | 0.130 | 0.167 | 0.202 | 0.201 | 0.240 | | | | 0.170 | 33.17 |
| 61) | T | Dibenzofuran | 1.636 | 1.655 | 1.674 | 1.700 | 1.733 | 1.769 | 1.492 | 1.587 | | 1.656 | 5.25 |
| 62) | MP | 4-Nitrophenol | 0.028 | 0.231 | 0.219 | 0.269 | 0.261 | 0.293 | | | | 0.217 | 44.50 |
| 63) | M | 2,4-Dinitrotol... | 0.337 | 0.390 | 0.417 | 0.424 | 0.429 | 0.461 | 0.211 | 0.233 | | 0.363 | 25.96 |
| 64) | T | Diethylphthalate | 1.436 | 1.400 | 1.481 | 1.455 | 1.469 | 1.524 | 1.202 | 1.180 | | 1.393 | 9.34 |
| 65) | M | Fluorene | 1.228 | 1.273 | 1.344 | 1.372 | 1.392 | 1.478 | 1.208 | 1.192 | 1.240 | 1.303 | 7.51 |
| 66) | T | 4-Chlorophenyl... | 0.669 | 0.663 | 0.675 | 0.709 | 0.748 | 0.793 | 0.600 | 0.697 | | 0.694 | 8.38 |
| 67) | T | 4-Nitroaniline | 0.199 | 0.310 | 0.353 | 0.329 | 0.317 | 0.339 | | | | 0.308 | 18.03 |
| 68) | T | Atrazine | 0.354 | 0.388 | 0.438 | 0.432 | 0.426 | 0.503 | 0.245 | 0.247 | | 0.379 | 24.44 |
| 69) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | | | |
| 70) | T | 4,6-Dinitro-2-... | 0.082 | 0.104 | 0.123 | 0.138 | 0.141 | 0.154 | 0.051 | | | 0.113 | 32.47 |
| 71) | C | N-Nitrosodiphe... | 0.581 | 0.587 | 0.615 | 0.655 | 0.663 | 0.668 | 0.475 | 0.429 | | 0.584 | 15.22 |
| 72) | T | 1,2-Diphenylhy... | 0.896 | 0.920 | 0.949 | 0.978 | 0.950 | 0.855 | 0.681 | 0.662 | | 0.861 | 14.28 |
| 73) | S | 2,4,6-Tribromo... | 0.088 | 0.100 | 0.105 | 0.123 | 0.134 | 0.158 | 0.077 | 0.071 | 0.045 | 0.100 | 34.48 |
| 74) | T | 4-Bromophenyl ... | 0.189 | 0.184 | 0.196 | 0.211 | 0.229 | 0.235 | 0.167 | 0.180 | | 0.199 | 12.16 |
| 75) | M | Hexachlorobenzene | 0.226 | 0.207 | 0.209 | 0.236 | 0.260 | 0.273 | 0.203 | 0.200 | | 0.227 | 12.17 |
| 76) | MC | Pentachlorophenol | 0.088 | 0.098 | 0.118 | 0.140 | 0.144 | 0.164 | 0.064 | 0.042 | | 0.107 | 39.13# |
| 77) | M | Phenanthrene | 1.037 | 1.043 | 1.066 | 1.108 | 1.124 | 1.167 | 1.065 | 1.053 | 1.348 | 1.112 | 8.83 |
| 78) | M | Anthracene | 0.964 | 1.011 | 1.079 | 1.121 | 1.156 | 1.199 | 0.897 | 0.790 | 0.871 | 1.010 | 13.84 |
| 79) | T | Carbazole | 0.867 | 0.926 | 0.978 | 1.017 | 0.968 | 1.062 | 0.670 | 0.593 | | 0.885 | 19.00 |
| 80) | T | Di-n-butylphth... | 0.946 | 1.037 | 1.243 | 1.286 | 1.253 | 1.314 | 0.651 | 0.607 | | 1.042 | 27.37 |

Response Factor Report SVMS7

Method Path : E:\Methods\
Method File : 7S091818.M
Title : 8270/625/1311 Calibration

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81) | CM | Fluoranthene | 1.037 | 1.089 | 1.184 | 1.260 | 1.212 | 1.386 | 0.886 | 0.861 | 0.834 | 1.083 | 17.94 |
| 82) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | | | |
| 83) | | 3,3-Dimethylbe... | 0.397 | 0.468 | 0.583 | 0.711 | 0.763 | 0.761 | 0.375 | 0.347 | | 0.551 | 32.10 |
| 84) | T | Benzidine | 0.337 | 0.433 | 0.549 | 0.661 | 0.701 | 0.695 | 0.287 | 0.200 | | 0.483 | 40.74 |
| 85) | M | Pyrene | 1.167 | 1.099 | 1.197 | 1.178 | 1.275 | 1.207 | 1.033 | 1.012 | 0.966 | 1.126 | 9.20 |
| 86) | S | 4-Terphenyl-d14 | 0.905 | 0.866 | 0.912 | 0.893 | 0.972 | 1.007 | 0.800 | 0.679 | 0.686 | 0.858 | 13.45 |
| 87) | T | Butylbenzylpht... | 0.372 | 0.448 | 0.564 | 0.593 | 0.586 | 0.580 | 0.248 | 0.249 | | 0.455 | 32.83 |
| 88) | M | Benzo[a]anthra... | 1.035 | 1.077 | 1.109 | 1.154 | 1.149 | 1.138 | 0.971 | 1.077 | 1.827 | 1.171 | 21.60 |
| 89) | T | 3,3'-Dichlorob... | 0.286 | 0.339 | 0.388 | 0.441 | 0.451 | 0.460 | 0.257 | 0.235 | | 0.357 | 25.39 |
| 90) | M | Chrysene | 1.154 | 1.122 | 1.148 | 1.166 | 1.168 | 1.180 | 1.089 | 1.226 | 1.256 | 1.168 | 4.31 |
| 91) | T | Bis(2-ethylhex... | 0.494 | 0.605 | 0.765 | 0.797 | 0.782 | 0.779 | 0.363 | 0.398 | | 0.623 | 29.44 |
| 92) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | | | |
| 93) | C | Di-n-octylphth... | 0.579 | 0.671 | 0.964 | 1.096 | 1.128 | 1.164 | 0.485 | 0.556 | | 0.830 | 34.40# |
| 94) | M | Benzo(b)fluora... | 0.902 | 0.985 | 1.108 | 1.141 | 1.191 | 1.172 | 0.686 | 0.636 | 0.616 | 0.938 | 25.32 |
| 95) | M | Benzo(k)fluora... | 1.053 | 1.064 | 1.152 | 1.197 | 1.225 | 1.210 | 0.809 | 0.800 | 0.697 | 1.023 | 19.76 |
| 96) | CM | Benzo(a)pyrene | 0.843 | 0.922 | 1.050 | 1.142 | 1.145 | 1.150 | 0.648 | 0.629 | 0.602 | 0.903 | 25.74# |
| 97) | M | Indeno(1,2,3-c... | 0.817 | 0.922 | 1.015 | 1.141 | 1.158 | 1.159 | 0.629 | 0.831 | 1.027 | 0.966 | 18.91 |
| 98) | M | Dibenz(a,h)ant... | 0.955 | 1.034 | 1.117 | 1.238 | 1.257 | 1.246 | 0.747 | 0.679 | 0.733 | 1.001 | 23.40 |
| 99) | M | Benzo(g,h,i)pe... | 1.001 | 1.085 | 1.161 | 1.269 | 1.272 | 1.249 | 0.819 | 0.736 | 0.907 | 1.056 | 19.08 |

(#) = Out of Range

# Partial Calibration Report SVMS7

Method Path : E:\Methods\
Method File : 7S091818.M
Title : 8270/625/1311 Calibration
Last Update : Thu Sep 20 14:12:06 2018
Response Via : Initial Calibration

Calibration Files
5 =09181811 10 =09181812 20 =09181813 40 =09181814 50 =09181815 60 =09181816 1
=09181810
0.5 =09181809 0.1 =09181808

| | | Compound | Fit | Constant | Linear | Quad | RSD/Cf |
|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenz... | | ----------ISTD---------- | | | |
| 2) | M | Pyridine | Quad | -0.0088 | 1.0846 | -0.1273 | 0.9990 |
| 3) | T | 1,4-Dioxane | Quad | 0.0024 | 0.4850 | -0.0822 | 0.9987 |
| 5) | S | 2-Fluorophenol | Quad | -0.0022 | 0.7660 | -0.0265 | 0.9989 |
| 7) | S | Phenol-d6 | Quad | -0.0054 | 0.9872 | -0.0555 | 0.9996 |
| 8) | MC | Phenol | Quad | -0.0051 | 1.0913 | -0.1048 | 0.9990 |
| 9) | T | Aniline | Quad | -0.0113 | 1.3128 | -0.1427 | 0.9985 |
| 10) | T | Bis(2-chloroethy... | Quad | 0.0019 | 0.9428 | -0.1319 | 0.9995 |
| 11) | MT | 2-Chlorophenol | Quad | -0.0046 | 0.8736 | -0.0880 | 0.9996 |
| 12) | T | 1,3-Dichlorobenzene | Quad | -0.0009 | 0.9744 | -0.0792 | 0.9999 |
| 13) | MC | 1,4-Dichlorobenzene | Quad | 0.0010 | 0.9915 | -0.0702 | 0.9996 |
| 14) | T | Benzyl alcohol | Quad | -0.0042 | 0.5031 | -0.0161 | 0.9988 |
| 15) | T | 1,2-Dichlorobenzene | Quad | 0.0010 | 0.9344 | -0.0759 | 0.9999 |
| 17) | T | Dichloroisopropy... | Quad | -0.0009 | 1.0931 | -0.1554 | 0.9988 |
| 20) | MP | N-Nitrosodi-n-pr... | Quad | -0.0042 | 0.7642 | -0.0673 | 0.9990 |
| 21) | M | Hexachloroethane | Quad | -0.0007 | 0.4669 | -0.0537 | 0.9997 |
| 22) | I | Naphthalene-d8 | | ----------ISTD---------- | | | |
| 23) | S | Nitrobenzene-d5 | Quad | -0.0011 | 0.4388 | 0.0310 | 0.9998 |
| 24) | M | Nitrobenzene | Quad | -0.0009 | 0.1720 | 0.0027 | 0.9992 |
| 25) | T | Isophorone | Quad | -0.0036 | 0.7432 | 0.0334 | 0.9991 |
| 26) | C | 2-Nitrophenol | Quad | -0.0017 | 0.1825 | 0.0151 | 0.9995 |
| 27) | T | 2,4-Dimethylphenol | Quad | -0.0021 | 0.3837 | 0.0206 | 0.9996 |
| 29) | T | Benzoic acid | Quad | -0.0074 | 0.1295 | 0.0562 | 0.9997 |
| 30) | C | 2,4-Dichlorophenol | Quad | -0.0016 | 0.2730 | 0.0365 | 0.9999 |
| 33) | M | Naphthalene | Quad | 0.0009 | 1.0345 | -0.0195 | 0.9998 |
| 34) | T | 4-Chloroaniline | Quad | -0.0023 | 0.4027 | 0.0280 | 0.9998 |
| 35) | | 2,6-Dichlorophenol | Quad | -0.0007 | 0.2804 | 0.0453 | 0.9999 |
| 37) | T | Caprolactam | Quad | -0.0027 | 0.1252 | 0.0169 | 0.9967 |
| 38) | MC | 4-Chloro-3-methy... | Quad | -0.0023 | 0.3206 | 0.0161 | 0.9996 |
| 39) | | 2-Methylnaphthalene | Quad | -0.0004 | 0.6753 | 0.0438 | 0.9999 |
| 40) | T | 1-Methylnaphthalene | Quad | 0.0002 | 0.6512 | 0.0286 | 0.9999 |
| 42) | | 2,3,5,6-Tetrachl... | Quad | -0.0012 | 0.1552 | 0.0534 | 0.9986 |
| 43) | | 2,3,4,6-Tetrachl... | Quad | -0.0002 | 0.1680 | 0.0527 | 0.9979 |
| 44) | | 1,3-Dinitrobenzene | Quad | -0.0009 | 0.0978 | 0.0248 | 0.9979 |
| 45) | | 1,4-Dinitrobenzene | Quad | -0.0008 | 0.1223 | 0.0185 | 0.9987 |
| 46) | | 1,2-Dinitrobenzene | Quad | -0.0001 | 0.0827 | 0.0108 | 0.9989 |
| 47) | I | Acenaphthene-d10 | | ----------ISTD---------- | | | |
| 48) | P | Hexachlorocyclop... | Quad | -0.0030 | 0.2669 | 0.1277 | 0.9985 |
| 49) | | 1,2,4,5-Tetrachl... | Quad | 0.0002 | 0.5349 | 0.0991 | 0.9997 |
| 50) | CM | 2,4,6-Trichlorop... | Quad | -0.0018 | 0.3332 | 0.0717 | 0.9990 |
| 51) | M | 2,4,5-Trichlorop... | Quad | -0.0016 | 0.3576 | 0.0646 | 0.9999 |
| 52) | S | 2-Fluorobiphenyl | Quad | 0.0003 | 1.2903 | 0.1669 | 0.9996 |
| 54) | T | 2-Nitroaniline | Quad | -0.0014 | 0.3796 | 0.0416 | 0.9978 |
| 56) | M | Acenaphthylene | Quad | -0.0018 | 1.7131 | 0.0936 | 0.9998 |
| 57) | T | 2,6-Dinitrotoluene | Quad | -0.0017 | 0.2973 | 0.0247 | 0.9997 |
| 58) | T | 3-Nitroaniline | Quad | -0.0123 | 0.3502 | -0.0207 | 0.9993 |
| 60) | P | 2,4-Dinitrophenol | Quad | -0.0083 | 0.1467 | 0.0604 | 0.9969 |
| 62) | MP | 4-Nitrophenol | Quad | -0.0164 | 0.2345 | 0.0427 | 0.9953 |
| 63) | M | 2,4-Dinitrotoluene | Quad | -0.0027 | 0.3806 | 0.0498 | 0.9992 |
| 66) | T | 4-Chlorophenyl p... | Quad | 0.0009 | 0.6145 | 0.1112 | 0.9996 |
| 67) | T | 4-Nitroaniline | Quad | -0.0223 | 0.3983 | -0.0381 | 0.9970 |

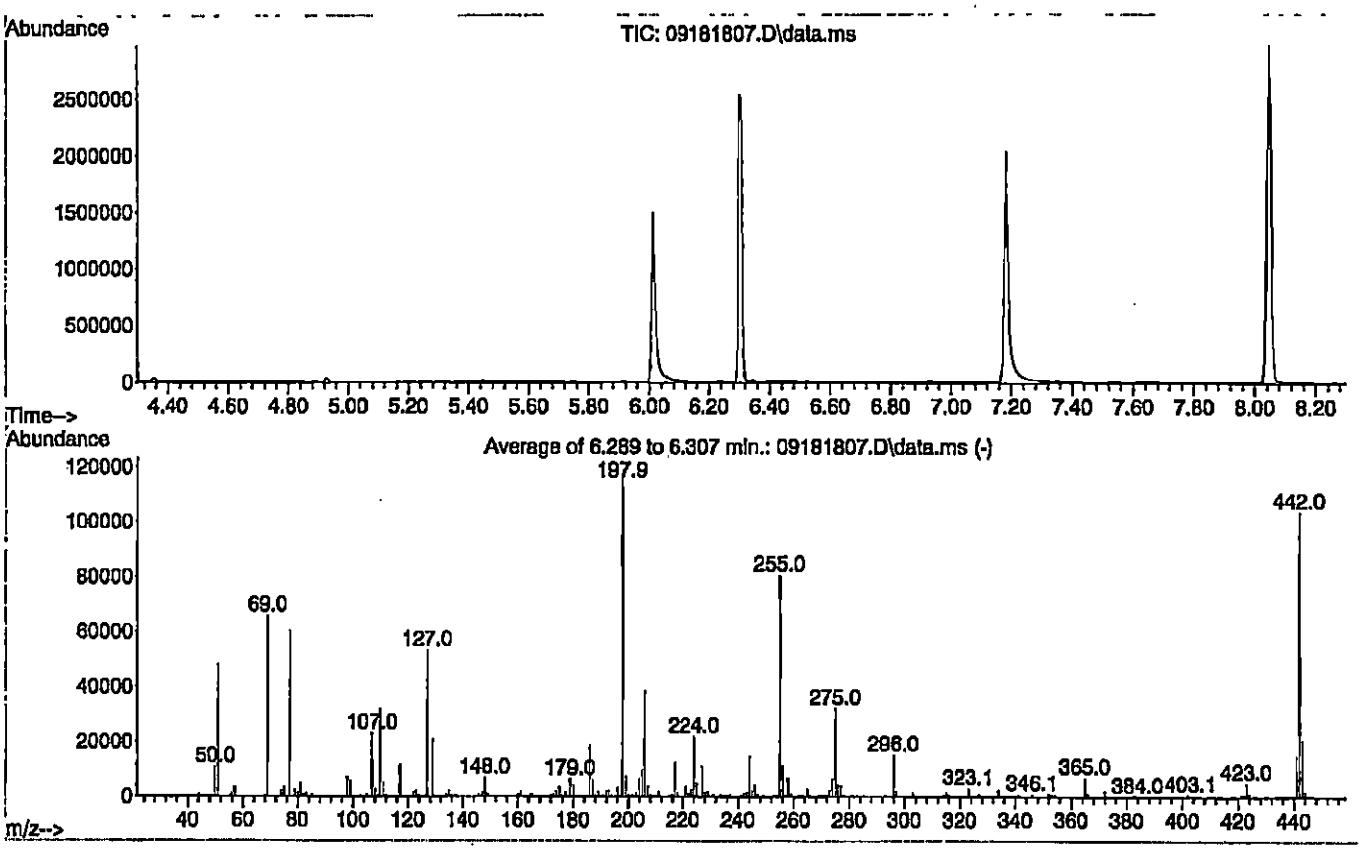
Method Path : E:\Methods\
Method File : 7S091818.M
Title : 8270/625/1311 Calibration

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 68) | T | Atrazine | Quad | -0.0021 | 0.3725 | 0.0719 | 0.9964 |
| 69) | I | Phenanthrene-d10 | | ----------ISTD---------- | | | |
| 70) | T | 4,6-Dinitro-2-me... | Quad | -0.0016 | 0.1042 | 0.0333 | 0.9992 |
| 71) | C | N-Nitrosodipheny... | Quad | -0.0025 | 0.5960 | 0.0526 | 0.9999 |
| 72) | T | 1,2-Diphenylhydr... | Quad | -0.0064 | 1.0160 | -0.0772 | 0.9978 |
| 73) | S | 2,4,6-Tribromoph... | Quad | -0.0001 | 0.0796 | 0.0484 | 0.9983 |
| 74) | T | 4-Bromophenyl ph... | Quad | 0.0000 | 0.1751 | 0.0406 | 0.9998 |
| 75) | M | Hexachlorobenzene | Quad | 0.0004 | 0.1861 | 0.0567 | 0.9992 |
| 76) | MC | Pentachlorophenol | Quad | -0.0007 | 0.0918 | 0.0467 | 0.9993 |
| 78) | M | Anthracene | Quad | -0.0008 | 0.9821 | 0.1432 | 0.9998 |
| 79) | T | Carbazole | Quad | -0.0050 | 0.9259 | 0.0772 | 0.9989 |
| 80) | T | Di-n-butylphthalate | Quad | -0.0093 | 1.1240 | 0.1323 | 0.9986 |
| 81) | CM | Fluoranthene | Quad | -0.0010 | 1.0379 | 0.2042 | 0.9982 |
| 82) | I | Chrysene-d12 | | ----------ISTD---------- | | | |
| 83) | | 3,3-Dimethylbenz... | Quad | -0.0027 | 0.4724 | 0.2132 | 0.9980 |
| 84) | T | Benzidine | Quad | -0.0044 | 0.4514 | 0.1837 | 0.9974 |
| 86) | S | 4-Terphenyl-d14 | Quad | -0.0011 | 0.8397 | 0.1023 | 0.9991 |
| 87) | T | Butylbenzylphtha... | Quad | -0.0052 | 0.5081 | 0.0619 | 0.9969 |
| 88) | M | Benzo[a]anthracene | Quad | 0.0012 | 1.0707 | 0.0558 | 0.9996 |
| 89) | T | 3,3'-Dichloroben... | Quad | -0.0020 | 0.3415 | 0.0859 | 0.9990 |
| 91) | T | Bis(2-ethylhexyl... | Quad | -0.0063 | 0.6833 | 0.0813 | 0.9966 |
| 92) | I | Perylene-d12 | | ----------ISTD---------- | | | |
| 93) | C | Di-n-octylphthalate | Quad | -0.0055 | 0.7485 | 0.3010 | 0.9970 |
| 94) | M | Benzo(b)fluorant... | Quad | -0.0022 | 0.9971 | 0.1352 | 0.9988 |
| 95) | M | Benzo(k)fluorant... | Quad | -0.0019 | 1.0836 | 0.0995 | 0.9994 |
| 96) | CM | Benzo(a)pyrene | Quad | -0.0020 | 0.9406 | 0.1584 | 0.9986 |
| 97) | M | Indeno(1,2,3-cd)... | Quad | -0.0006 | 0.9051 | 0.1904 | 0.9987 |
| 98) | M | Dibenz(a,h)anthr... | Quad | -0.0019 | 1.0289 | 0.1675 | 0.9989 |
| 99) | M | Benzo(g,h,i)pery... | Quad | -0.0017 | 1.0912 | 0.1296 | 0.9988 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181807.D
Acq On : 18 Sep 2018 3:40 pm
Operator : EB
Sample : 50 UG/ML DFTPP
Misc : 300-0195
ALS Vial : 3 Sample Multiplier: 1

Integration File: 8270.P

Method : E:\Methods\7S091818.M
Title : 8270/625/1311 Calibration
Last Update : Thu Sep 20 14:12:06 2018




Spectrum Information: Average of 6.289 to 6.307 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 41.2 | 48319 | PASS |
| 68 | 69 | 0.00 | 2 | 1.2 | 757 | PASS |
| 69 | 198 | 0.00 | 100 | 56.1 | 65822 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 385 | PASS |
| 127 | 198 | 10 | 80 | 45.5 | 53366 | PASS |
| 197 | 198 | 0.00 | 1 | 0.6 | 707 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 117397 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 7774 | PASS |
| 275 | 198 | 10 | 60 | 27.5 | 32268 | PASS |
| 365 | 198 | 1 | 100 | 6.0 | 7031 | PASS |
| 441 | 443 | 0.01 | 100 | 73.6 | 15346 | PASS |
| 442 | 198 | 50 | 100 | 88.5 | 103923 | PASS |
| 443 | 442 | 15 | 24 | 20.1 | 20858 | PASS |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181808.D
Acq On : 18 Sep 2018 4:01 pm
Operator : EB
Sample : 0.1ug/ml BNA
Misc : 300-0390A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 16:19:10 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

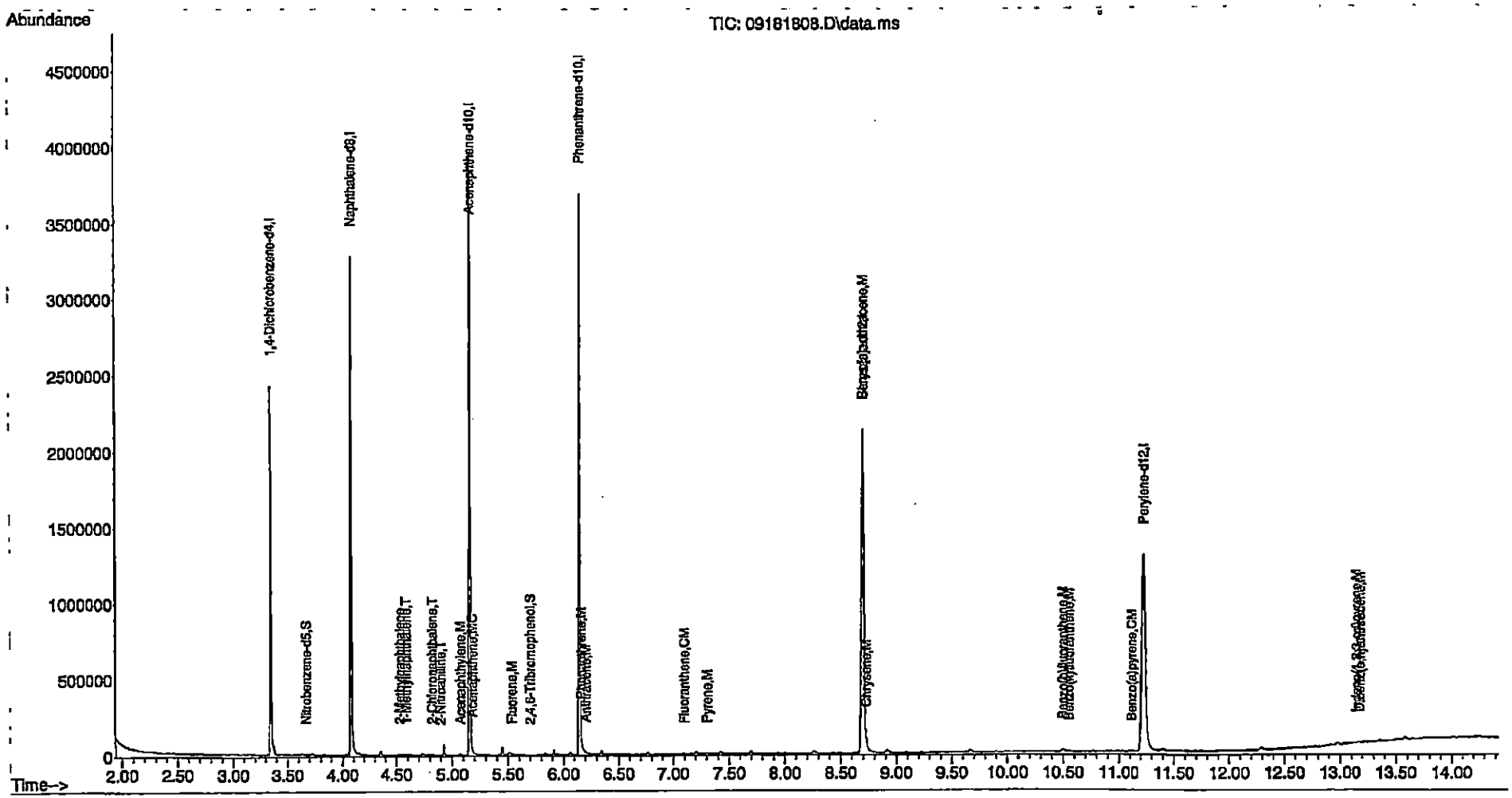
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 394094 | 40.00 ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 934712 | 40.00 ug/ml | -0.02 |
| 46) Acenaphthene-d10 | 5.154 | 164 | 556309 | 40.00 ug/ml | -0.02 |
| 68) Phenanthrene-d10 | 6.142 | 188 | 1028785 | 40.00 ug/ml | -0.02 |
| 81) Chrysene-d12 | 8.695 | 240 | 1010891 | 40.00 ug/ml | -0.04 |
| 91) Perylene-d12 | 11.224 | 264 | 1079218 | 40.00 ug/ml | -0.05 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.719 | 112 | 1509m | -0.13 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = -0.26%# | | |
| 7) Phenol-d6 | 3.160 | 99 | 660m | -0.15 ug/ml | 0.02 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = -0.30%# | | |
| 23) Nitrobenzene-d5 | 3.666 | 82 | 1420 | 0.05 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 0.10%# | | |
| 51) 2-Fluorobiphenyl | 4.731 | 172 | 4174 | -1.00 ug/ml | -0.01 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = -2.00%# | | |
| 72) 2,4,6-Tribromophenol | 5.695 | 330 | 292 | 0.02 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 0.04%# | | |
| 85) 4-Terphenyl-d14 | 7.425 | 244 | 4336 | -1.00 ug/ml | -0.01 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = -2.00%# | | |
| **Target Compounds** | | | | | Qvalue |
| 32) Naphthalene | 4.090 | 128 | 2696 | Below Cal # | 1 |
| 38) 2-Methylnaphthalene | 4.531 | 142 | 1207 | 0.14 ug/ml | 88 |
| 39) 1-Methylnaphthalene | 4.584 | 142 | 1681 | 0.10 ug/ml | 91 |
| 52) 2-Chloronaphthalene | 4.819 | 162 | 1587m | 0.37 ug/ml | |
| 53) 2-Nitroaniline | 4.895 | 65 | 61 | 0.01 ug/ml# | 10 |
| 55) Acenaphthylene | 5.072 | 152 | 1923 | 0.69 ug/ml | 85 |
| 58) Acenaphthene | 5.178 | 154 | 1351 | 0.52 ug/ml# | 76 |
| 64) Fluorene | 5.531 | 166 | 1725 | 0.52 ug/ml | 99 |
| 76) Phenanthrene | 6.160 | 178 | 3468 | 0.34 ug/ml | 70 |
| 77) Anthracene | 6.201 | 178 | 2241 | 1.10 ug/ml | 81 |
| 80) Fluoranthene | 7.095 | 202 | 2146 | 0.96 ug/ml | 92 |
| 84) Pyrene | 7.301 | 202 | 2442 | 0.07 ug/ml | 89 |
| 87) Benzo[a]anthracene | 8.695 | 228 | 4616 | 0.11 ug/ml | 35 |
| 89) Chrysene | 8.725 | 228 | 3175m | 0.19 ug/ml | |
| 93) Benzo(b)fluoranthene | 10.495 | 252 | 1663 | 0.07 ug/ml | 80 |
| 94) Benzo(k)fluoranthene | 10.548 | 252 | 1880m | 0.08 ug/ml | |
| 95) Benzo(a)pyrene | 11.113 | 252 | 1625m | 0.11 ug/ml | |
| 96) Indeno(1,2,3-cd)pyrene | 13.142 | 276 | 2770m | 0.08 ug/ml | |
| 97) Dibenz(a,h)anthracene | 13.177 | 278 | 1978m | 0.05 ug/ml | |
| 98) Benzo(g,h,i)perylene | 13.518 | 276 | 2447m | Below Cal | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181808.D
Acq On : 18 Sep 2018 4:01 pm
Operator : EB
Sample : 0.1ug/ml BNA
Misc : 300-0390A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 16:19:10 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181809.D
Acq On : 18 Sep 2018 4:21 pm
Operator : EB
Sample : 0.5ug/ml BNA
Misc : 300-0390B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 19 07:35:13 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 400707 | 40.00 ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1003458 | 40.00 ug/ml | -0.02 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 609771 | 40.00 ug/ml | -0.02 |
| 69) Phenanthrene-d10 | 6.142 | 188 | 1168874 | 40.00 ug/ml | -0.02 |
| 82) Chrysene-d12 | 8.689 | 240 | 1074629 | 40.00 ug/ml | -0.05 |
| 92) Perylene-d12 | 11.219 | 264 | 1087044 | 40.00 ug/ml | -0.06 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.696 | 112 | 2696 | 0.02 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 0.04%# | | |
| 7) Phenol-d6 | 3.154 | 99 | 2705 | 0.05 ug/ml | 0.01 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 0.10%# | | |
| 23) Nitrobenzene-d5 | 3.660 | 82 | 4912 | 0.37 ug/ml | -0.01 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 0.74%# | | |
| 52) 2-Fluorobiphenyl | 4.725 | 172 | 10155 | 0.15 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 0.30%# | | |
| 73) 2,4,6-Tribromophenol | 5.684 | 330 | 1040 | 0.35 ug/ml | -0.01 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 0.70%# | | |
| 86) 4-Terphenyl-d14 | 7.413 | 244 | 9127 | 0.18 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 0.36%# | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Pyridine | 2.225 | 79 | 2297 | 0.24 ug/ml# | 55 |
| 3) 1,4-Dioxane | 2.043 | 88 | 3711 | 0.28 ug/ml# | 74 |
| 4) N-Nitrosodimethylamine | 2.166 | 42 | 2699 | 0.37 ug/ml# | 70 |
| 6) Benzaldehyde | 3.125 | 77 | 2114 | 1.34 ug/ml# | 83 |
| 8) Phenol | 3.154 | 94 | 3986 | 0.59 ug/ml | 85 |
| 9) Aniline | 3.184 | 93 | 2809m | 0.35 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 5749m | 0.75 ug/ml | |
| 11) 2-Chlorophenol | 3.248 | 128 | 2966 | 0.51 ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 4399 | 0.44 ug/ml | 94 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 5525m | 0.56 ug/ml | |
| 14) Benzyl alcohol | 3.431 | 108 | 1340 | 0.68 ug/ml# | 60 |
| 15) 1,2-Dichlorobenzene | 3.443 | 146 | 5150 | 0.54 ug/ml | 97 |
| 16) 2-Methylphenol | 3.472 | 107 | 2803 | 0.34 ug/ml | 79 |
| 17) Dichloroisopropyl ether | 3.484 | 45 | 5219 | 0.42 ug/ml | 88 |
| 19) Acetophenone | 3.572 | 105 | 6453 | 0.32 ug/ml# | 94 |
| 20) N-Nitrosodi-n-propylamine | 3.554 | 70 | 2472 | 0.75 ug/ml | 92 |
| 21) Hexachloroethane | 3.631 | 117 | 2073 | 0.60 ug/ml | 83 |
| 24) Nitrobenzene | 3.672 | 123 | 1434 | 0.38 ug/ml# | 13 |
| 25) Isophorone | 3.795 | 82 | 7529 | 0.47 ug/ml | 91 |
| 26) 2-Nitrophenol | 3.860 | 139 | 882 | 0.25 ug/ml | 93 |
| 27) 2,4-Dimethylphenol | 3.884 | 107 | 3159 | 0.39 ug/ml | 94 |
| 28) Bis(2-chloroethoxy)met... | 3.931 | 93 | 4363 | 0.77 ug/ml | 88 |
| 30) 2,4-Dichlorophenol | 4.031 | 162 | 2105 | 0.27 ug/ml | 96 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 4752 | 0.81 ug/ml | 90 |
| 33) Naphthalene | 4.084 | 128 | 15316 | 0.41 ug/ml# | 43 |
| 34) 4-Chloroaniline | 4.154 | 127 | 3268 | 0.30 ug/ml | 95 |
| 35) 2,6-Dichlorophenol | 4.143 | 162 | 2874 | 0.75 ug/ml | 95 |
| 36) Hexachlorobutadiene | 4.148 | 225 | 2569 | 0.79 ug/ml | 99 |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181809.D
Acq On : 18 Sep 2018 4:21 pm
Operator : EB
Sample : 0.5ug/ml BNA
Misc : 300-0390B
ALS Vial : 5 Sample Multiplier: 1

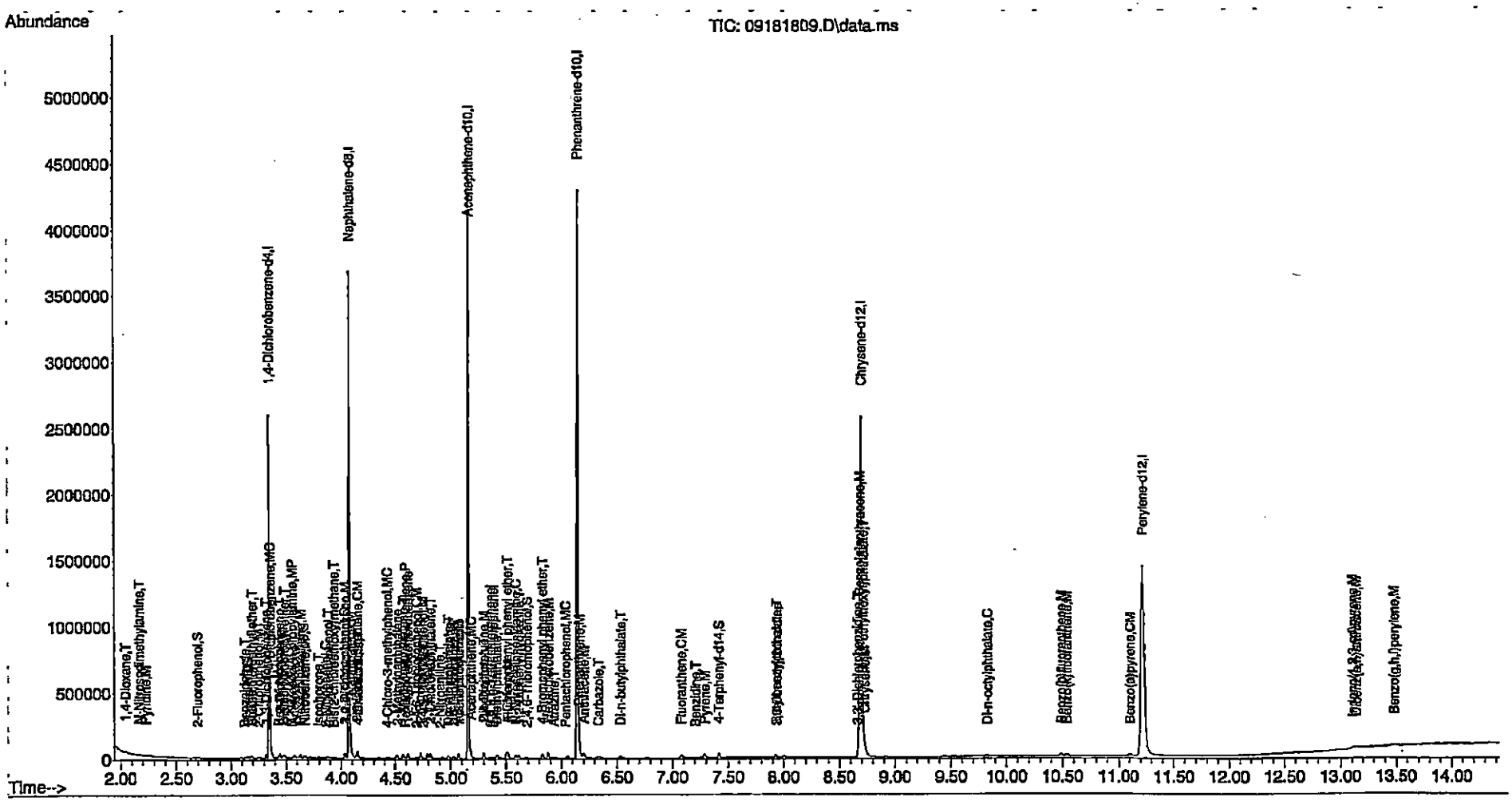
Quant Time: Sep 19 07:35:13 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 38) 4-Chloro-3-methylphenol | 4.425 | 107 | 2093 | 0.27 ug/ml | 83 |
| 39) 2-Methylnaphthalene | 4.519 | 142 | 8351 | 0.51 ug/ml | 95 |
| 40) 1-Methylnaphthalene | 4.572 | 142 | 8205 | 0.47 ug/ml | 93 |
| 41) 1,1-Biphenyl | 4.790 | 154 | 10494 | 0.61 ug/ml | 98 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.354 | 232 | 878 | 0.46 ug/ml | 84 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.378 | 232 | 1846m | 0.40 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.990 | 168 | 477 | 0.35 ug/ml# | 1 |
| 45) 1,4-Dinitrobenzene | 5.031 | 168 | 816m | 0.38 ug/ml | |
| 46) 1,2-Dinitrobenzene | 5.072 | 168 | 980m | 0.60 ug/ml | |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 644 | 0.17 ug/ml# | 81 |
| 49) 1,2,4,5-Tetrachloroben... | 4.613 | 216 | 4362 | 0.80 ug/ml | 94 |
| 50) 2,4,6-Trichlorophenol | 4.690 | 196 | 1786 | 0.27 ug/ml | 75 |
| 51) 2,4,5-Trichlorophenol | 4.748 | 196 | 1808m | 0.27 ug/ml | |
| 53) 2-Chloronaphthalene | 4.813 | 162 | 8090 | 0.68 ug/ml | 95 |
| 54) 2-Nitroaniline | 4.901 | 65 | 1663 | 0.35 ug/ml | 82 |
| 55) Dimethylphthalate | 4.978 | 163 | 8792 | 0.83 ug/ml | 93 |
| 56) Acenaphthylene | 5.072 | 152 | 10713 | 0.96 ug/ml | 98 |
| 57) 2,6-Dinitrotoluene | 5.025 | 165 | 1640 | 0.41 ug/ml | 95 |
| 59) Acenaphthene | 5.178 | 154 | 7830m | 0.81 ug/ml | |
| 61) Dibenzofuran | 5.295 | 168 | 12095 | 0.64 ug/ml | 96 |
| 63) 2,4-Dinitrotoluene | 5.295 | 165 | 1776 | 0.36 ug/ml# | 78 |
| 64) Diethylphthalate | 5.413 | 149 | 8992 | 0.42 ug/ml | 99 |
| 65) Fluorene | 5.513 | 166 | 9085 | 0.81 ug/ml | 93 |
| 66) 4-Chlorophenyl phenyl ... | 5.507 | 204 | 5314 | 0.84 ug/ml | 99 |
| 68) Atrazine | 5.931 | 200 | 1880 | 0.87 ug/ml | 89 |
| 71) N-Nitrosodiphenylamine | 5.584 | 169 | 6267 | 0.84 ug/ml | 95 |
| 72) 1,2-Diphenylhydrazine | 5.613 | 77 | 9672 | 1.26 ug/ml | 97 |
| 74) 4-Bromophenyl phenyl e... | 5.825 | 248 | 2637 | 0.97 ug/ml | 96 |
| 75) Hexachlorobenzene | 5.878 | 284 | 2920 | 0.89 ug/ml | 81 |
| 76) Pentachlorophenol | 6.037 | 266 | 613 | 0.22 ug/ml | 84 |
| 77) Phenanthrene | 6.160 | 178 | 15390 | 0.66 ug/ml | 91 |
| 78) Anthracene | 6.201 | 178 | 11547 | 1.35 ug/ml | 94 |
| 79) Carbazole | 6.331 | 167 | 8658 | 0.30 ug/ml | 92 |
| 80) Di-n-butylphthalate | 6.531 | 149 | 8876 | 0.40 ug/ml | 98 |
| 81) Fluoranthene | 7.078 | 202 | 12575 | 1.20 ug/ml | 96 |
| 83) 3,3-Dimethylbenzidine | 7.936 | 212 | 4663 | 0.51 ug/ml | 94 |
| 84) Benzidine | 7.207 | 184 | 2680 | 0.35 ug/ml | 90 |
| 85) Pyrene | 7.289 | 202 | 13594 | 0.43 ug/ml | 93 |
| 87) Butylbenzylphthalate | 7.931 | 149 | 3339 | 0.44 ug/ml | 98 |
| 88) Benzo[a]anthracene | 8.678 | 228 | 14472 | 0.45 ug/ml | 91 |
| 89) 3,3'-Dichlorobenzidine | 8.660 | 252 | 3158 | 0.43 ug/ml# | 84 |
| 90) Chrysene | 8.725 | 228 | 16466 | 0.58 ug/ml# | 92 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 5348 | 0.47 ug/ml | 62 |
| 93) Di-n-octylphthalate | 9.825 | 149 | 7556 | 0.42 ug/ml | 94 |
| 94) Benzo(b)fluoranthene | 10.489 | 252 | 8641 | 0.31 ug/ml | 85 |
| 95) Benzo(k)fluoranthene | 10.536 | 252 | 10877 | 0.36 ug/ml | 96 |
| 96) Benzo(a)pyrene | 11.101 | 252 | 8547 | 0.40 ug/ml | 87 |
| 97) Indeno(1,2,3-cd)pyrene | 13.107 | 276 | 11286 | 0.39 ug/ml | 86 |
| 98) Dibenz(a,h)anthracene | 13.142 | 278 | 9221 | 0.27 ug/ml | 97 |
| 99) Benzo(g,h,i)perylene | 13.477 | 276 | 10007 | 0.21 ug/ml | 93 |

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181809.D
Acq On : 18 Sep 2018 4:21 pm
Operator : EB
Sample : 0.5ug/ml BNA
Misc : 300-0390B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 19 07:35:13 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181810.D
Acq On : 18 Sep 2018 4:42 pm
Operator : EB
Sample : 1.0ug/ml BNA
Misc : 300-0390C
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 07:35:18 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.348 | 150 | 408004 | 40.00 | ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1022872 | 40.00 | ug/ml | -0.02 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 602080 | 40.00 | ug/ml | -0.02 |
| 69) Phenanthrene-d10 | 6.142 | 188 | 1100644 | 40.00 | ug/ml | -0.02 |
| 82) Chrysene-d12 | 8.689 | 240 | 1003739 | 40.00 | ug/ml | -0.05 |
| 92) Perylene-d12 | 11.213 | 264 | 1093326 | 40.00 | ug/ml | -0.06 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.696 | 112 | 6045 | 0.42 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery | = | 0.84%# | |
| 7) Phenol-d6 | 3.137 | 99 | 6966 | 0.45 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery | = | 0.90%# | |
| 23) Nitrobenzene-d5 | 3.660 | 82 | 9719 | 0.80 | ug/ml | -0.01 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery | = | 1.60%# | |
| 52) 2-Fluorobiphenyl | 4.725 | 172 | 20708 | 0.65 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery | = | 1.30%# | |
| 73) 2,4,6-Tribromophenol | 5.678 | 330 | 2120 | 0.90 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery | = | 1.80%# | |
| 86) 4-Terphenyl-d14 | 7.407 | 244 | 20067 | 0.69 | ug/ml | -0.03 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery | = | 1.38%# | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Pyridine | 2.207 | 79 | 7112 | 0.73 | ug/ml | 87 |
| 3) 1,4-Dioxane | 2.043 | 88 | 5682 | 0.73 | ug/ml | 92 |
| 4) N-Nitrosodimethylamine | 2.160 | 42 | 5537 | 0.89 | ug/ml | 83 |
| 6) Benzaldehyde | 3.131 | 77 | 5958 | 1.91 | ug/ml# | 82 |
| 8) Phenol | 3.148 | 94 | 8853 | 0.97 | ug/ml | 86 |
| 9) Aniline | 3.178 | 93 | 8541m | 0.71 | ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 9732m | 1.20 | ug/ml | |
| 11) 2-Chlorophenol | 3.243 | 128 | 6522 | 0.88 | ug/ml | 97 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 9915 | 0.96 | ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 10350m | 0.99 | ug/ml | |
| 14) Benzyl alcohol | 3.425 | 108 | 2801 | 0.94 | ug/ml# | 67 |
| 15) 1,2-Dichlorobenzene | 3.443 | 146 | 9608 | 0.97 | ug/ml | 99 |
| 16) 2-Methylphenol | 3.472 | 107 | 5174 | 0.67 | ug/ml# | 78 |
| 17) Dichloroisopropyl ether | 3.478 | 45 | 10857 | 0.82 | ug/ml | 93 |
| 18) 3&4-Methylphenol | 3.554 | 107 | 7134m | 0.78 | ug/ml | |
| 19) Acetophenone | 3.572 | 105 | 12686 | 0.80 | ug/ml | 96 |
| 20) N-Nitrosodi-n-propylamine | 3.554 | 70 | 5899 | 1.22 | ug/ml | 93 |
| 21) Hexachloroethane | 3.631 | 117 | 4446 | 1.16 | ug/ml | 95 |
| 24) Nitrobenzene | 3.672 | 123 | 3605 | 0.90 | ug/ml | 88 |
| 25) Isophorone | 3.795 | 82 | 13213 | 0.84 | ug/ml | 95 |
| 26) 2-Nitrophenol | 3.848 | 139 | 2758 | 0.72 | ug/ml | 75 |
| 27) 2,4-Dimethylphenol | 3.866 | 107 | 7181 | 0.90 | ug/ml | 96 |
| 28) Bis(2-chloroethoxy)met... | 3.925 | 93 | 9420 | 1.18 | ug/ml | 95 |
| 30) 2,4-Dichlorophenol | 4.019 | 162 | 4965 | 0.68 | ug/ml | 94 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 8084 | 1.17 | ug/ml | 92 |
| 33) Naphthalene | 4.084 | 128 | 31041 | 0.98 | ug/ml | 71 |
| 34) 4-Chloroaniline | 4.131 | 127 | 7168 | 0.66 | ug/ml | 92 |
| 35) 2,6-Dichlorophenol | 4.131 | 162 | 6091 | 1.13 | ug/ml | 93 |

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181810.D
Acq On : 18 Sep 2018 4:42 pm
Operator : EB
Sample : 1.0ug/ml BNA
Misc : 300-0390C
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 07:35:18 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 36) Hexachlorobutadiene | 4.148 | 225 | 5103 | 1.24 ug/ml | 97 |
| 37) Caprolactam | 4.354 | 55 | 1095m | 0.62 ug/ml | |
| 38) 4-Chloro-3-methylphenol | 4.413 | 107 | 5852 | 0.75 ug/ml | 87 |
| 39) 2-Methylnaphthalene | 4.507 | 142 | 16246 | 0.92 ug/ml | 89 |
| 40) 1-Methylnaphthalene | 4.566 | 142 | 16782 | 0.94 ug/ml | 93 |
| 41) 1,1-Biphenyl | 4.790 | 154 | 20639 | 1.02 ug/ml# | 95 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.348 | 232 | 2389 | 0.77 ug/ml# | 86 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.372 | 232 | 4004m | 0.83 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.978 | 168 | 1366 | 0.76 ug/ml# | 55 |
| 45) 1,4-Dinitrobenzene | 5.019 | 168 | 2023 | 0.82 ug/ml | 92 |
| 46) 1,2-Dinitrobenzene | 5.060 | 168 | 2062 | 1.14 ug/ml | 95 |
| 48) Hexachlorocyclopentadiene | 4.595 | 237 | 1856 | 0.51 ug/ml | 93 |
| 49) 1,2,4,5-Tetrachloroben... | 4.613 | 216 | 7785 | 1.12 ug/ml | 98 |
| 50) 2,4,6-Trichlorophenol | 4.684 | 196 | 3717 | 0.63 ug/ml | 91 |
| 51) 2,4,5-Trichlorophenol | 4.725 | 196 | 4139m | 0.66 ug/ml | |
| 53) 2-Chloronaphthalene | 4.813 | 162 | 16205 | 1.08 ug/ml | 97 |
| 54) 2-Nitroaniline | 4.884 | 65 | 3196 | 0.69 ug/ml | 92 |
| 55) Dimethylphthalate | 4.972 | 163 | 17824 | 1.21 ug/ml | 98 |
| 56) Acenaphthylene | 5.072 | 152 | 21811 | 1.31 ug/ml | 97 |
| 57) 2,6-Dinitrotoluene | 5.019 | 165 | 2907 | 0.69 ug/ml | 88 |
| 59) Acenaphthene | 5.178 | 154 | 15501m | 1.16 ug/ml | |
| 61) Dibenzofuran | 5.289 | 168 | 22461 | 0.99 ug/ml | 85 |
| 63) 2,4-Dinitrotoluene | 5.284 | 165 | 3177 | 0.61 ug/ml# | 70 |
| 64) Diethylphthalate | 5.413 | 149 | 18094 | 0.88 ug/ml | 98 |
| 65) Fluorene | 5.513 | 166 | 18188 | 1.18 ug/ml | 100 |
| 66) 4-Chlorophenyl phenyl ... | 5.501 | 204 | 9035 | 1.14 ug/ml | 96 |
| 68) Atrazine | 5.931 | 200 | 3691 | 1.11 ug/ml | 90 |
| 70) 4,6-Dinitro-2-methylph... | 5.572 | 198 | 1400 | 0.61 ug/ml# | 1 |
| 71) N-Nitrosodiphenylamine | 5.578 | 169 | 13058 | 1.21 ug/ml | 97 |
| 72) 1,2-Diphenylhydrazine | 5.607 | 77 | 18740 | 1.63 ug/ml | 99 |
| 74) 4-Bromophenyl phenyl e... | 5.825 | 248 | 4599 | 1.30 ug/ml | 90 |
| 75) Hexachlorobenzene | 5.878 | 284 | 5587 | 1.31 ug/ml | 86 |
| 76) Pentachlorophenol | 6.031 | 266 | 1772 | 0.66 ug/ml | 84 |
| 77) Phenanthrene | 6.160 | 178 | 29315 | 1.11 ug/ml | 96 |
| 78) Anthracene | 6.201 | 178 | 24671 | 1.75 ug/ml | 99 |
| 79) Carbazole | 6.319 | 167 | 18441 | 0.69 ug/ml | 93 |
| 80) Di-n-butylphthalate | 6.531 | 149 | 17915 | 0.81 ug/ml | 98 |
| 81) Fluoranthene | 7.072 | 202 | 24390 | 1.52 ug/ml | 94 |
| 83) 3,3-Dimethylbenzidine | 7.930 | 212 | 9414 | 1.02 ug/ml | 97 |
| 84) Benzidine | 7.201 | 184 | 7193 | 0.87 ug/ml | 91 |
| 85) Pyrene | 7.283 | 202 | 25929 | 0.89 ug/ml | 97 |
| 87) Butylbenzylphthalate | 7.930 | 149 | 6223 | 0.83 ug/ml | 92 |
| 88) Benzo[a]anthracene | 8.672 | 228 | 24369 | 0.86 ug/ml | 95 |
| 89) 3,3'-Dichlorobenzidine | 8.654 | 252 | 6451 | 0.95 ug/ml | 95 |
| 90) Chrysene | 8.725 | 228 | 27333 | 0.96 ug/ml | 96 |
| 91) Bis(2-ethylhexyl)phtha... | 8.713 | 149 | 9117 | 0.89 ug/ml | 81 |
| 93) Di-n-octylphthalate | 9.824 | 149 | 13259 | 0.84 ug/ml | 96 |
| 94) Benzo(b)fluoranthene | 10.483 | 252 | 18745 | 0.65 ug/ml | 96 |
| 95) Benzo(k)fluoranthene | 10.536 | 252 | 22126 | 0.70 ug/ml | 98 |
| 96) Benzo(a)pyrene | 11.095 | 252 | 17717 | 0.79 ug/ml | 95 |
| 97) Indeno(1,2,3-cd)pyrene | 13.107 | 276 | 17187m | 0.60 ug/ml | |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181810.D
Acq On : 18 Sep 2018 4:42 pm
Operator : EB
Sample : 1.0ug/ml BNA
Misc : 300-0390C
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 07:35:18 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

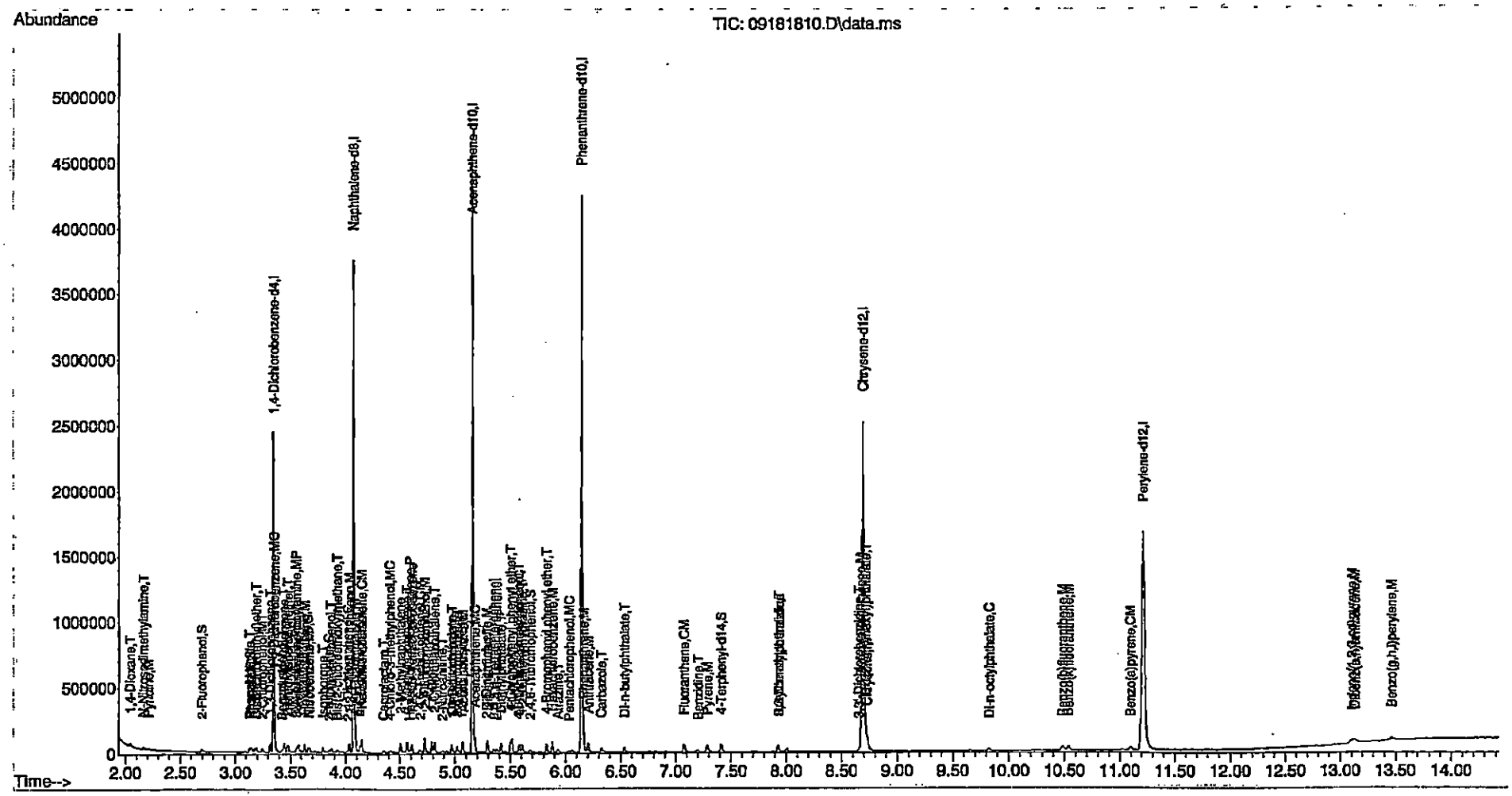
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 98) Dibenz(a,h)anthracene | 13.136 | 278 | 20417 | 0.62 ug/ml | 92 |
| 99) Benzo(g,h,i)perylene | 13.465 | 276 | 22392 | 0.57 ug/ml | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181810.D
Acq On : 18 Sep 2018 4:42 pm
Operator : EB
Sample : 1.0ug/ml BNA
Misc : 300-0390C
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 07:35:18 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181811.D
Acq On : 18 Sep 2018 5:02 pm
Operator : EB
Sample : 5.0ug/ml BNA
Misc : 300-0390D
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 19 07:35:22 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.342 | 150 | 372247 | 40.00 | ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 938592 | 40.00 | ug/ml | -0.02 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 570504 | 40.00 | ug/ml | -0.02 |
| 69) Phenanthrene-d10 | 6.136 | 188 | 1089381 | 40.00 | ug/ml | -0.03 |
| 82) Chrysene-d12 | 8.683 | 240 | 1038201 | 40.00 | ug/ml | -0.05 |
| 92) Perylene-d12 | 11.224 | 264 | 1008722 | 40.00 | ug/ml | -0.05 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 29587 | 3.68 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery | = 7.36% | | |
| 7) Phenol-d6 | 3.125 | 99 | 40134 | 3.96 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery | = 7.92% | | |
| 23) Nitrobenzene-d5 | 3.654 | 82 | 47978 | 4.68 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery | = 9.36% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 96708 | 4.45 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery | = 8.90%# | | |
| 73) 2,4,6-Tribromophenol | 5.672 | 330 | 11996 | 5.53 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery | = 11.06%# | | |
| 86) 4-Terphenyl-d14 | 7.401 | 244 | 117504 | 4.80 | ug/ml | -0.04 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery | = 9.60%# | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Pyridine | 2.190 | 79 | 43471 | 4.87 | ug/ml | 94 |
| 3) 1,4-Dioxane | 2.037 | 88 | 21530 | 4.97 | ug/ml | 91 |
| 4) N-Nitrosodimethylamine | 2.154 | 42 | 25671 | 5.14 | ug/ml | 90 |
| 6) Benzaldehyde | 3.125 | 77 | 21158 | 4.46 | ug/ml | 93 |
| 8) Phenol | 3.137 | 94 | 43015 | 4.01 | ug/ml | 91 |
| 9) Aniline | 3.172 | 93 | 49739m | 3.64 | ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.189 | 93 | 45448m | 5.93 | ug/ml | |
| 11) 2-Chlorophenol | 3.237 | 128 | 36660 | 4.42 | ug/ml | 97 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 43829 | 4.58 | ug/ml | 98 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 45473 | 4.64 | ug/ml | 94 |
| 14) Benzyl alcohol | 3.413 | 108 | 18995 | 4.31 | ug/ml | 90 |
| 15) 1,2-Dichlorobenzene | 3.442 | 146 | 43897 | 4.79 | ug/ml | 96 |
| 16) 2-Methylphenol | 3.460 | 107 | 28416 | 4.36 | ug/ml | 93 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 49584 | 4.03 | ug/ml | 88 |
| 18) 3&4-Methylphenol | 3.548 | 107 | 38008 | 4.50 | ug/ml | 89 |
| 19) Acetophenone | 3.560 | 105 | 58657 | 4.85 | ug/ml | 97 |
| 20) N-Nitrosodi-n-propylamine | 3.548 | 70 | 32053 | 5.22 | ug/ml | 98 |
| 21) Hexachloroethane | 3.625 | 117 | 21071 | 5.63 | ug/ml | 97 |
| 24) Nitrobenzene | 3.666 | 123 | 17807 | 4.71 | ug/ml# | 76 |
| 25) Isophorone | 3.795 | 82 | 78820 | 5.54 | ug/ml | 98 |
| 26) 2-Nitrophenol | 3.848 | 139 | 18374 | 4.95 | ug/ml | 85 |
| 27) 2,4-Dimethylphenol | 3.854 | 107 | 41305 | 5.59 | ug/ml | 93 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 48029 | 4.75 | ug/ml | 98 |
| 29) Benzoic acid | 3.895 | 122 | 9656 | 2.82 | ug/ml | 92 |
| 30) 2,4-Dichlorophenol | 3.995 | 162 | 30119 | 4.69 | ug/ml | 96 |
| 31) 1,2,4-Trichlorobenzene | 4.036 | 180 | 40586 | 5.08 | ug/ml | 99 |
| 33) Naphthalene | 4.084 | 128 | 120687 | 4.68 | ug/ml | 91 |
| 34) 4-Chloroaniline | 4.119 | 127 | 42690 | 4.27 | ug/ml | 95 |

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181811.D
Acq On : 18 Sep 2018 5:02 pm
Operator : EB
Sample : 5.0ug/ml BNA
Misc : 300-0390D
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 19 07:35:22 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) 2,6-Dichlorophenol | 4.119 | 162 | 34192 | 4.94 ug/ml | 99 |
| 36) Hexachlorobutadiene | 4.148 | 225 | 25171 | 5.35 ug/ml | 96 |
| 37) Caprolactam | 4.325 | 55 | 9090 | 3.68 ug/ml | 87 |
| 38) 4-Chloro-3-methylphenol | 4.401 | 107 | 32537 | 4.46 ug/ml | 97 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 79954 | 4.61 ug/ml | 94 |
| 40) 1-Methylnaphthalene | 4.566 | 142 | 79792 | 4.83 ug/ml | 96 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 101062 | 4.76 ug/ml | 97 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.336 | 232 | 18261 | 4.40 ug/ml | 96 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.366 | 232 | 21371 | 4.72 ug/ml | 95 |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 9864 | 5.00 ug/ml# | 92 |
| 45) 1,4-Dinitrobenzene | 5.007 | 168 | 13625 | 5.45 ug/ml | 88 |
| 46) 1,2-Dinitrobenzene | 5.054 | 168 | 9719 | 5.43 ug/ml | 93 |
| 48) Hexachlorocyclopentadiene | 4.589 | 237 | 16238 | 4.47 ug/ml | 96 |
| 49) 1,2,4,5-Tetrachloroben... | 4.607 | 216 | 39530 | 4.18 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.678 | 196 | 20825 | 3.92 ug/ml | 97 |
| 51) 2,4,5-Trichlorophenol | 4.707 | 196 | 25900 | 4.51 ug/ml | 93 |
| 53) 2-Chloronaphthalene | 4.807 | 162 | 78730 | 4.34 ug/ml | 99 |
| 54) 2-Nitroaniline | 4.872 | 65 | 21756 | 4.78 ug/ml | 96 |
| 55) Dimethylphthalate | 4.966 | 163 | 99538 | 4.86 ug/ml | 98 |
| 56) Acenaphthylene | 5.066 | 152 | 117141 | 4.49 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 19363 | 4.42 ug/ml | 84 |
| 58) 3-Nitroaniline | 5.131 | 138 | 18005 | 4.51 ug/ml | 92 |
| 59) Acenaphthene | 5.172 | 154 | 76816 | 4.15 ug/ml | 91 |
| 60) 2,4-Dinitrophenol | 5.207 | 184 | 5942m | 3.35 ug/ml | |
| 61) Dibenzofuran | 5.283 | 168 | 116684 | 4.36 ug/ml | 82 |
| 62) 4-Nitrophenol | 5.201 | 65 | 1962m | 0.99 ug/ml | |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 24024 | 4.53 ug/ml# | 77 |
| 64) Diethylphthalate | 5.407 | 149 | 102427 | 5.27 ug/ml | 98 |
| 65) Fluorene | 5.507 | 166 | 87573 | 4.19 ug/ml | 97 |
| 66) 4-Chlorophenyl phenyl ... | 5.495 | 204 | 47711 | 4.44 ug/ml | 95 |
| 67) 4-Nitroaniline | 5.536 | 138 | 14191 | 3.79 ug/ml# | 61 |
| 68) Atrazine | 5.919 | 200 | 25258 | 4.24 ug/ml | 94 |
| 70) 4,6-Dinitro-2-methylph... | 5.548 | 198 | 11118 | 3.92 ug/ml | 95 |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 79051 | 4.68 ug/ml | 98 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 122059 | 5.64 ug/ml | 96 |
| 74) 4-Bromophenyl phenyl e... | 5.825 | 248 | 25675 | 4.65 ug/ml | 94 |
| 75) Hexachlorobenzene | 5.872 | 284 | 30708 | 5.07 ug/ml | 90 |
| 76) Pentachlorophenol | 6.013 | 266 | 11916 | 4.33 ug/ml | 94 |
| 77) Phenanthrene | 6.154 | 178 | 141148 | 4.51 ug/ml | 99 |
| 78) Anthracene | 6.195 | 178 | 131306 | 4.93 ug/ml | 97 |
| 79) Carbazole | 6.307 | 167 | 118093 | 4.48 ug/ml | 98 |
| 80) Di-n-butylphthalate | 6.525 | 149 | 128767 | 5.31 ug/ml | 99 |
| 81) Fluoranthene | 7.066 | 202 | 141209 | 4.51 ug/ml | 99 |
| 83) 3,3-Dimethylbenzidine | 7.924 | 212 | 51461 | 4.77 ug/ml | 97 |
| 84) Benzidine | 7.177 | 184 | 43749 | 4.54 ug/ml | 97 |
| 85) Pyrene | 7.272 | 202 | 151487 | 5.06 ug/ml | 98 |
| 87) Butylbenzylphthalate | 7.924 | 149 | 48293 | 5.53 ug/ml | 93 |
| 88) Benzo[a]anthracene | 8.671 | 228 | 134256 | 4.74 ug/ml | 100 |
| 89) 3,3'-Dichlorobenzidine | 8.642 | 252 | 37060 | 5.07 ug/ml | 97 |
| 90) Chrysene | 8.724 | 228 | 149713 | 4.70 ug/ml | 98 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 64053 | 5.76 ug/ml | 99 |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181811.D
Acq On : 18 Sep 2018 5:02 pm
Operator : EB
Sample : 5.0ug/ml BNA
Misc : 300-0390D
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 19 07:35:22 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

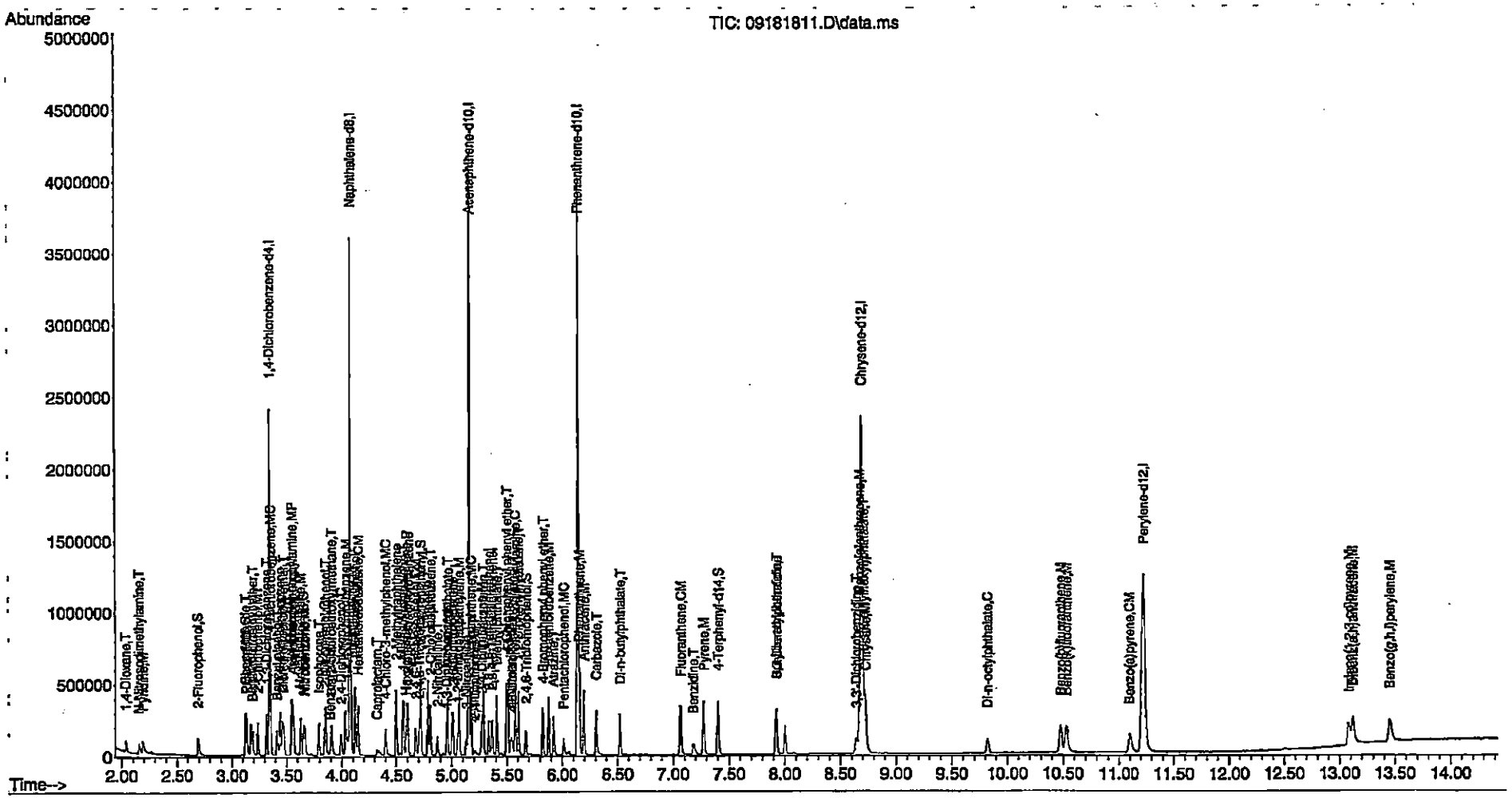
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) Di-n-octylphthalate | 9.818 | 149 | 72983 | 5.14 ug/ml | 97 |
| 94) Benzo(b)fluoranthene | 10.477 | 252 | 113776 | 4.13 ug/ml | 98 |
| 95) Benzo(k)fluoranthene | 10.530 | 252 | 132816 | 4.37 ug/ml | 99 |
| 96) Benzo(a)pyrene | 11.095 | 252 | 106283 | 4.71 ug/ml | 98 |
| 97) Indeno(1,2,3-cd)pyrene | 13.083 | 276 | 102998m | 4.01 ug/ml | |
| 98) Dibenz(a,h)anthracene | 13.118 | 278 | 120364 | 3.98 ug/ml | 98 |
| 99) Benzo(g,h,i)perylene | 13.448 | 276 | 126247 | 3.95 ug/ml | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181811.D
Acq On : 18 Sep 2018 5:02 pm
Operator : EB
Sample : 5.0ug/ml BNA
Misc : 300-0390D
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 19 07:35:22 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181812.D
Acq On : 18 Sep 2018 5:23 pm
Operator : EB
Sample : 10ug/ml BNA
Misc : 300-0390E
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 07:35:26 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 414939 | 40.00 ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1014246 | 40.00 ug/ml | -0.02 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 596448 | 40.00 ug/ml | -0.02 |
| 69) Phenanthrene-d10 | 6.142 | 188 | 1128934 | 40.00 ug/ml | -0.02 |
| 82) Chrysene-d12 | 8.683 | 240 | 1160562 | 40.00 ug/ml | -0.05 |
| 92) Perylene-d12 | 11.213 | 264 | 1229618 | 40.00 ug/ml | -0.06 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 80264 | 9.43 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 18.86% | | |
| 7) Phenol-d6 | 3.125 | 99 | 100340 | 9.14 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 18.28% | | |
| 23) Nitrobenzene-d5 | 3.654 | 82 | 114980 | 10.28 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 20.56% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 206274 | 9.30 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 18.60%# | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 28210 | 12.10 ug/ml | -0.03 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 24.20%# | | |
| 86) 4-Terphenyl-d14 | 7.395 | 244 | 251323 | 9.30 ug/ml | -0.04 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 18.60%# | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Pyridine | 2.184 | 79 | 107462 | 10.80 ug/ml | 93 |
| 3) 1,4-Dioxane | 2.043 | 88 | 47123 | 10.48 ug/ml | 97 |
| 4) N-Nitrosodimethylamine | 2.154 | 42 | 63086 | 11.56 ug/ml | 91 |
| 6) Benzaldehyde | 3.125 | 77 | 49009 | 8.20 ug/ml | 95 |
| 8) Phenol | 3.131 | 94 | 106681 | 8.68 ug/ml | 89 |
| 9) Aniline | 3.172 | 93 | 123554m | 7.99 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 93079m | 10.91 ug/ml | |
| 11) 2-Chlorophenol | 3.237 | 128 | 85101 | 9.06 ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 99131 | 9.39 ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 102150 | 9.42 ug/ml | 98 |
| 14) Benzyl alcohol | 3.413 | 108 | 50468 | 9.69 ug/ml | 94 |
| 15) 1,2-Dichlorobenzene | 3.443 | 146 | 97424 | 9.63 ug/ml | 97 |
| 16) 2-Methylphenol | 3.460 | 107 | 68691 | 9.53 ug/ml | 96 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 104831 | 7.67 ug/ml | 83 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 89415 | 9.48 ug/ml | 90 |
| 19) Acetophenone | 3.560 | 105 | 134242 | 10.16 ug/ml | 96 |
| 20) N-Nitrosodi-n-propylamine | 3.548 | 70 | 72418 | 10.17 ug/ml | 97 |
| 21) Hexachloroethane | 3.625 | 117 | 46342 | 11.09 ug/ml | 100 |
| 24) Nitrobenzene | 3.666 | 123 | 41579 | 9.95 ug/ml# | 83 |
| 25) Isophorone | 3.795 | 82 | 176723 | 11.15 ug/ml | 98 |
| 26) 2-Nitrophenol | 3.848 | 139 | 44941 | 10.80 ug/ml | 89 |
| 27) 2,4-Dimethylphenol | 3.854 | 107 | 96041 | 11.59 ug/ml | 94 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 104822 | 9.17 ug/ml | 98 |
| 29) Benzoic acid | 3.890 | 122 | 27533 | 7.02 ug/ml | 96 |
| 30) 2,4-Dichlorophenol | 3.990 | 162 | 70518 | 10.07 ug/ml | 98 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 86690 | 9.75 ug/ml | 99 |
| 33) Naphthalene | 4.084 | 128 | 261162 | 9.49 ug/ml | 96 |
| 34) 4-Chloroaniline | 4.119 | 127 | 101197 | 9.24 ug/ml | 97 |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181812.D
Acq On : 18 Sep 2018 5:23 pm
Operator : EB
Sample : 10ug/ml BNA
Misc : 300-0390E
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 07:35:26 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) 2,6-Dichlorophenol | 4.119 | 162 | 73062 | 9.39 ug/ml | 97 |
| 36) Hexachlorobutadiene | 4.148 | 225 | 53959 | 10.32 ug/ml | 95 |
| 37) Caprolactam | 4.325 | 55 | 27314 | 9.63 ug/ml | 97 |
| 38) 4-Chloro-3-methylphenol | 4.395 | 107 | 78496 | 9.78 ug/ml | 95 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 170238 | 8.99 ug/ml | 93 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 166133 | 9.27 ug/ml | 94 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 214049 | 9.17 ug/ml | 97 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.337 | 232 | 41729 | 8.91 ug/ml | 94 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.360 | 232 | 47460m | 9.60 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 24909 | 10.95 ug/ml | 94 |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 31707 | 11.24 ug/ml | 92 |
| 46) 1,2-Dinitrobenzene | 5.054 | 168 | 21307 | 10.68 ug/ml | 91 |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 42460 | 10.29 ug/ml | 98 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 85941 | 8.24 ug/ml | 98 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 50119 | 8.92 ug/ml | 98 |
| 51) 2,4,5-Trichlorophenol | 4.701 | 196 | 55352 | 9.12 ug/ml | 98 |
| 53) 2-Chloronaphthalene | 4.807 | 162 | 168005 | 8.55 ug/ml | 98 |
| 54) 2-Nitroaniline | 4.866 | 65 | 55489 | 10.97 ug/ml | 96 |
| 55) Dimethylphthalate | 4.966 | 163 | 201371 | 8.96 ug/ml | 99 |
| 56) Acenaphthylene | 5.066 | 152 | 257224 | 8.74 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 43657 | 9.28 ug/ml | 85 |
| 58) 3-Nitroaniline | 5.125 | 138 | 42694 | 9.74 ug/ml | 94 |
| 59) Acenaphthene | 5.178 | 154 | 159299 | 7.79 ug/ml | 94 |
| 60) 2,4-Dinitrophenol | 5.201 | 184 | 19354 | 8.72 ug/ml# | 96 |
| 61) Dibenzofuran | 5.284 | 168 | 246760 | 8.58 ug/ml | 92 |
| 62) 4-Nitrophenol | 5.242 | 65 | 34471 | 9.26 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 58126 | 10.05 ug/ml | 88 |
| 64) Diethylphthalate | 5.407 | 149 | 208742 | 10.08 ug/ml | 97 |
| 65) Fluorene | 5.507 | 166 | 189885 | 8.21 ug/ml | 99 |
| 66) 4-Chlorophenyl phenyl ... | 5.495 | 204 | 98847 | 8.38 ug/ml | 96 |
| 67) 4-Nitroaniline | 5.525 | 138 | 46210 | 10.75 ug/ml | 84 |
| 68) Atrazine | 5.919 | 200 | 57880 | 8.97 ug/ml | 94 |
| 70) 4,6-Dinitro-2-methylph... | 5.542 | 198 | 29394 | 9.30 ug/ml | 93 |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 165767 | 8.92 ug/ml | 98 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 259711 | 10.62 ug/ml | 94 |
| 74) 4-Bromophenyl phenyl e... | 5.825 | 248 | 51871 | 8.51 ug/ml | 91 |
| 75) Hexachlorobenzene | 5.872 | 284 | 58526 | 8.91 ug/ml | 88 |
| 76) Pentachlorophenol | 6.007 | 266 | 27716 | 9.36 ug/ml | 92 |
| 77) Phenanthrene | 6.154 | 178 | 294472 | 8.85 ug/ml | 99 |
| 78) Anthracene | 6.195 | 178 | 285455 | 9.21 ug/ml | 99 |
| 79) Carbazole | 6.301 | 167 | 261251 | 9.42 ug/ml | 98 |
| 80) Di-n-butylphthalate | 6.519 | 149 | 292544 | 10.93 ug/ml | 99 |
| 81) Fluoranthene | 7.060 | 202 | 307374 | 8.48 ug/ml | 99 |
| 83) 3,3-Dimethylbenzidine | 7.919 | 212 | 135787 | 10.20 ug/ml | 97 |
| 84) Benzidine | 7.172 | 184 | 125770 | 10.69 ug/ml | 95 |
| 85) Pyrene | 7.272 | 202 | 318958 | 9.48 ug/ml | 99 |
| 87) Butylbenzylphthalate | 7.925 | 149 | 129950 | 12.08 ug/ml | 97 |
| 88) Benzo[a]anthracene | 8.672 | 228 | 312430 | 9.74 ug/ml | 100 |
| 89) 3,3'-Dichlorobenzidine | 8.636 | 252 | 98481 | 11.22 ug/ml | 98 |
| 90) Chrysene | 8.725 | 228 | 325449 | 9.06 ug/ml | 96 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 175426 | 12.62 ug/ml | 96 |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181812.D
Acq On : 18 Sep 2018 5:23 pm
Operator : EB
Sample : 10ug/ml BNA
Misc : 300-0390E
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 07:35:26 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

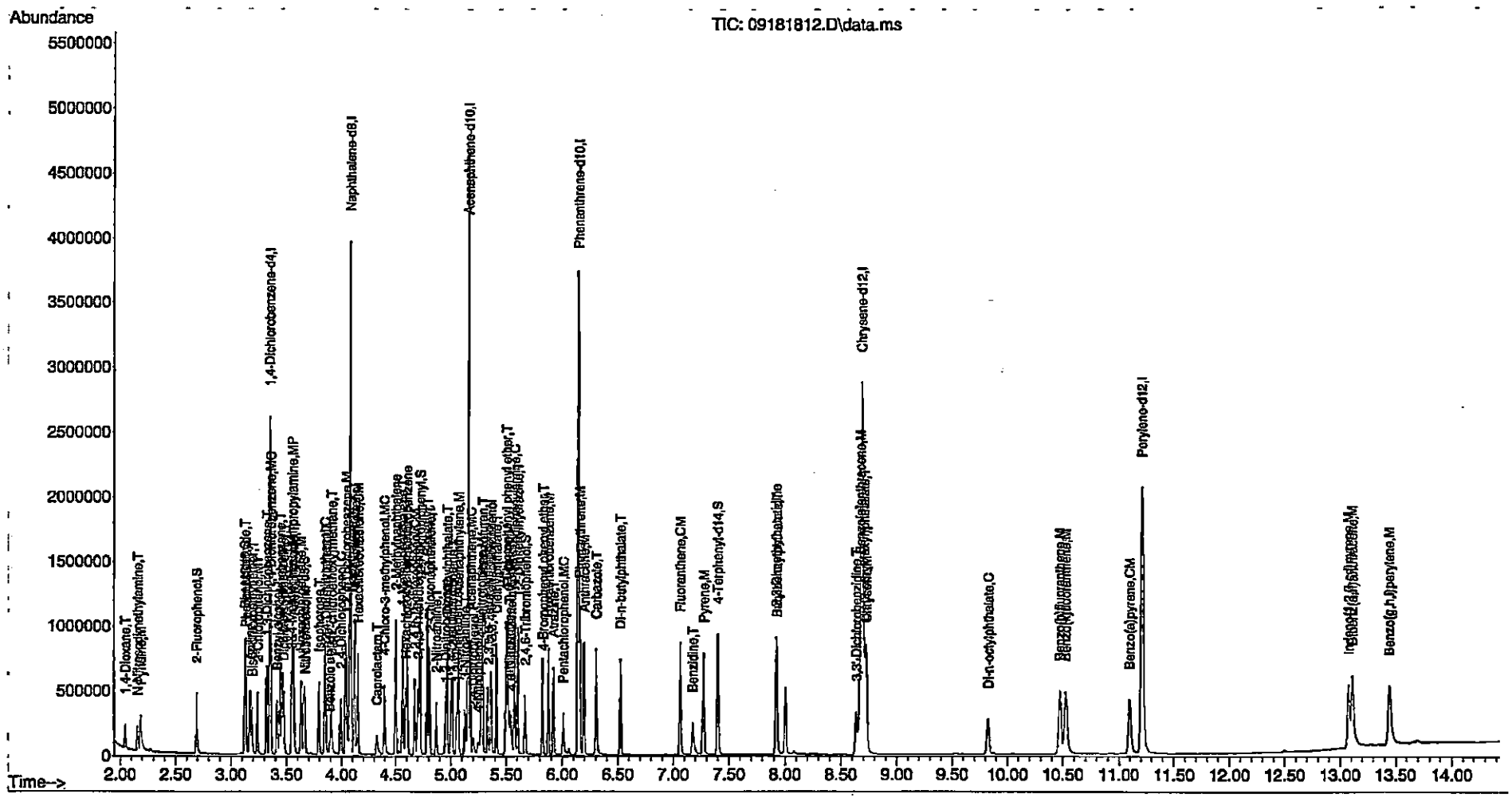
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) Di-n-octylphthalate | 9.824 | 149 | 206363 | 10.45 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.471 | 252 | 302908 | 8.82 ug/ml | 99 |
| 95) Benzo(k)fluoranthene | 10.524 | 252 | 327133 | 8.69 ug/ml | 99 |
| 96) Benzo(a)pyrene | 11.095 | 252 | 283525 | 9.82 ug/ml | 100 |
| 97) Indeno(1,2,3-cd)pyrene | 13.077 | 276 | 283385m | 8.87 ug/ml | |
| 98) Dibenz(a,h)anthracene | 13.112 | 278 | 317767 | 8.53 ug/ml | 99 |
| 99) Benzo(g,h,i)perylene | 13.442 | 276 | 333581 | 8.61 ug/ml | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181812.D
Acq On : 18 Sep 2018 5:23 pm
Operator : EB
Sample : 10ug/ml BNA
Misc : 300-0390E
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 07:35:26 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181813.D
Acq On : 18 Sep 2018 5:43 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 07:35:30 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 450097 | 40.00 ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1068655 | 40.00 ug/ml | -0.02 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 639855 | 40.00 ug/ml | -0.02 |
| 69) Phenanthrene-d10 | 6.142 | 188 | 1229016 | 40.00 ug/ml | -0.02 |
| 82) Chrysene-d12 | 8.689 | 240 | 1295939 | 40.00 ug/ml | -0.05 |
| 92) Perylene-d12 | 11.224 | 264 | 1283651 | 40.00 ug/ml | -0.05 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 171033 | 18.83 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 37.66% | | |
| 7) Phenol-d6 | 3.125 | 99 | 214711 | 18.23 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 36.46% | | |
| 23) Nitrobenzene-d5 | 3.648 | 82 | 244296 | 20.11 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 40.22% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 438109 | 18.27 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 36.54% | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 64625 | 23.63 ug/ml | -0.03 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 47.26% | | |
| 86) 4-Terphenyl-d14 | 7.401 | 244 | 590861 | 19.52 ug/ml | -0.03 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 39.04% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Pyridine | 2.178 | 79 | 217805 | 20.18 ug/ml | 92 |
| 3) 1,4-Dioxane | 2.043 | 88 | 101314 | 21.98 ug/ml | 97 |
| 4) N-Nitrosodimethylamine | 2.148 | 42 | 133619 | 22.86 ug/ml | 90 |
| 6) Benzaldehyde | 3.119 | 77 | 106294 | 15.53 ug/ml | 97 |
| 8) Phenol | 3.131 | 94 | 233083 | 17.59 ug/ml | 89 |
| 9) Aniline | 3.172 | 93 | 277024m | 16.69 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 193983m | 21.17 ug/ml | |
| 11) 2-Chlorophenol | 3.231 | 128 | 185064 | 18.28 ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 208567 | 18.60 ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 211065 | 18.31 ug/ml | 99 |
| 14) Benzyl alcohol | 3.407 | 108 | 109910 | 19.02 ug/ml | 90 |
| 15) 1,2-Dichlorobenzene | 3.443 | 146 | 199337 | 18.54 ug/ml | 99 |
| 16) 2-Methylphenol | 3.460 | 107 | 153007 | 19.64 ug/ml | 98 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 224092 | 15.34 ug/ml | 82 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 198412 | 19.38 ug/ml | 92 |
| 19) Acetophenone | 3.560 | 105 | 283120 | 19.94 ug/ml | 95 |
| 20) N-Nitrosodi-n-propylamine | 3.548 | 70 | 162973 | 20.65 ug/ml | 99 |
| 21) Hexachloroethane | 3.625 | 117 | 97415 | 21.73 ug/ml | 99 |
| 24) Nitrobenzene | 3.660 | 123 | 91781 | 20.04 ug/ml | 84 |
| 25) Isophorone | 3.795 | 82 | 408765 | 22.91 ug/ml | 98 |
| 26) 2-Nitrophenol | 3.842 | 139 | 100582 | 21.57 ug/ml | 89 |
| 27) 2,4-Dimethylphenol | 3.848 | 107 | 204849 | 22.05 ug/ml | 97 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 229708 | 18.64 ug/ml | 99 |
| 29) Benzoic acid | 3.895 | 122 | 75225 | 16.41 ug/ml | 91 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 153433 | 20.26 ug/ml | 97 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 184924 | 19.45 ug/ml | 98 |
| 33) Naphthalene | 4.084 | 128 | 543866 | 18.73 ug/ml | 97 |
| 34) 4-Chloroaniline | 4.113 | 127 | 225288 | 19.01 ug/ml | 98 |

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181813.D
Acq On : 18 Sep 2018 5:43 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 07:35:30 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) 2,6-Dichlorophenol | 4.113 | 162 | 161392 | 19.25 ug/ml | 98 |
| 36) Hexachlorobutadiene | 4.148 | 225 | 113787 | 20.36 ug/ml | 94 |
| 37) Caprolactam | 4.325 | 55 | 74548 | 23.53 ug/ml | 97 |
| 38) 4-Chloro-3-methylphenol | 4.390 | 107 | 176335 | 20.20 ug/ml | 97 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 377605 | 18.70 ug/ml | 95 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 355425 | 18.63 ug/ml | 94 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 461456 | 18.60 ug/ml | 97 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.331 | 232 | 101198 | 19.71 ug/ml | 99 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.360 | 232 | 107325m | 20.16 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 62966 | 23.56 ug/ml | 85 |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 72923 | 22.82 ug/ml | 90 |
| 46) 1,2-Dinitrobenzene | 5.054 | 168 | 49372 | 22.23 ug/ml | 95 |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 101204 | 20.17 ug/ml | 95 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 185014 | 16.11 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 119998 | 19.20 ug/ml | 96 |
| 51) 2,4,5-Trichlorophenol | 4.701 | 196 | 121321 | 18.17 ug/ml | 98 |
| 53) 2-Chloronaphthalene | 4.801 | 162 | 364577 | 17.00 ug/ml | 98 |
| 54) 2-Nitroaniline | 4.866 | 65 | 133931 | 22.24 ug/ml | 94 |
| 55) Dimethylphthalate | 4.966 | 163 | 454595 | 18.35 ug/ml | 99 |
| 56) Acenaphthylene | 5.066 | 152 | 570563 | 17.40 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 100409 | 19.07 ug/ml | 84 |
| 58) 3-Nitroaniline | 5.125 | 138 | 104097 | 20.47 ug/ml | 97 |
| 59) Acenaphthene | 5.178 | 154 | 380930 | 16.80 ug/ml | 98 |
| 60) 2,4-Dinitrophenol | 5.195 | 184 | 53485 | 19.20 ug/ml# | 94 |
| 61) Dibenzofuran | 5.284 | 168 | 535637 | 17.10 ug/ml | 92 |
| 62) 4-Nitrophenol | 5.225 | 65 | 70099 | 16.12 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 133507 | 20.13 ug/ml | 88 |
| 64) Diethylphthalate | 5.407 | 149 | 473688 | 20.44 ug/ml | 99 |
| 65) Fluorene | 5.507 | 166 | 429894 | 16.84 ug/ml | 100 |
| 66) 4-Chlorophenyl phenyl ... | 5.495 | 204 | 215885 | 16.63 ug/ml | 97 |
| 67) 4-Nitroaniline | 5.519 | 138 | 112951 | 21.94 ug/ml# | 79 |
| 68) Atrazine | 5.919 | 200 | 140008 | 23.07 ug/ml | 94 |
| 70) 4,6-Dinitro-2-methylph... | 5.537 | 198 | 75754 | 19.81 ug/ml | 97 |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 377835 | 18.09 ug/ml | 100 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 582878 | 20.92 ug/ml | 94 |
| 74) 4-Bromophenyl phenyl e... | 5.819 | 248 | 120617 | 17.52 ug/ml | 92 |
| 75) Hexachlorobenzene | 5.872 | 284 | 128332 | 17.46 ug/ml | 89 |
| 76) Pentachlorophenol | 6.007 | 266 | 72390 | 20.74 ug/ml | 92 |
| 77) Phenanthrene | 6.160 | 178 | 654830 | 17.84 ug/ml | 99 |
| 78) Anthracene | 6.195 | 178 | 662765 | 18.49 ug/ml | 99 |
| 79) Carbazole | 6.301 | 167 | 600998 | 19.32 ug/ml | 97 |
| 80) Di-n-butylphthalate | 6.525 | 149 | 763846 | 23.25 ug/ml | 99 |
| 81) Fluoranthene | 7.060 | 202 | 727723 | 17.39 ug/ml | 98 |
| 83) 3,3-Dimethylbenzidine | 7.925 | 212 | 377811 | 21.46 ug/ml | 98 |
| 84) Benzidine | 7.172 | 184 | 356027 | 23.33 ug/ml | 97 |
| 85) Pyrene | 7.272 | 202 | 775388 | 20.35 ug/ml | 98 |
| 87) Butylbenzylphthalate | 7.925 | 149 | 365636 | 25.65 ug/ml | 97 |
| 88) Benzo[a]anthracene | 8.672 | 228 | 718413 | 19.40 ug/ml | 99 |
| 89) 3,3'-Dichlorobenzidine | 8.636 | 252 | 251641 | 22.71 ug/ml | 99 |
| 90) Chrysene | 8.730 | 228 | 743833 | 18.45 ug/ml | 98 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 495954 | 26.27 ug/ml | 98 |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181813.D
Acq On : 18 Sep 2018 5:43 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 07:35:30 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

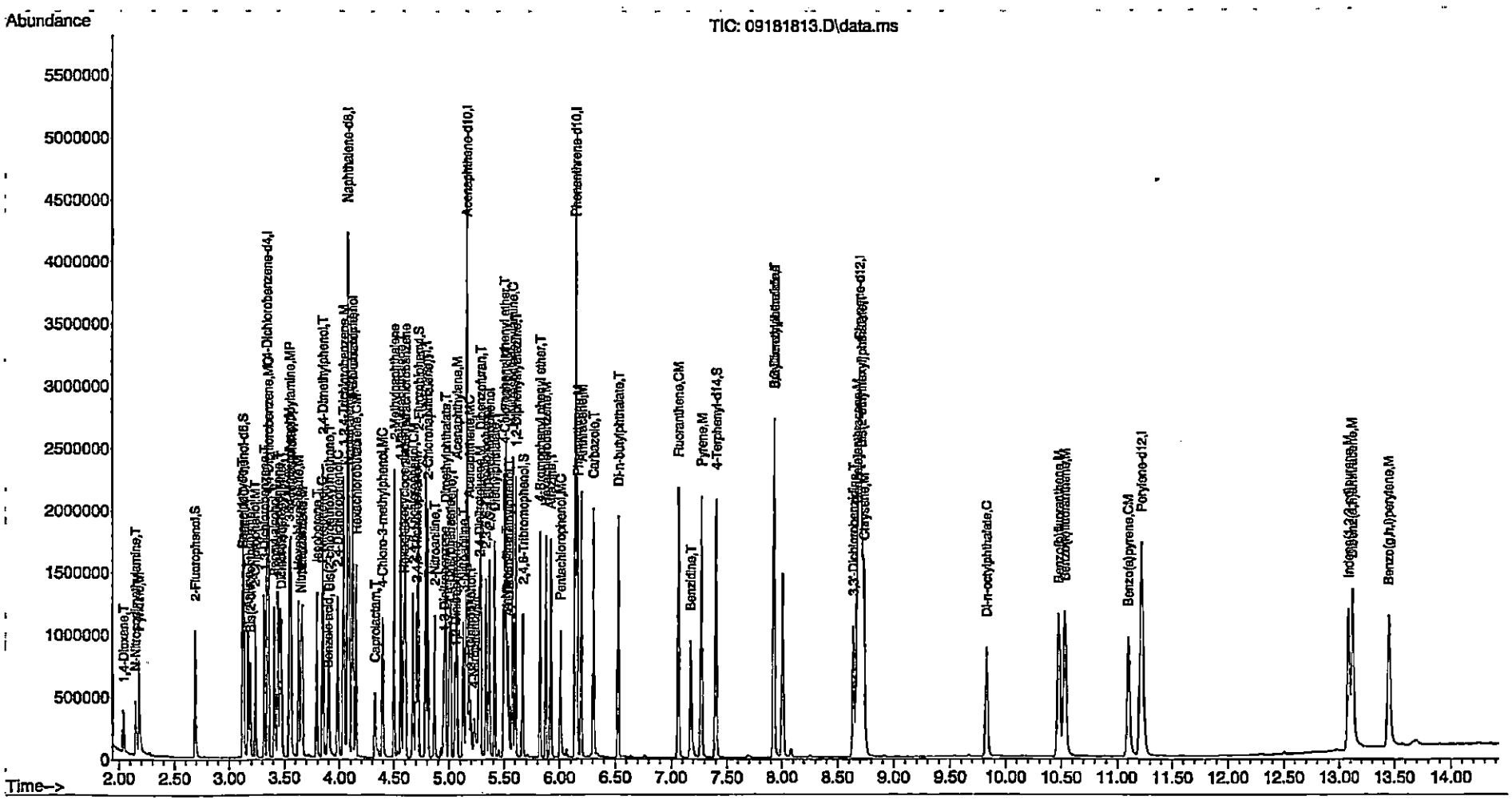
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) Di-n-octylphthalate | 9.824 | 149 | 618735 | 22.91 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.477 | 252 | 711188 | 18.97 ug/ml | 98 |
| 95) Benzo(k)fluoranthene | 10.530 | 252 | 739345 | 18.31 ug/ml | 98 |
| 96) Benzo(a)pyrene | 11.101 | 252 | 673772 | 20.50 ug/ml | 99 |
| 97) Indeno(1,2,3-cd)pyrene | 13.083 | 276 | 651337 | 18.69 ug/ml | 98 |
| 98) Dibenz(a,h)anthracene | 13.118 | 278 | 717238 | 18.03 ug/ml | 99 |
| 99) Benzo(g,h,i)perylene | 13.448 | 276 | 745071 | 18.28 ug/ml | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181813.D
Acq On : 18 Sep 2018 5:43 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 07:35:30 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181814.D
Acq On : 18 Sep 2018 6:04 pm
Operator : EB
Sample : 40ug/ml BNA
Misc : 300-0390G
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 07:35:34 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.349 | 150 | 476580 | 40.00 ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1068677 | 40.00 ug/ml | -0.02 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 635478 | 40.00 ug/ml | -0.02 |
| 69) Phenanthrene-d10 | 6.143 | 188 | 1161299 | 40.00 ug/ml | -0.02 |
| 82) Chrysene-d12 | 8.689 | 240 | 1298171 | 40.00 ug/ml | -0.05 |
| 92) Perylene-d12 | 11.213 | 264 | 1420928 | 40.00 ug/ml | -0.06 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 359687 | 37.73 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 75.46%# | | |
| 7) Phenol-d6 | 3.125 | 99 | 447965 | 36.13 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 72.26%# | | |
| 23) Nitrobenzene-d5 | 3.654 | 82 | 500281 | 38.74 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 77.48% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 904273 | 36.52 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 73.04% | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 143184 | 47.86 ug/ml | -0.03 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 95.72% | | |
| 86) 4-Terphenyl-d14 | 7.395 | 244 | 1159056 | 37.52 ug/ml | -0.04 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 75.04% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Pyridine | 2.178 | 79 | 467640 | 40.91 ug/ml | 93 |
| 3) 1,4-Dioxane | 2.043 | 88 | 201732 | 44.34 ug/ml | 97 |
| 4) N-Nitrosodimethylamine | 2.149 | 42 | 275261 | 45.23 ug/ml | 94 |
| 6) Benzaldehyde | 3.119 | 77 | 232757 | 31.73 ug/ml | 95 |
| 8) Phenol | 3.131 | 94 | 481184 | 35.60 ug/ml | 89 |
| 9) Aniline | 3.172 | 93 | 567634m | 33.64 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 399231m | 42.20 ug/ml | |
| 11) 2-Chlorophenol | 3.237 | 128 | 377986 | 36.29 ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 426558 | 37.69 ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 443111 | 38.18 ug/ml | 99 |
| 14) Benzyl alcohol | 3.407 | 108 | 233525 | 37.75 ug/ml | 90 |
| 15) 1,2-Dichlorobenzene | 3.443 | 146 | 407134 | 37.47 ug/ml | 99 |
| 16) 2-Methylphenol | 3.460 | 107 | 312946 | 38.00 ug/ml | 96 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 454542 | 30.36 ug/ml | 81 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 402677 | 37.13 ug/ml | 92 |
| 19) Acetophenone | 3.560 | 105 | 571918 | 38.22 ug/ml | 94 |
| 20) N-Nitrosodi-n-propylamine | 3.549 | 70 | 337592 | 40.02 ug/ml | 99 |
| 21) Hexachloroethane | 3.631 | 117 | 198070 | 42.96 ug/ml | 96 |
| 24) Nitrobenzene | 3.660 | 123 | 193691 | 39.41 ug/ml | 90 |
| 25) Isophorone | 3.796 | 82 | 854443 | 43.08 ug/ml | 97 |
| 26) 2-Nitrophenol | 3.849 | 139 | 212070 | 41.10 ug/ml | 90 |
| 27) 2,4-Dimethylphenol | 3.849 | 107 | 440627 | 42.41 ug/ml | 94 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 453615 | 36.42 ug/ml | 98 |
| 29) Benzoic acid | 3.907 | 122 | 195146 | 35.60 ug/ml | 91 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 333185 | 41.66 ug/ml | 98 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 405628 | 42.31 ug/ml | 100 |
| 33) Naphthalene | 4.084 | 128 | 1088368 | 36.87 ug/ml | 97 |
| 34) 4-Chloroaniline | 4.113 | 127 | 460276 | 37.02 ug/ml | 99 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181814.D
Acq On : 18 Sep 2018 6:04 pm
Operator : EB
Sample : 40ug/ml BNA
Misc : 300-0390G
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 07:35:34 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) 2,6-Dichlorophenol | 4.119 | 162 | 347360 | 40.98 ug/ml | 99 |
| 36) Hexachlorobutadiene | 4.149 | 225 | 243918 | 43.30 ug/ml | 94 |
| 37) Caprolactam | 4.331 | 55 | 155117 | 45.60 ug/ml | 96 |
| 38) 4-Chloro-3-methylphenol | 4.390 | 107 | 364019 | 39.39 ug/ml | 98 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 771483 | 37.60 ug/ml | 94 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 723204 | 37.20 ug/ml | 95 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 989098 | 39.69 ug/ml | 97 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.331 | 232 | 216862 | 40.21 ug/ml | 98 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.360 | 232 | 230731 | 41.59 ug/ml | 95 |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 129285 | 42.16 ug/ml | 88 |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 147056 | 41.45 ug/ml | 91 |
| 46) 1,2-Dinitrobenzene | 5.054 | 168 | 98765 | 41.08 ug/ml | 90 |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 254254 | 40.89 ug/ml | 97 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 394985 | 34.15 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 253873 | 38.25 ug/ml | 99 |
| 51) 2,4,5-Trichlorophenol | 4.701 | 196 | 266550 | 38.00 ug/ml | 98 |
| 53) 2-Chloronaphthalene | 4.807 | 162 | 745303 | 34.69 ug/ml | 98 |
| 54) 2-Nitroaniline | 4.866 | 65 | 277803 | 40.13 ug/ml | 96 |
| 55) Dimethylphthalate | 4.966 | 163 | 909287 | 36.48 ug/ml | 100 |
| 56) Acenaphthylene | 5.066 | 152 | 1152535 | 34.74 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 205456 | 36.73 ug/ml | 87 |
| 58) 3-Nitroaniline | 5.125 | 138 | 201198 | 36.07 ug/ml | 98 |
| 59) Acenaphthene | 5.178 | 154 | 716790m | 31.43 ug/ml | |
| 60) 2,4-Dinitrophenol | 5.196 | 184 | 128366 | 37.96 ug/ml# | 99 |
| 61) Dibenzofuran | 5.284 | 168 | 1080374 | 34.49 ug/ml | 94 |
| 62) 4-Nitrophenol | 5.225 | 65 | 170757 | 33.54 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 269586 | 37.04 ug/ml | 90 |
| 64) Diethylphthalate | 5.413 | 149 | 924893 | 37.60 ug/ml | 99 |
| 65) Fluorene | 5.507 | 166 | 872064 | 33.93 ug/ml | 99 |
| 66) 4-Chlorophenyl phenyl ... | 5.496 | 204 | 450248 | 34.46 ug/ml | 98 |
| 67) 4-Nitroaniline | 5.519 | 138 | 208991 | 36.23 ug/ml# | 72 |
| 68) Atrazine | 5.919 | 200 | 274813 | Below Cal | 96 |
| 70) 4,6-Dinitro-2-methylph... | 5.537 | 198 | 159813 | 37.92 ug/ml | 97 |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 760556 | 37.93 ug/ml | 99 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 1135188 | 42.15 ug/ml | 96 |
| 74) 4-Bromophenyl phenyl e... | 5.819 | 248 | 245252 | 37.04 ug/ml | 95 |
| 75) Hexachlorobenzene | 5.872 | 284 | 274024 | 38.84 ug/ml | 93 |
| 76) Pentachlorophenol | 6.007 | 266 | 162996 | 43.00 ug/ml | 94 |
| 77) Phenanthrene | 6.154 | 178 | 1287008 | 36.87 ug/ml | 99 |
| 78) Anthracene | 6.190 | 178 | 1301495 | 37.32 ug/ml | 98 |
| 79) Carbazole | 6.301 | 167 | 1180866 | 38.01 ug/ml | 97 |
| 80) Di-n-butylphthalate | 6.519 | 149 | 1493717 | 41.33 ug/ml | 99 |
| 81) Fluoranthene | 7.060 | 202 | 1462947 | 35.99 ug/ml | 97 |
| 83) 3,3-Dimethylbenzidine | 7.919 | 212 | 922613 | 41.21 ug/ml | 98 |
| 84) Benzidine | 7.172 | 184 | 857547 | 45.29 ug/ml | 97 |
| 85) Pyrene | 7.266 | 202 | 1529354 | 39.08 ug/ml | 97 |
| 87) Butylbenzylphthalate | 7.919 | 149 | 770390 | 44.36 ug/ml | 97 |
| 88) Benzo[a]anthracene | 8.672 | 228 | 1497521 | 37.86 ug/ml | 99 |
| 89) 3,3'-Dichlorobenzidine | 8.636 | 252 | 571860 | 42.82 ug/ml | 98 |
| 90) Chrysene | 8.725 | 228 | 1514080 | 37.40 ug/ml | 96 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 1035034 | 44.29 ug/ml | 98 |

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181814.D
Acq On : 18 Sep 2018 6:04 pm
Operator : EB
Sample : 40ug/ml BNA
Misc : 300-0390G
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 07:35:34 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

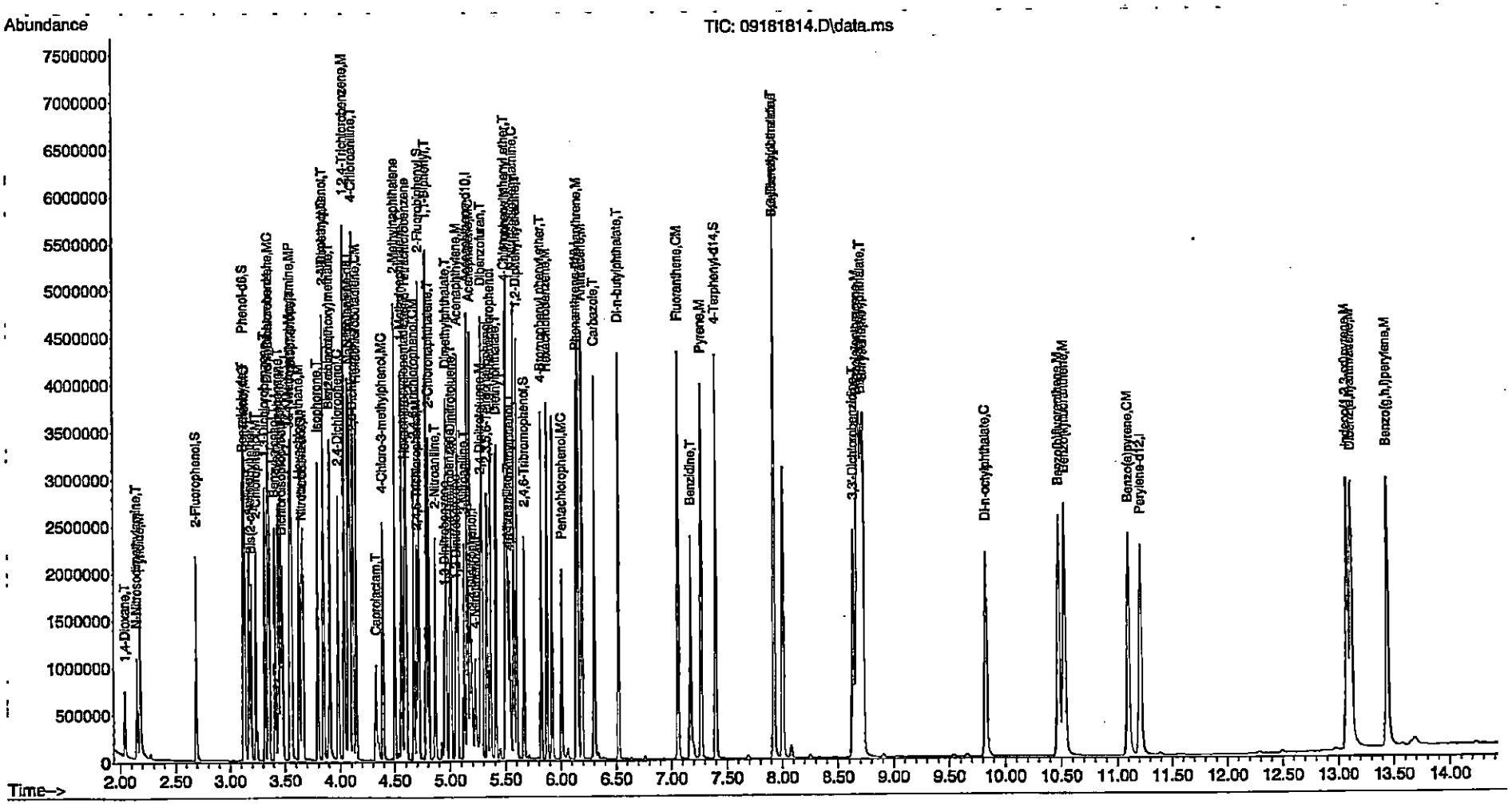
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) Di-n-octylphthalate | 9.825 | 149 | 1556737 | 39.45 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.478 | 252 | 1621954 | 36.42 ug/ml | 98 |
| 95) Benzo(k)fluoranthene | 10.530 | 252 | 1700400 | 36.29 ug/ml | 98 |
| 96) Benzo(a)pyrene | 11.101 | 252 | 1623249 | 39.08 ug/ml | 98 |
| 97) Indeno(1,2,3-cd)pyrene | 13.077 | 276 | 1621257 | 38.54 ug/ml | 98 |
| 98) Dibenz(a,h)anthracene | 13.119 | 278 | 1759355 | 38.11 ug/ml | 97 |
| 99) Benzo(g,h,i)perylene | 13.442 | 276 | 1803167 | 38.94 ug/ml | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181814.D
Acq On : 18 Sep 2018 6:04 pm
Operator : EB
Sample : 40ug/ml BNA
Misc : 300-0390G
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 07:35:34 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration




7S091818.M Tue Oct 16 13:41:58 2018

Page: 4

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181815.D
Acq On : 18 Sep 2018 6:25 pm
Operator : EB
Sample : 50ug/ml BNA
Misc : 300-0390H
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 07:35:38 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 469156 | 40.00 | ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1047870 | 40.00 | ug/ml | -0.02 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 611659 | 40.00 | ug/ml | -0.02 |
| 69) Phenanthrene-d10 | 6.143 | 188 | 1104370 | 40.00 | ug/ml | -0.02 |
| 82) Chrysene-d12 | 8.695 | 240 | 1099122 | 40.00 | ug/ml | -0.04 |
| 92) Perylene-d12 | 11.225 | 264 | 1110687 | 40.00 | ug/ml | -0.05 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 426978 | 45.56 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 91.12%# | | | |
| 7) Phenol-d6 | 3.125 | 99 | 536778 | 44.02 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 88.04%# | | | |
| 23) Nitrobenzene-d5 | 3.649 | 82 | 616709 | 47.38 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 94.76% | | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 1135241 | 46.54 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 93.08% | | | |
| 73) 2,4,6-Tribromophenol | 5.672 | 330 | 185051 | 60.65 | ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 121.30% | | | |
| 86) 4-Terphenyl-d14 | 7.401 | 244 | 1335395 | 50.30 | ug/ml | -0.03 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 100.60% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Pyridine | 2.172 | 79 | 550044 | 48.88 | ug/ml | 94 |
| 3) 1,4-Dioxane | 2.037 | 88 | 228501 | 52.20 | ug/ml | 97 |
| 4) N-Nitrosodimethylamine | 2.149 | 42 | 346768 | 58.39 | ug/ml | 86 |
| 6) Benzaldehyde | 3.119 | 77 | 337213 | 47.27 | ug/ml | 95 |
| 8) Phenol | 3.131 | 94 | 570333 | 43.72 | ug/ml | 86 |
| 9) Aniline | 3.172 | 93 | 682185m | 41.98 | ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 454682m | 49.27 | ug/ml | |
| 11) 2-Chlorophenol | 3.231 | 128 | 452636 | 44.84 | ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 518584 | 47.79 | ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 543392 | 48.95 | ug/ml | 98 |
| 14) Benzyl alcohol | 3.407 | 108 | 289566 | 47.43 | ug/ml | 89 |
| 15) 1,2-Dichlorobenzene | 3.437 | 146 | 496233 | 47.62 | ug/ml | 100 |
| 16) 2-Methylphenol | 3.460 | 107 | 383184m | 47.28 | ug/ml | |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 549593 | 37.93 | ug/ml | 79 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 494382 | 46.31 | ug/ml | 92 |
| 19) Acetophenone | 3.560 | 105 | 686169 | 46.63 | ug/ml | 91 |
| 20) N-Nitrosodi-n-propylamine | 3.549 | 70 | 409320 | 49.19 | ug/ml | 98 |
| 21) Hexachloroethane | 3.625 | 117 | 239062 | 53.50 | ug/ml | 93 |
| 24) Nitrobenzene | 3.660 | 123 | 228348 | 46.27 | ug/ml | 86 |
| 25) Isophorone | 3.796 | 82 | 1031532 | 51.02 | ug/ml | 98 |
| 26) 2-Nitrophenol | 3.843 | 139 | 266557 | 50.38 | ug/ml | 90 |
| 27) 2,4-Dimethylphenol | 3.849 | 107 | 541592 | 50.91 | ug/ml | 95 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 551129 | 45.04 | ug/ml | 98 |
| 29) Benzoic acid | 3.913 | 122 | 252390 | 43.87 | ug/ml | 91 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 412978 | 51.41 | ug/ml | 97 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 502427 | 53.37 | ug/ml | 97 |
| 33) Naphthalene | 4.084 | 128 | 1321005 | 45.25 | ug/ml | 98 |
| 34) 4-Chloroaniline | 4.113 | 127 | 565431 | 45.40 | ug/ml | 98 |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181815.D
Acq On : 18 Sep 2018 6:25 pm
Operator : EB
Sample : 50ug/ml BNA
Misc : 300-0390H
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 07:35:38 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) 2,6-Dichlorophenol | 4.113 | 162 | 434063 | 52.12 ug/ml | 98 |
| 36) Hexachlorobutadiene | 4.149 | 225 | 310795 | 56.17 ug/ml | 95 |
| 37) Caprolactam | 4.331 | 55 | 183182 | 53.63 ug/ml | 96 |
| 38) 4-Chloro-3-methylphenol | 4.390 | 107 | 444849 | 47.91 ug/ml | 98 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 944446 | 46.61 ug/ml | 93 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 897274 | 46.63 ug/ml | 95 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 1178729 | 48.20 ug/ml | 99 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.337 | 232 | 276963 | 51.17 ug/ml | 99 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.360 | 232 | 288160 | 51.97 ug/ml | 97 |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 158735 | 50.07 ug/ml | 85 |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 181313 | 49.88 ug/ml | 95 |
| 46) 1,2-Dinitrobenzene | 5.054 | 168 | 120721 | 49.54 ug/ml | 88 |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 338774 | 51.42 ug/ml | 98 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 515134 | 46.13 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 334556 | 50.28 ug/ml | 95 |
| 51) 2,4,5-Trichlorophenol | 4.696 | 196 | 338236 | 48.66 ug/ml | 96 |
| 53) 2-Chloronaphthalene | 4.807 | 162 | 930159 | 44.90 ug/ml | 97 |
| 54) 2-Nitroaniline | 4.866 | 65 | 331272 | 47.19 ug/ml | 94 |
| 55) Dimethylphthalate | 4.966 | 163 | 1084210 | 45.08 ug/ml | 99 |
| 56) Acenaphthylene | 5.066 | 152 | 1407231 | 43.89 ug/ml | 100 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 247943 | 44.73 ug/ml | 87 |
| 58) 3-Nitroaniline | 5.125 | 138 | 235081 | 42.23 ug/ml | 98 |
| 59) Acenaphthene | 5.178 | 154 | 861886m | 39.16 ug/ml | |
| 60) 2,4-Dinitrophenol | 5.196 | 184 | 153519 | 44.45 ug/ml# | 94 |
| 61) Dibenzofuran | 5.284 | 168 | 1324873 | 43.87 ug/ml | 96 |
| 62) 4-Nitrophenol | 5.225 | 65 | 199822 | 39.00 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 328265 | 44.88 ug/ml | 94 |
| 64) Diethylphthalate | 5.413 | 149 | 1123336 | 45.99 ug/ml | 99 |
| 65) Fluorene | 5.507 | 166 | 1064181 | 42.90 ug/ml | 99 |
| 66) 4-Chlorophenyl phenyl ... | 5.495 | 204 | 572024 | 45.35 ug/ml | 100 |
| 67) 4-Nitroaniline | 5.525 | 138 | 242294 | 41.80 ug/ml# | 76 |
| 68) Atrazine | 5.925 | 200 | 325925 | Below Cal | 95 |
| 70) 4,6-Dinitro-2-methylph... | 5.543 | 198 | 194357 | 45.71 ug/ml | 96 |
| 71) N-Nitrosodiphenylamine | 5.578 | 169 | 915502 | 47.87 ug/ml | 99 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 1311511 | 51.01 ug/ml | 97 |
| 74) 4-Bromophenyl phenyl e... | 5.825 | 248 | 316688 | 50.08 ug/ml | 98 |
| 75) Hexachlorobenzene | 5.878 | 284 | 358750 | 53.29 ug/ml | 98 |
| 76) Pentachlorophenol | 6.007 | 266 | 198876 | 52.32 ug/ml | 95 |
| 77) Phenanthrene | 6.160 | 178 | 1551219 | 46.66 ug/ml | 99 |
| 78) Anthracene | 6.195 | 178 | 1595422 | 47.81 ug/ml | 99 |
| 79) Carbazole | 6.307 | 167 | 1336647 | 44.41 ug/ml | 97 |
| 80) Di-n-butylphthalate | 6.525 | 149 | 1729070 | 47.87 ug/ml | 99 |
| 81) Fluoranthene | 7.066 | 202 | 1672676 | 43.08 ug/ml | 96 |
| 83) 3,3-Dimethylbenzidine | 7.931 | 212 | 1047889 | 50.35 ug/ml | 98 |
| 84) Benzidine | 7.178 | 184 | 962512 | 55.23 ug/ml | 96 |
| 85) Pyrene | 7.278 | 202 | 1751612 | 51.97 ug/ml | 96 |
| 87) Butylbenzylphthalate | 7.931 | 149 | 804985 | 51.35 ug/ml | 95 |
| 88) Benzo[a]anthracene | 8.678 | 228 | 1578299 | 45.88 ug/ml | 97 |
| 89) 3,3'-Dichlorobenzidine | 8.648 | 252 | 619265 | 51.18 ug/ml | 99 |
| 90) Chrysene | 8.736 | 228 | 1605201 | 46.80 ug/ml | 96 |
| 91) Bis(2-ethylhexyl)phtha... | 8.719 | 149 | 1074661 | 50.80 ug/ml | 99 |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181815.D
Acq On : 18 Sep 2018 6:25 pm
Operator : EB
Sample : 50ug/ml BNA
Misc : 300-0390H
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 07:35:38 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

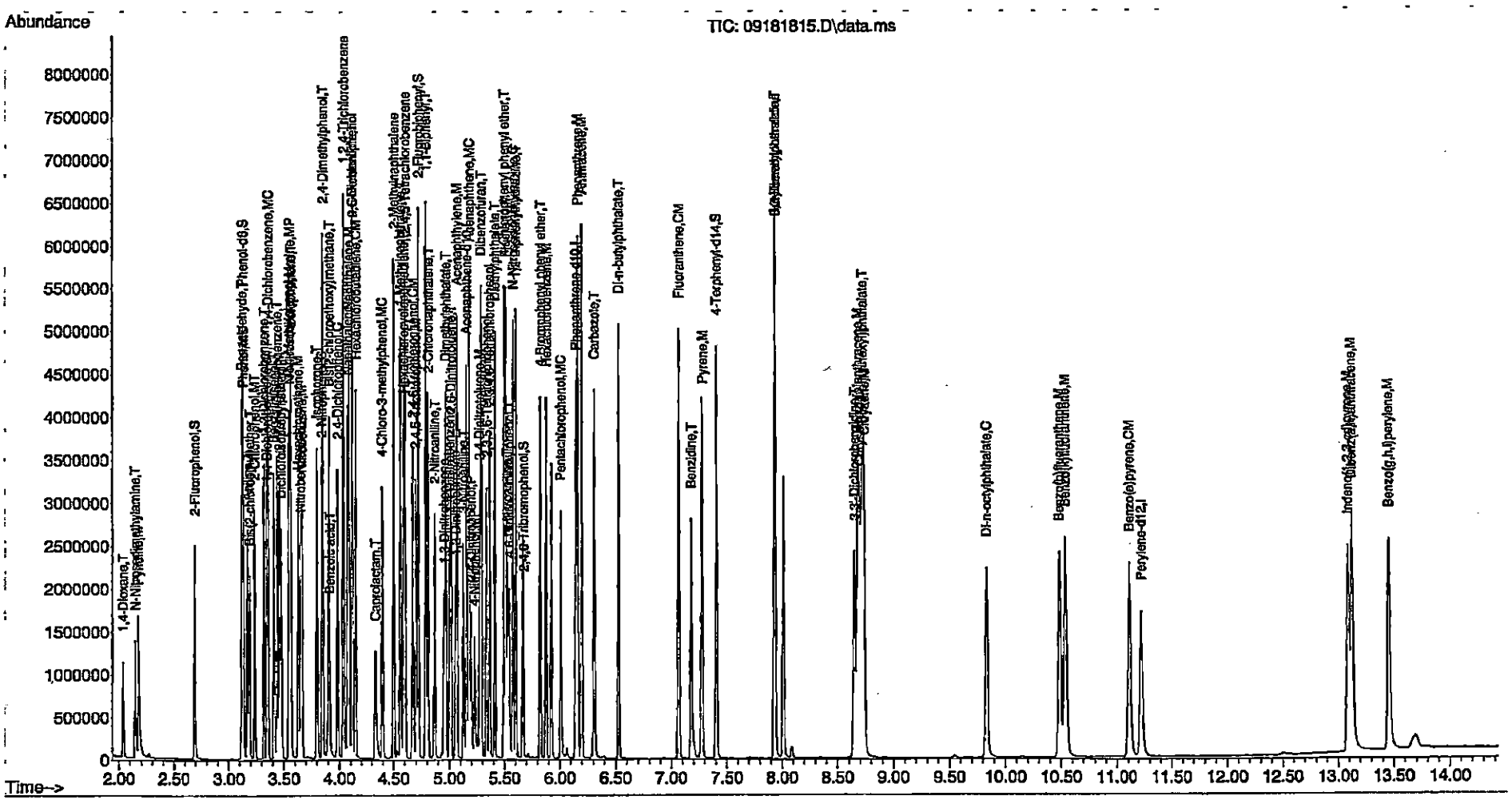
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) Di-n-octylphthalate | 9.831 | 149 | 1566118 | 46.19 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.483 | 252 | 1653499 | 45.82 ug/ml | 97 |
| 95) Benzo(k)fluoranthene | 10.536 | 252 | 1701078 | 45.39 ug/ml | 97 |
| 96) Benzo(a)pyrene | 11.113 | 252 | 1589418 | 46.61 ug/ml | 97 |
| 97) Indeno(1,2,3-cd)pyrene | 13.089 | 276 | 1608090m | 47.20 ug/ml | |
| 98) Dibenz(a,h)anthracene | 13.124 | 278 | 1744565 | 47.33 ug/ml | 95 |
| 99) Benzo(g,h,i)perylene | 13.460 | 276 | 1766185 | 48.20 ug/ml | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181815.D
Acq On : 18 Sep 2018 6:25 pm
Operator : EB
Sample : 50ug/ml BNA
Misc : 300-0390H
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 07:35:38 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181816.D
Acq On : 18 Sep 2018 6:45 pm
Operator : EB
Sample : 60ug/ml BNA
Misc : 300-0390I
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 19 07:35:42 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 464128 | 40.00 ug/ml | -0.02 |
| 22) Naphthalene-d8 | 4.072 | 136 | 972360 | 40.00 ug/ml | -0.02 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 606204 | 40.00 ug/ml | -0.02 |
| 69) Phenanthrene-d10 | 6.137 | 188 | 1181803 | 40.00 ug/ml | -0.03 |
| 82) Chrysene-d12 | 8.689 | 240 | 1408356 | 40.00 ug/ml | -0.05 |
| 92) Perylene-d12 | 11.213 | 264 | 1462675 | 40.00 ug/ml | -0.06 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 499754 | 53.96 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 107.92%# | | |
| 7) Phenol-d6 | 3.125 | 99 | 621467 | 51.55 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 103.10%# | | |
| 23) Nitrobenzene-d5 | 3.654 | 82 | 711622 | 57.14 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 114.28% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 1423217 | 57.39 ug/ml | -0.02 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 114.78% | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 279827 | 78.34 ug/ml | -0.03 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 156.68% | | |
| 86) 4-Terphenyl-d14 | 7.395 | 244 | 2127631 | 61.71 ug/ml | -0.04 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 123.42% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Pyridine | 2.178 | 79 | 601170 | 54.00 ug/ml | 92 |
| 3) 1,4-Dioxane | 2.037 | 88 | 245184 | 57.48 ug/ml | 96 |
| 4) N-Nitrosodimethylamine | 2.149 | 42 | 392195 | 67.14 ug/ml | 84 |
| 6) Benzaldehyde | 3.119 | 77 | 316025 | 44.66 ug/ml | 95 |
| 8) Phenol | 3.131 | 94 | 631538 | 49.68 ug/ml | 84 |
| 9) Aniline | 3.172 | 93 | 732011m | 46.05 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 515618m | 57.05 ug/ml | |
| 11) 2-Chlorophenol | 3.237 | 128 | 504972 | 51.18 ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 590825 | 56.32 ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.355 | 146 | 606028 | 56.31 ug/ml | 99 |
| 14) Benzyl alcohol | 3.407 | 108 | 322354 | 53.32 ug/ml | 89 |
| 15) 1,2-Dichlorobenzene | 3.443 | 146 | 570961 | 56.73 ug/ml | 98 |
| 16) 2-Methylphenol | 3.460 | 107 | 419393 | 52.31 ug/ml | 96 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 576260 | 40.43 ug/ml | 76 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 535635 | 50.72 ug/ml | 92 |
| 19) Acetophenone | 3.560 | 105 | 760160 | 52.24 ug/ml | 93 |
| 20) N-Nitrosodi-n-propylamine | 3.549 | 70 | 445492 | 54.08 ug/ml | 95 |
| 21) Hexachloroethane | 3.631 | 117 | 264123 | 60.37 ug/ml | 88 |
| 24) Nitrobenzene | 3.666 | 123 | 251839 | 53.64 ug/ml | 86 |
| 25) Isophorone | 3.796 | 82 | 1130997 | 58.25 ug/ml | 98 |
| 26) 2-Nitrophenol | 3.843 | 139 | 292384 | 57.60 ug/ml | 89 |
| 27) 2,4-Dimethylphenol | 3.849 | 107 | 591877 | 57.93 ug/ml | 95 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 593235 | 52.18 ug/ml | 98 |
| 29) Benzoic acid | 3.913 | 122 | 303391 | 52.99 ug/ml | 90 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 476080 | 62.21 ug/ml | 97 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 601385 | 68.75 ug/ml | 97 |
| 33) Naphthalene | 4.084 | 128 | 1469266 | 53.75 ug/ml | 98 |
| 34) 4-Chloroaniline | 4.113 | 127 | 647717 | 54.75 ug/ml | 99 |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181816.D
Acq On : 18 Sep 2018 6:45 pm
Operator : EB
Sample : 60ug/ml BNA
Misc : 300-0390I
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 19 07:35:42 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) 2,6-Dichlorophenol | 4.113 | 162 | 512094 | 66.16 ug/ml | 97 |
| 36) Hexachlorobutadiene | 4.149 | 225 | 366184 | 71.24 ug/ml | 95 |
| 37) Caprolactam | 4.331 | 55 | 216404 | 65.92 ug/ml | 95 |
| 38) 4-Chloro-3-methylphenol | 4.396 | 107 | 495736 | 56.22 ug/ml | 99 |
| 39) 2-Methylnaphthalene | 4.502 | 142 | 1086127 | 57.29 ug/ml | 94 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 1016768 | 56.40 ug/ml | 96 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 1393949 | 61.38 ug/ml | 98 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.337 | 232 | 353179 | 67.97 ug/ml | 99 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.360 | 232 | 375708 | 70.60 ug/ml | 98 |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 201877 | 63.22 ug/ml | 83 |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 224877 | 62.63 ug/ml | 98 |
| 46) 1,2-Dinitrobenzene | 5.054 | 168 | 148071 | 62.38 ug/ml | 84 |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 400850 | 58.04 ug/ml | 98 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 617768 | 55.73 ug/ml | 98 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 390153 | 57.73 ug/ml | 97 |
| 51) 2,4,5-Trichlorophenol | 4.696 | 196 | 409902 | 58.03 ug/ml | 96 |
| 53) 2-Chloronaphthalene | 4.801 | 162 | 1092222 | 53.14 ug/ml | 95 |
| 54) 2-Nitroaniline | 4.866 | 65 | 391067 | 53.69 ug/ml | 95 |
| 55) Dimethylphthalate | 4.966 | 163 | 1340991 | 56.14 ug/ml | 100 |
| 56) Acenaphthylene | 5.066 | 152 | 1671127 | 52.47 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 302946 | 53.49 ug/ml | 91 |
| 58) 3-Nitroaniline | 5.125 | 138 | 286675 | 49.78 ug/ml | 95 |
| 59) Acenaphthene | 5.178 | 154 | 1051640m | 48.10 ug/ml | |
| 60) 2,4-Dinitrophenol | 5.196 | 184 | 218131 | 57.26 ug/ml# | 98 |
| 61) Dibenzofuran | 5.284 | 168 | 1608740 | 53.70 ug/ml | 98 |
| 62) 4-Nitrophenol | 5.225 | 65 | 266491 | 48.73 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 419244 | 54.88 ug/ml | 98 |
| 64) Diethylphthalate | 5.413 | 149 | 1386236 | 55.37 ug/ml | 99 |
| 65) Fluorene | 5.507 | 166 | 1343813 | 54.53 ug/ml | 99 |
| 66) 4-Chlorophenyl phenyl ... | 5.496 | 204 | 721126 | 57.57 ug/ml | 97 |
| 67) 4-Nitroaniline | 5.525 | 138 | 308509 | 50.42 ug/ml# | 69 |
| 68) Atrazine | 5.919 | 200 | 457724 | Below Cal | 95 |
| 70) 4,6-Dinitro-2-methylph... | 5.537 | 198 | 273547 | 55.93 ug/ml | 93 |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 1183298 | 57.70 ug/ml | 99 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 1515013 | 55.00 ug/ml | 96 |
| 74) 4-Bromophenyl phenyl e... | 5.819 | 248 | 417147 | 61.51 ug/ml | 98 |
| 75) Hexachlorobenzene | 5.872 | 284 | 484419 | 67.12 ug/ml | 95 |
| 76) Pentachlorophenol | 6.007 | 266 | 290366 | 66.27 ug/ml | 97 |
| 77) Phenanthrene | 6.154 | 178 | 2068177 | 58.08 ug/ml | 99 |
| 78) Anthracene | 6.190 | 178 | 2124665 | 59.24 ug/ml | 99 |
| 79) Carbazole | 6.301 | 167 | 1883436 | 56.53 ug/ml | 96 |
| 80) Di-n-butylphthalate | 6.519 | 149 | 2329824 | 56.61 ug/ml | 99 |
| 81) Fluoranthene | 7.060 | 202 | 2457361 | 58.81 ug/ml | 95 |
| 83) 3,3-Dimethylbenzidine | 7.925 | 212 | 1607448 | 56.74 ug/ml | 98 |
| 84) Benzidine | 7.172 | 184 | 1468071 | 62.24 ug/ml | 96 |
| 85) Pyrene | 7.266 | 202 | 2549741 | 58.54 ug/ml | 95 |
| 87) Butylbenzylphthalate | 7.925 | 149 | 1224887 | 57.71 ug/ml | 94 |
| 88) Benzo[a]anthracene | 8.672 | 228 | 2405074 | 53.26 ug/ml | 97 |
| 89) 3,3'-Dichlorobenzidine | 8.637 | 252 | 970883 | 58.99 ug/ml | 98 |
| 90) Chrysene | 8.725 | 228 | 2492771 | 56.71 ug/ml | 96 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 1646287 | 57.14 ug/ml | 99 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181816.D
Acq On : 18 Sep 2018 6:45 pm
Operator : EB
Sample : 60ug/ml BNA
Misc : 300-0390I
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 19 07:35:42 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration

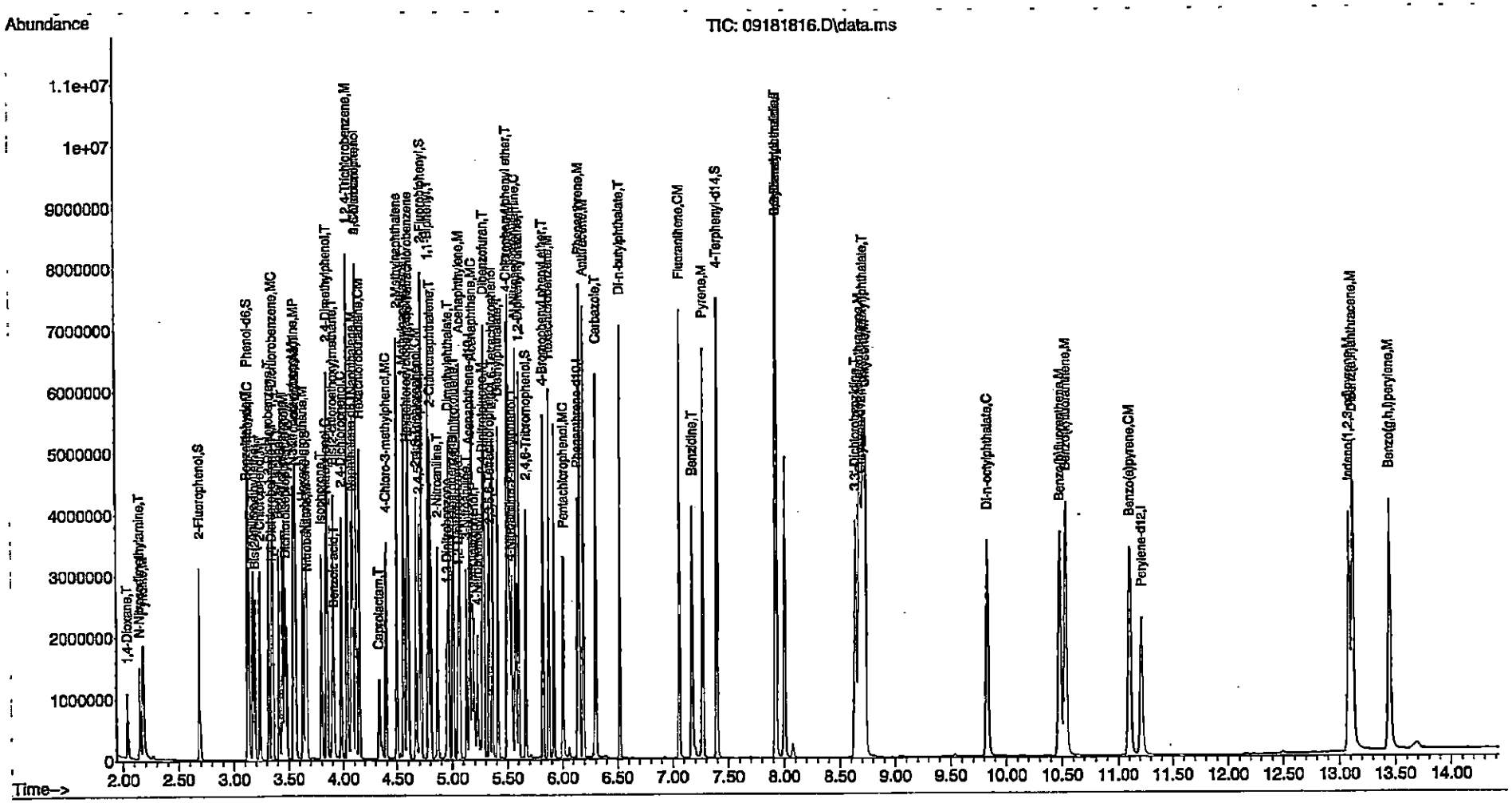
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) Di-n-octylphthalate | 9.825 | 149 | 2554296 | 52.65 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.483 | 252 | 2570335 | 52.71 ug/ml | 97 |
| 95) Benzo(k)fluoranthene | 10.536 | 252 | 2655788 | 52.84 ug/ml | 96 |
| 96) Benzo(a)pyrene | 11.101 | 252 | 2522269 | 53.73 ug/ml | 96 |
| 97) Indeno(1,2,3-cd)pyrene | 13.083 | 276 | 2542498 | 54.94 ug/ml | 93 |
| 98) Dibenz(a,h)anthracene | 13.119 | 278 | 2733803 | 55.32 ug/ml | 94 |
| 99) Benzo(g,h,i)perylene | 13.448 | 276 | 2739942 | 56.19 ug/ml | 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181816.D
Acq On : 18 Sep 2018 6:45 pm
Operator : EB
Sample : 60ug/ml BNA
Misc : 300-0390I
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 19 07:35:42 2018
Quant Method : C:\msdchem\1\methods\7S072418.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Jul 25 11:52:02 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
Operator : EB
Sample : ICV 20ug/ml BNA
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 410161 | 40.00 ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 971375 | 40.00 ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 643770 | 40.00 ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.137 | 188 | 1298309 | 40.00 ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.689 | 240 | 1438225 | 40.00 ug/ml | 0.00 |
| 92) Perylene-d12 | 11.219 | 264 | 1475118 | 40.00 ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 145885 | 19.00 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 38.00% | | |
| 7) Phenol-d6 | 3.125 | 99 | 182752 | 18.77 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 37.54% | | |
| 23) Nitrobenzene-d5 | 3.649 | 82 | 216253 | 19.71 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 39.42% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 447467 | 20.22 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 40.44% | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 83871m | 23.87 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 47.74% | | |
| 86) 4-Terphenyl-d14 | 7.395 | 244 | 661378 | 20.66 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 41.32% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Pyridine | 2.178 | 79 | 187040 | 18.11 ug/ml | 91 |
| 3) 1,4-Dioxane | 2.043 | 88 | 77440 | 16.53 ug/ml | 96 |
| 4) N-Nitrosodimethylamine | 2.149 | 42 | 122284 | 20.89 ug/ml | 87 |
| 6) Benzaldehyde | 3.119 | 77 | 91655 | 18.23 ug/ml | 94 |
| 8) Phenol | 3.131 | 94 | 194372 | 18.37 ug/ml | 84 |
| 9) Aniline | 3.166 | 93 | 234488m | 18.71 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 153068m | 16.73 ug/ml | |
| 11) 2-Chlorophenol | 3.231 | 128 | 154516 | 18.30 ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 187398 | 19.57 ug/ml | 98 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 194687 | 19.80 ug/ml | 99 |
| 14) Benzyl alcohol | 3.407 | 108 | 98793 | 19.80 ug/ml | 87 |
| 15) 1,2-Dichlorobenzene | 3.443 | 146 | 181437 | 19.68 ug/ml | 99 |
| 16) 2-Methylphenol | 3.460 | 107 | 130596 | 20.66 ug/ml | 97 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 189485 | 18.10 ug/ml | 81 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 170958 | 20.41 ug/ml | 88 |
| 19) Acetophenone | 3.560 | 105 | 256261 | 20.39 ug/ml | 94 |
| 20) N-Nitrosodi-n-propylamine | 3.549 | 70 | 144344 | 19.47 ug/ml | 95 |
| 21) Hexachloroethane | 3.625 | 117 | 84992 | 18.84 ug/ml | 89 |
| 24) Nitrobenzene | 3.660 | 123 | 81710 | 19.61 ug/ml | 85 |
| 25) Isophorone | 3.796 | 82 | 371235 | 20.30 ug/ml | 98 |
| 26) 2-Nitrophenol | 3.843 | 139 | 91972 | 20.27 ug/ml | 85 |
| 27) 2,4-Dimethylphenol | 3.849 | 107 | 187100 | 19.77 ug/ml | 95 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 195296 | 19.98 ug/ml | 98 |
| 29) Benzoic acid | 3.896 | 122 | 83122 | 22.99 ug/ml | 90 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 153518 | 21.80 ug/ml | 96 |
| 31) 1,2,4-Trichlorobenzene | 4.031 | 180 | 186256 | 21.13 ug/ml | 98 |
| 32) 4-Chlorophenol | 4.037 | 128 | 160891 | 20.07 ug/ml | 86 |
| 33) Naphthalene | 4.084 | 128 | 486051 | 19.49 ug/ml | 97 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
Operator : EB
Sample : ICV 20ug/ml BNA
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chloroaniline | 4.113 | 127 | 204261 | 20.40 ug/ml | 98 |
| 35) 2,6-Dichlorophenol | 4.113 | 162 | 158054 | 21.46 ug/ml | 97 |
| 36) Hexachlorobutadiene | 4.149 | 225 | 114287 | 21.38 ug/ml | 94 |
| 37) Caprolactam | 4.325 | 55 | 75103 | 23.68 ug/ml | 97 |
| 38) 4-Chloro-3-methylphenol | 4.390 | 107 | 163310 | 20.72 ug/ml | 99 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 353958 | 20.90 ug/ml | 93 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 334611 | 20.68 ug/ml | 95 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 471378 | 22.20 ug/ml | 98 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.331 | 232 | 103851m | 23.22 ug/ml | |
| 43) 2,3,4,6-Tetrachlorophenol | 5.360 | 232 | 113002m | 23.83 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 64160 | 23.81 ug/ml | 86 |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 73102 | 22.90 ug/ml | 97 |
| 46) 1,2-Dinitrobenzene | 5.049 | 168 | 51780 | 23.95 ug/ml | 81 |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 117621 | 22.03 ug/ml | 99 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 194945 | 20.30 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 124997 | 21.13 ug/ml | 96 |
| 51) 2,4,5-Trichlorophenol | 4.701 | 196 | 134704 | 21.50 ug/ml | 95 |
| 53) 2-Chloronaphthalene | 4.801 | 162 | 357688 | 19.53 ug/ml | 97 |
| 54) 2-Nitroaniline | 4.866 | 65 | 127889 | 19.98 ug/ml | 95 |
| 55) Dimethylphthalate | 4.966 | 163 | 461869 | 21.20 ug/ml | 99 |
| 56) Acenaphthylene | 5.066 | 152 | 550789 | 19.50 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 102030 | 20.66 ug/ml | 89 |
| 58) 3-Nitroaniline | 5.125 | 138 | 95848 | 18.94 ug/ml | 97 |
| 59) Acenaphthene | 5.172 | 154 | 341768 | 19.55 ug/ml | 96 |
| 60) 2,4-Dinitrophenol | 5.196 | 184 | 62735 | 23.26 ug/ml# | 93 |
| 61) Dibenzofuran | 5.284 | 168 | 544945 | 20.45 ug/ml | 96 |
| 62) 4-Nitrophenol | 5.225 | 65 | 71202 | 19.87 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 144476 | 22.25 ug/ml | 99 |
| 64) Diethylphthalate | 5.407 | 149 | 481032 | 21.45 ug/ml | 99 |
| 65) Fluorene | 5.507 | 166 | 445829 | 21.26 ug/ml | 100 |
| 66) 4-Chlorophenyl phenyl ... | 5.496 | 204 | 236373 | 21.71 ug/ml | 99 |
| 67) 4-Nitroaniline | 5.519 | 138 | 102041 | 19.02 ug/ml# | 68 |
| 68) Atrazine | 5.919 | 200 | 158325 | 23.88 ug/ml | 96 |
| 70) 4,6-Dinitro-2-methylph... | 5.537 | 198 | 94051m | 23.88 ug/ml | |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 395111 | 19.73 ug/ml | 100 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 540791 | 17.21 ug/ml | 97 |
| 74) 4-Bromophenyl phenyl e... | 5.819 | 248 | 141044 | 22.01 ug/ml | 99 |
| 75) Hexachlorobenzene | 5.872 | 284 | 165789 | 23.24 ug/ml | 97 |
| 76) Pentachlorophenol | 6.007 | 266 | 88096 | 23.09 ug/ml | 97 |
| 77) Phenanthrene | 6.154 | 178 | 696938 | 19.30 ug/ml | 100 |
| 78) Anthracene | 6.190 | 178 | 709899 | 20.74 ug/ml | 100 |
| 79) Carbazole | 6.301 | 167 | 636360 | 20.51 ug/ml | 97 |
| 80) Di-n-butylphthalate | 6.519 | 149 | 796957 | 20.89 ug/ml | 99 |
| 81) Fluoranthene | 7.060 | 202 | 810777 | 21.77 ug/ml | 96 |
| 83) 3,3-Dimethylbenzidine | 7.919 | 212 | 424723 | 20.49 ug/ml | 98 |
| 84) Benzidine | 7.172 | 184 | 404848 | 20.90 ug/ml | 95 |
| 85) Pyrene | 7.266 | 202 | 845046 | 20.87 ug/ml | 96 |
| 87) Butylbenzylphthalate | 7.919 | 149 | 386710 | 20.32 ug/ml | 94 |
| 88) Benzo[a]anthracene | 8.672 | 228 | 840028 | 21.19 ug/ml | 97 |
| 89) 3,3'-Dichlorobenzidine | 8.637 | 252 | 289380 | 21.03 ug/ml | 97 |
| 90) Chrysene | 8.725 | 228 | 804392 | 19.16 ug/ml | 96 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
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Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 530048 | 20.67 ug/ml | 98 |
| 93) Di-n-octylphthalate | 9.825 | 149 | 714711 | 21.53 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.472 | 252 | 792260 | 20.24 ug/ml | 97 |
| 95) Benzo(k)fluoranthene | 10.531 | 252 | 851161 | 20.41 ug/ml | 97 |
| 96) Benzo(a)pyrene | 11.101 | 252 | 765861 | 20.41 ug/ml | 97 |
| 97) Indeno(1,2,3-cd)pyrene | 13.083 | 276 | 767314 | 20.75 ug/ml | 94 |
| 98) Dibenz(a,h)anthracene | 13.119 | 278 | 829787 | 20.27 ug/ml | 96 |
| 99) Benzo(g,h,i)perylene | 13.448 | 276 | 847877 | 19.95 ug/ml | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
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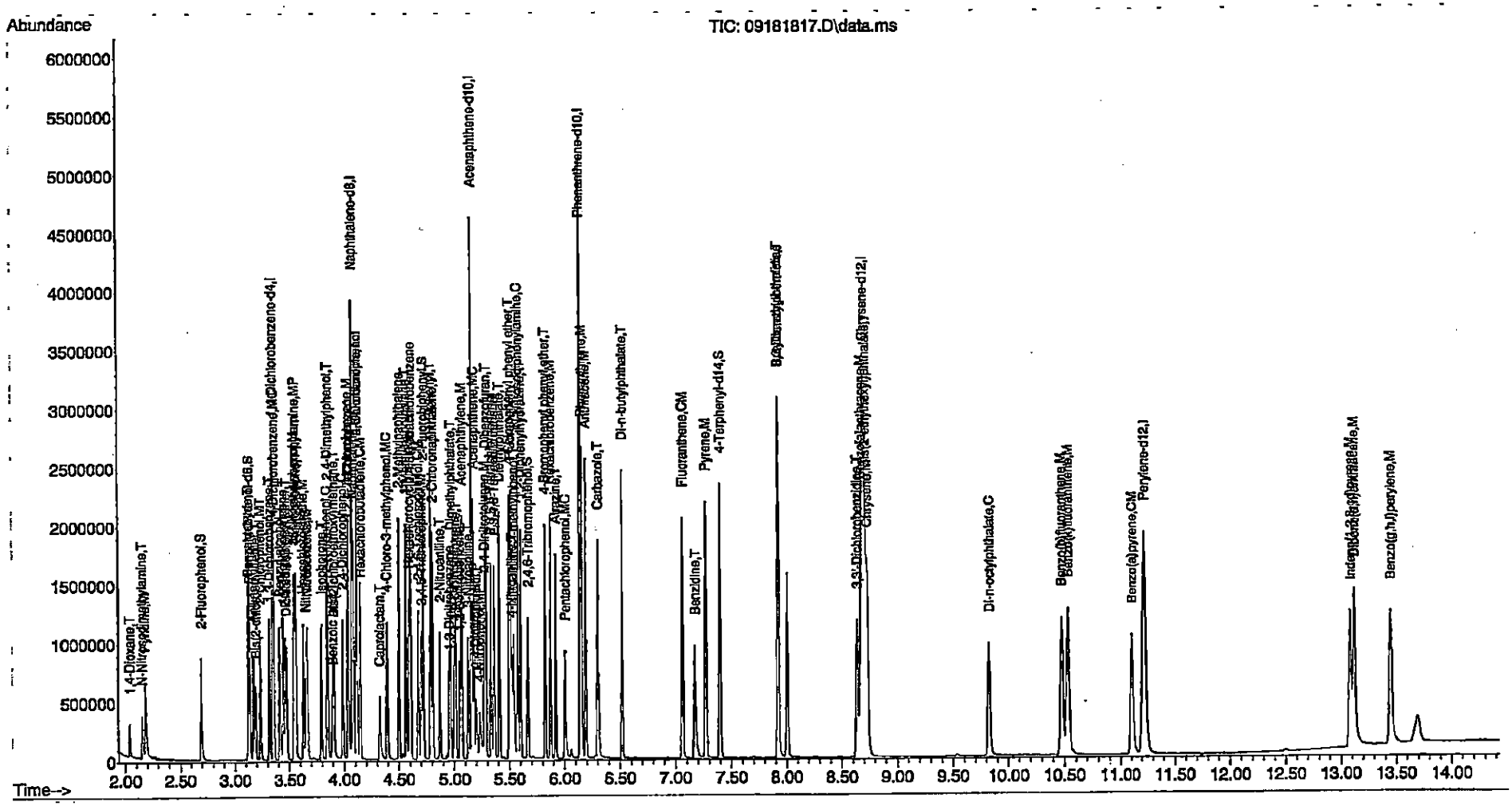
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration




7S091818.M Tue Oct 16 13:43:41 2018

Page: 4

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
Operator : EB
Sample : ICV 20ug/ml BNA
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 40.000 | 40.000 | 0.0 | 91 | 0.00 |
| 2 | M | Pyridine | 20.000 | 18.105 | 9.5 | 86 | 0.00 |
| 3 | T | 1,4-Dioxane | 20.000 | 16.526 | 17.4 | 76 | 0.00 |
| 4 | T | N-Nitrosodimethylamine | 20.000 | 20.888 | -4.4 | 92 | 0.00 |
| 5 | S | 2-Fluorophenol | 20.000 | 19.002 | 5.0 | 85 | 0.00 |
| 6 | T | Benzaldehyde | 20.000 | 18.228 | 8.9 | 86 | 0.00 |
| 7 | S | Phenol-d6 | 20.000 | 18.767 | 6.2 | 85 | 0.00 |
| 8 | MC | Phenol | 20.000 | 18.369 | 8.2 | 83 | 0.00 |
| 9 | T | Aniline | 20.000 | 18.715 | 6.4 | 85 | 0.00 |
| 10 | T | Bis(2-chloroethyl)ether | 20.000 | 16.729 | 16.4 | 79 | 0.00 |
| 11 | MT | 2-Chlorophenol | 20.000 | 18.303 | 8.5 | 83 | 0.00 |
| 12 | T | 1,3-Dichlorobenzene | 20.000 | 19.572 | 2.1 | 90 | 0.00 |
| 13 | MC | 1,4-Dichlorobenzene | 20.000 | 19.801 | 1.0 | 92 | 0.00 |
| 14 | T | Benzyl alcohol | 20.000 | 19.802 | 1.0 | 90 | 0.00 |
| 15 | T | 1,2-Dichlorobenzene | 20.000 | 19.681 | 1.6 | 91 | 0.00 |
| 16 | M | 2-Methylphenol | 20.000 | 20.658 | -3.3 | 85 | 0.00 |
| 17 | T | Dichloroisopropyl ether | 20.000 | 18.104 | 9.5 | 85 | 0.00 |
| 18 | M | 3&4-Methylphenol | 20.000 | 20.413 | -2.1 | 86 | 0.00 |
| 19 | T | Acetophenone | 20.000 | 20.387 | -1.9 | 91 | 0.00 |
| 20 | MP | N-Nitrosodi-n-propylamine | 20.000 | 19.473 | 2.6 | 89 | 0.00 |
| 21 | M | Hexachloroethane | 20.000 | 18.835 | 5.8 | 87 | 0.00 |
| 22 | I | Naphthalene-d8 | 40.000 | 40.000 | 0.0 | 91 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 20.000 | 19.713 | 1.4 | 89 | 0.00 |
| 24 | M | Nitrobenzene | 20.000 | 19.611 | 1.9 | 89 | 0.00 |
| 25 | T | Isophorone | 20.000 | 20.299 | -1.5 | 91 | 0.00 |
| 26 | C | 2-Nitrophenol | 20.000 | 20.270 | -1.3 | 91 | 0.00 |
| 27 | T | 2,4-Dimethylphenol | 20.000 | 19.772 | 1.1 | 91 | 0.00 |
| 28 | T | Bis(2-chloroethoxy)methane | 20.000 | 19.975 | 0.1 | 85 | 0.00 |
| 29 | T | Benzoic acid | 20.000 | 22.988 | -14.9 | 110 | 0.00 |
| 30 | C | 2,4-Dichlorophenol | 20.000 | 21.802 | -9.0 | 100 | 0.00 |
| 31 | M | 1,2,4-Trichlorobenzene | 20.000 | 21.126 | -5.6 | 101 | 0.00 |
| 32 | | 4-Chlorophenol | 20.000 | 20.070 | -0.4 | 89 | 0.00 |
| 33 | M | Naphthalene | 20.000 | 19.493 | 2.5 | 89 | 0.00 |
| 34 | T | 4-Chloroaniline | 20.000 | 20.396 | -2.0 | 91 | 0.00 |
| 35 | | 2,6-Dichlorophenol | 20.000 | 21.458 | -7.3 | 98 | 0.00 |
| 36 | CM | Hexachlorobutadiene | 20.000 | 21.377 | -6.9 | 100 | 0.00 |
| 37 | T | Caprolactam | 20.000 | 23.681 | -18.4 | 101 | 0.00 |
| 38 | MC | 4-Chloro-3-methylphenol | 20.000 | 20.716 | -3.6 | 93 | 0.00 |
| 39 | | 2-Methylnaphthalene | 20.000 | 20.898 | -4.5 | 94 | 0.00 |
| 40 | T | 1-Methylnaphthalene | 20.000 | 20.679 | -3.4 | 94 | 0.00 |
| 41 | T | 1,1-Biphenyl | 20.000 | 22.203 | -11.0 | 102 | 0.00 |
| 42 | | 2,3,5,6-Tetrachlorophenol | 20.000 | 23.218 | -16.1 | 103 | 0.00 |
| 43 | | 2,3,4,6-Tetrachlorophenol | 20.000 | 23.828 | -19.1 | 105 | 0.00 |
| 44 | | 1,3-Dinitrobenzene | 20.000 | 23.809 | -19.0 | 102 | 0.00 |
| 45 | | 1,4-Dinitrobenzene | 20.000 | 22.899 | -14.5 | 100 | 0.00 |
| 46 | | 1,2-Dinitrobenzene | 20.000 | 23.945 | -19.7 | 105 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
Operator : EB
Sample : ICV 20ug/ml BNA
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | I | Acenaphthene-d10 | 40.000 | 40.000 | 0.0 | 101 | 0.00 |
| 48 | P | Hexachlorocyclopentadiene | 20.000 | 22.027 | -10.1 | 116 | 0.00 |
| 49 | | 1,2,4,5-Tetrachlorobenzene | 20.000 | 20.301 | -1.5 | 105 | 0.00 |
| 50 | CM | 2,4,6-Trichlorophenol | 20.000 | 21.129 | -5.6 | 104 | 0.00 |
| 51 | M | 2,4,5-Trichlorophenol | 20.000 | 21.501 | -7.5 | 111 | 0.00 |
| 52 | S | 2-Fluorobiphenyl | 20.000 | 20.216 | -1.1 | 102 | 0.00 |
| 53 | T | 2-Chloronaphthalene | 20.000 | 19.534 | 2.3 | 98 | 0.00 |
| 54 | T | 2-Nitroaniline | 20.000 | 19.984 | 0.1 | 95 | 0.00 |
| 55 | T | Dimethylphthalate | 20.000 | 21.202 | -6.0 | 102 | 0.00 |
| 56 | M | Acenaphthylene | 20.000 | 19.500 | 2.5 | 97 | 0.00 |
| 57 | T | 2,6-Dinitrotoluene | 20.000 | 20.660 | -3.3 | 102 | 0.00 |
| 58 | T | 3-Nitroaniline | 20.000 | 18.936 | 5.3 | 92 | 0.00 |
| 59 | MC | Acenaphthene | 20.000 | 19.549 | 2.3 | 90 | 0.00 |
| 60 | P | 2,4-Dinitrophenol | 20.000 | 23.264 | -16.3 | 117 | 0.00 |
| 61 | T | Dibenzofuran | 20.000 | 20.449 | -2.2 | 102 | 0.00 |
| 62 | MP | 4-Nitrophenol | 20.000 | 19.867 | 0.7 | 102 | 0.00 |
| 63 | M | 2,4-Dinitrotoluene | 20.000 | 22.252 | -11.3 | 108 | 0.00 |
| 64 | T | Diethylphthalate | 20.000 | 21.449 | -7.2 | 102 | 0.00 |
| 65 | M | Fluorene | 20.000 | 21.258 | -6.3 | 104 | 0.00 |
| 66 | T | 4-Chlorophenyl phenyl ether | 20.000 | 21.712 | -8.6 | 109 | 0.00 |
| 67 | T | 4-Nitroaniline | 20.000 | 19.020 | 4.9 | 90 | 0.00 |
| 68 | T | Atrazine | 20.000 | 23.881 | -19.4 | 113 | 0.00 |
| 69 | I | Phenanthrene-d10 | 40.000 | 40.000 | 0.0 | 106 | 0.00 |
| 70 | T | 4,6-Dinitro-2-methylphenol | 20.000 | 23.878 | -19.4 | 124 | 0.00 |
| 71 | C | N-Nitrosodiphenylamine | 20.000 | 19.733 | 1.3 | 105 | 0.00 |
| 72 | T | 1,2-Diphenylhydrazine | 20.000 | 17.215 | 13.9 | 93 | 0.00 |
| 73 | S | 2,4,6-Tribromophenol | 20.000 | 23.869 | -19.3 | 130 | 0.00 |
| 74 | T | 4-Bromophenyl phenyl ether | 20.000 | 22.011 | -10.1 | 117 | 0.00 |
| 75 | M | Hexachlorobenzene | 20.000 | 23.237 | -16.2 | 129 | 0.00 |
| 76 | MC | Pentachlorophenol | 20.000 | 23.085 | -15.4 | 122 | 0.00 |
| 77 | M | Phenanthrene | 20.000 | 19.303 | 3.5 | 106 | 0.00 |
| 78 | M | Anthracene | 20.000 | 20.736 | -3.7 | 107 | 0.00 |
| 79 | T | Carbazole | 20.000 | 20.515 | -2.6 | 106 | 0.00 |
| 80 | T | Di-n-butylphthalate | 20.000 | 20.893 | -4.5 | 104 | 0.00 |
| 81 | CM | Fluoranthene | 20.000 | 21.774 | -8.9 | 111 | 0.00 |
| 82 | I | Chrysene-d12 | 40.000 | 40.000 | 0.0 | 111 | 0.00 |
| 83 | | 3,3-Dimethylbenzidine | 20.000 | 20.494 | -2.5 | 112 | 0.00 |
| 84 | T | Benzidine | 20.000 | 20.895 | -4.5 | 114 | 0.00 |
| 85 | M | Pyrene | 20.000 | 20.871 | -4.4 | 109 | 0.00 |
| 86 | S | 4-Terphenyl-d14 | 20.000 | 20.656 | -3.3 | 112 | 0.00 |
| 87 | T | Butylbenzylphthalate | 20.000 | 20.322 | -1.6 | 106 | 0.00 |
| 88 | M | Benzo[a]anthracene | 20.000 | 21.190 | -6.0 | 117 | 0.00 |
| 89 | T | 3,3'-Dichlorobenzidine | 20.000 | 21.026 | -5.1 | 115 | 0.00 |
| 90 | M | Chrysene | 20.000 | 19.159 | 4.2 | 108 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
Operator : EB
Sample : ICV 20ug/ml BNA
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 91 | T | Bis(2-ethylhexyl)phthalate | 20.000 | 20.672 | -3.4 | 107 | 0.00 |
| 92 | I | Perylene-d12 | 40.000 | 40.000 | 0.0 | 115 | 0.00 |
| 93 | C | Di-n-octylphthalate | 20.000 | 21.528 | -7.6 | 116 | 0.00 |
| 94 | M | Benzo(b)fluoranthene | 20.000 | 20.243 | -1.2 | 111 | 0.00 |
| 95 | M | Benzo(k)fluoranthene | 20.000 | 20.413 | -2.1 | 115 | 0.00 |
| 96 | CM | Benzo(a)pyrene | 20.000 | 20.410 | -2.1 | 114 | 0.00 |
| 97 | M | Indeno(1,2,3-cd)pyrene | 20.000 | 20.751 | -3.8 | 118 | 0.00 |
| 98 | M | Dibenz(a,h)anthracene | 20.000 | 20.272 | -1.4 | 116 | 0.00 |
| 99 | M | Benzo(g,h,i)perylene | 20.000 | 19.952 | 0.2 | 114 | 0.00 |

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

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
Operator : EB
Sample : ICV 20ug/ml BNA
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 2 | M | Pyridine | 0.860 | 0.912 | -6.0 | 86 | 0.00 |
| 3 | T | 1,4-Dioxane | 0.479 | 0.378 | 21.1# | 76 | 0.00 |
| 4 | T | N-Nitrosodimethylamine | 0.571 | 0.596 | -4.4 | 92 | 0.00 |
| 5 | S | 2-Fluorophenol | 0.679 | 0.711 | -4.7 | 85 | 0.00 |
| 6 | T | Benzaldehyde | 0.490 | 0.447 | 8.8 | 86 | 0.00 |
| 7 | S | Phenol-d6 | 0.780 | 0.891 | -14.2 | 85 | 0.00 |
| 8 | MC | Phenol | 0.943 | 0.948 | -0.5 | 83 | 0.00 |
| 9 | T | Aniline | 1.037 | 1.143 | -10.2 | 85 | 0.00 |
| 10 | T | Bis(2-chloroethyl)ether | 0.899 | 0.746 | 17.0 | 79 | 0.00 |
| 11 | MT | 2-Chlorophenol | 0.744 | 0.753 | -1.2 | 83 | 0.00 |
| 12 | T | 1,3-Dichlorobenzene | 0.913 | 0.914 | -0.1 | 90 | 0.00 |
| 13 | MC | 1,4-Dichlorobenzene | 0.968 | 0.949 | 2.0 | 92 | 0.00 |
| 14 | T | Benzyl alcohol | 0.422 | 0.482 | -14.2 | 90 | 0.00 |
| 15 | T | 1,2-Dichlorobenzene | 0.907 | 0.885 | 2.4 | 91 | 0.00 |
| 16 | M | 2-Methylphenol | 0.617 | 0.637 | -3.2 | 85 | 0.00 |
| 17 | T | Dichloroisopropyl ether | 0.987 | 0.924 | 6.4 | 85 | 0.00 |
| 18 | M | 3&4-Methylphenol | 0.817 | 0.834 | -2.1 | 86 | 0.00 |
| 19 | T | Acetophenone | 1.226 | 1.250 | -2.0 | 91 | 0.00 |
| 20 | MP | N-Nitrosodi-n-propylamine | 0.654 | 0.704 | -7.6 | 89 | 0.00 |
| 21 | M | Hexachloroethane | 0.423 | 0.414 | 2.1 | 87 | 0.00 |
| 22 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.418 | 0.445 | -6.5 | 89 | 0.00 |
| 24 | M | Nitrobenzene | 0.159 | 0.168 | -5.7 | 89 | 0.00 |
| 25 | T | Isophorone | 0.702 | 0.764 | -8.8 | 91 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.163 | 0.189 | -16.0 | 91 | 0.00 |
| 27 | T | 2,4-Dimethylphenol | 0.360 | 0.385 | -6.9 | 91 | 0.00 |
| 28 | T | Bis(2-chloroethoxy)methane | 0.403 | 0.402 | 0.2 | 85 | 0.00 |
| 29 | T | Benzoic acid | 0.152 | 0.171 | -12.5 | 110 | 0.00 |
| 30 | C | 2,4-Dichlorophenol | 0.267 | 0.316 | -18.4 | 100 | 0.00 |
| 31 | M | 1,2,4-Trichlorobenzene | 0.363 | 0.383 | -5.5 | 101 | 0.00 |
| 32 | | 4-Chlorophenol | 0.330 | 0.331 | -0.3 | 89 | 0.00 |
| 33 | M | Naphthalene | 1.078 | 1.001 | 7.1 | 89 | 0.00 |
| 34 | T | 4-Chloroaniline | 0.379 | 0.421 | -11.1 | 91 | 0.00 |
| 35 | | 2,6-Dichlorophenol | 0.295 | 0.325 | -10.2 | 98 | 0.00 |
| 36 | CM | Hexachlorobutadiene | 0.220 | 0.235 | -6.8 | 100 | 0.00 |
| 37 | T | Caprolactam | 0.114 | 0.155 | -36.0# | 101 | 0.00 |
| 38 | MC | 4-Chloro-3-methylphenol | 0.292 | 0.336 | -15.1 | 93 | 0.00 |
| 39 | | 2-Methylnaphthalene | 0.674 | 0.729 | -8.2 | 94 | 0.00 |
| 40 | T | 1-Methylnaphthalene | 0.677 | 0.689 | -1.8 | 94 | 0.00 |
| 41 | T | 1,1-Biphenyl | 0.874 | 0.971 | -11.1 | 102 | 0.00 |
| 42 | | 2,3,5,6-Tetrachlorophenol | 0.166 | 0.214 | -28.9# | 103 | 0.00 |
| 43 | | 2,3,4,6-Tetrachlorophenol | 0.196 | 0.233 | -18.9 | 105 | 0.00 |
| 44 | | 1,3-Dinitrobenzene | 0.097 | 0.132 | -36.1# | 102 | 0.00 |
| 45 | | 1,4-Dinitrobenzene | 0.119 | 0.151 | -26.9# | 100 | 0.00 |
| 46 | | 1,2-Dinitrobenzene | 0.088 | 0.107 | -21.6# | 105 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\75\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
Operator : EB
Sample : ICV 20ug/ml BNA
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 48 | P | Hexachlorocyclopentadiene | 0.290 | 0.365 | -25.9# | 116 | 0.00 |
| 49 | | 1,2,4,5-Tetrachlorobenzene | 0.597 | 0.606 | -1.5 | 105 | 0.00 |
| 50 | CM | 2,4,6-Trichlorophenol | 0.344 | 0.388 | -12.8 | 104 | 0.00 |
| 51 | M | 2,4,5-Trichlorophenol | 0.367 | 0.418 | -13.9 | 111 | 0.00 |
| 52 | S | 2-Fluorobiphenyl | 1.388 | 1.390 | -0.1 | 102 | 0.00 |
| 53 | T | 2-Chloronaphthalene | 1.138 | 1.111 | 2.4 | 98 | 0.00 |
| 54 | T | 2-Nitroaniline | 0.319 | 0.397 | -24.5# | 95 | 0.00 |
| 55 | T | Dimethylphthalate | 1.354 | 1.435 | -6.0 | 102 | 0.00 |
| 56 | M | Acenaphthylene | 1.653 | 1.711 | -3.5 | 97 | 0.00 |
| 57 | T | 2,6-Dinitrotoluene | 0.283 | 0.317 | -12.0 | 102 | 0.00 |
| 58 | T | 3-Nitroaniline | 0.301 | 0.298 | 1.0 | 92 | 0.00 |
| 59 | MC | Acenaphthene | 1.086 | 1.062 | 2.2 | 90 | 0.00 |
| 60 | P | 2,4-Dinitrophenol | 0.170 | 0.195 | -14.7 | 117 | 0.00 |
| 61 | T | Dibenzofuran | 1.656 | 1.693 | -2.2 | 102 | 0.00 |
| 62 | MP | 4-Nitrophenol | 0.217 | 0.221 | -1.8 | 102 | 0.00 |
| 63 | M | 2,4-Dinitrotoluene | 0.363 | 0.449 | -23.7# | 108 | 0.00 |
| 64 | T | Diethylphthalate | 1.393 | 1.494 | -7.3 | 102 | 0.00 |
| 65 | M | Fluorene | 1.303 | 1.385 | -6.3 | 104 | 0.00 |
| 66 | T | 4-Chlorophenyl phenyl ether | 0.694 | 0.734 | -5.8 | 109 | 0.00 |
| 67 | T | 4-Nitroaniline | 0.308 | 0.317 | -2.9 | 90 | 0.00 |
| 68 | T | Atrazine | 0.379 | 0.492 | -29.8# | 113 | 0.00 |
| 69 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 70 | T | 4,6-Dinitro-2-methylphenol | 0.113 | 0.145 | -28.3# | 124 | 0.00 |
| 71 | C | N-Nitrosodiphenylamine | 0.584 | 0.609 | -4.3 | 105 | 0.00 |
| 72 | T | 1,2-Diphenylhydrazine | 0.861 | 0.833 | 3.3 | 93 | 0.00 |
| 73 | S | 2,4,6-Tribromophenol | 0.100 | 0.129 | -29.0# | 130 | 0.00 |
| 74 | T | 4-Bromophenyl phenyl ether | 0.199 | 0.217 | -9.0 | 117 | 0.00 |
| 75 | M | Hexachlorobenzene | 0.227 | 0.255 | -12.3 | 129 | 0.00 |
| 76 | MC | Pentachlorophenol | 0.107 | 0.136 | -27.1# | 122 | 0.00 |
| 77 | M | Phenanthrene | 1.112 | 1.074 | 3.4 | 106 | 0.00 |
| 78 | M | Anthracene | 1.010 | 1.094 | -8.3 | 107 | 0.00 |
| 79 | T | Carbazole | 0.885 | 0.980 | -10.7 | 106 | 0.00 |
| 80 | T | Di-n-butylphthalate | 1.042 | 1.228 | -17.9 | 104 | 0.00 |
| 81 | CM | Fluoranthene | 1.083 | 1.249 | -15.3 | 111 | 0.00 |
| 82 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 111 | 0.00 |
| 83 | | 3,3-Dimethylbenzidine | 0.551 | 0.591 | -7.3 | 112 | 0.00 |
| 84 | T | Benzidine | 0.483 | 0.563 | -16.6 | 114 | 0.00 |
| 85 | M | Pyrene | 1.126 | 1.175 | -4.4 | 109 | 0.00 |
| 86 | S | 4-Terphenyl-d14 | 0.858 | 0.920 | -7.2 | 112 | 0.00 |
| 87 | T | Butylbenzylphthalate | 0.455 | 0.538 | -18.2 | 106 | 0.00 |
| 88 | M | Benzo[a]anthracene | 1.171 | 1.168 | 0.3 | 117 | 0.00 |
| 89 | T | 3,3'-Dichlorobenzidine | 0.357 | 0.402 | -12.6 | 115 | 0.00 |
| 90 | M | Chrysene | 1.168 | 1.119 | 4.2 | 108 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181817.D
Acq On : 18 Sep 2018 7:06 pm
Operator : EB
Sample : ICV 20ug/ml BNA
Misc : 300-0390J
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 19 08:05:31 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 T | Bis(2-ethylhexyl)phthalate | 0.623 | 0.737 | -18.3 | 107 | 0.00 |
| 92 I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 115 | 0.00 |
| 93 C | Di-n-octylphthalate | 0.830 | 0.969 | -16.7 | 116 | 0.00 |
| 94 M | Benzo(b)fluoranthene | 0.938 | 1.074 | -14.5 | 111 | 0.00 |
| 95 M | Benzo(k)fluoranthene | 1.023 | 1.154 | -12.8 | 115 | 0.00 |
| 96 CM | Benzo(a)pyrene | 0.903 | 1.038 | -15.0 | 114 | 0.00 |
| 97 M | Indeno(1,2,3-cd)pyrene | 0.966 | 1.040 | -7.7 | 118 | 0.00 |
| 98 M | Dibenz(a,h)anthracene | 1.001 | 1.125 | -12.4 | 116 | 0.00 |
| 99 M | Benzo(g,h,i)perylene | 1.056 | 1.150 | -8.9 | 114 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1

2018 Sep 18 1335 Sequence Log
Starting sequence Tue Sep 18 13:35:38 2018

Instrument Name: SVMS7
Sequence File: C:\msdchem\1\sequence\7S091818.s
Comment:
Operator: EB
Data Path: C:\msdchem\1\DATA\7S091818\
Method Path: C:\MSDCHEM\1\METHODS\

| Line Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|
| Limits fail: Tune Time (Hours) | | | | |
| 1) Sample | 1 | 09181801 | 8270C | CONDITIONING SHOT |
| Limits fail: Tune Time (Hours) | | | | |
| 2) Sample | 1 | 09181802 | 8270C | CONDITIONING SHOT |
| Limits fail: Tune Time (Hours) | | | | |
| 3) Sample | 1 | 09181803 | 8270C | CONDITIONING SHOT |
| Limits fail: Tune Time (Hours) | | | | |
| 4) Sample | 1 | 09181804 | 8270C | CONDITIONING SHOT |
| Limits fail: Tune Time (Hours) | | | | |
| 5) Sample | 2 | 09181805 | 8270C | RINSE |
| Limits fail: Tune Time (Hours) | | | | |
| 6) Sample | 7 | 09181806 | 8270C | RINSE |
| Limits fail: Tune Time (Hours) | | | | |
| 7) Sample | 3 | 09181807 | 8270C | 50 UG/ML DFTPP |
| Limits fail: Tune Time (Hours) | | | | |
| 8) Sample | 4 | 09181808 | 8270C | 0.1ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 9) Sample | 5 | 09181809 | 8270C | 0.5ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 10) Sample | 6 | 09181810 | 8270C | 1.0ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 11) Sample | 7 | 09181811 | 8270C | 5.0ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 12) Sample | 8 | 09181812 | 8270C | 10ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 13) Sample | 9 | 09181813 | 8270C | 20ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 14) Sample | 10 | 09181814 | 8270C | 40ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 15) Sample | 11 | 09181815 | 8270C | 50ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 16) Sample | 12 | 09181816 | 8270C | 60ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 17) Sample | 13 | 09181817 | 8270C | ICV 20ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 18) Sample | 3 | 09181818 | 8270C | 50 UG/ML DFTPP |
| Limits fail: Tune Time (Hours) | | | | |
| 19) Sample | 9 | 09181819 | 8270C | 20ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 20) Sample | 21 | 09181820 | 8270C | SBLKW1-124418 |
| Limits fail: Tune Time (Hours) | | | | |
| 21) Sample | 22 | 09181821 | 8270C | SLCSW1-124418 |
| Limits fail: Tune Time (Hours) | | | | |
| 22) Sample | 23 | 09181822 | 8270C | SBLKW1-124572 |
| Limits fail: Tune Time (Hours) | | | | |
| 23) Sample | 24 | 09181823 | 8270C | SLCSW1-124572 |
| Limits fail: Tune Time (Hours) | | | | |
| 24) Sample | 25 | 09181824 | 8270C | 1809504-02A MS DF10 |
| Limits fail: Tune Time (Hours) | | | | |
| 25) Sample | 26 | 09181825 | 8270C | 1809504-02A MSD DF10 |
| Limits fail: Tune Time (Hours) | | | | |
| 26) Sample | 27 | 09181826 | 8270C | 1809504-02A DF10 |

2018 Sep 18 1335 Sequence Log

```
Limits fail: Tune Time (Hours)
 27) Sample        28  09181827  8270C     1809614-01A MS
Limits fail: Tune Time (Hours)
 28) Sample        29  09181828  8270C     1809614-01A
Limits fail: Tune Time (Hours)
 29) Sample        30  09181829  8270C     1809614-02A DUP
Limits fail: Tune Time (Hours)
 30) Sample        31  09181830  8270C     1809614-02A
Limits fail: Tune Time (Hours)
 31) Sample        32  09181831  8270C     1809809-01D
Limits fail: Tune Time (Hours)
 32) Sample        33  09181832  8270C     1809809-02D
Limits fail: Tune Time (Hours)
 33) Sample        34  09181833  8270C     1809624-05B DF5
Limits fail: Tune Time (Hours)
 34) Sample        35  09181834  8270C     1809630-01G
Limits fail: Tune Time (Hours)
 35) Sample        36  09181835  8270C     1809630-02G DF20
Limits fail: Tune Time (Hours)
 36) Sample        37  09181836  8270C     1809630-03G DF20
Limits fail: Tune Time (Hours)
 37) Sample        38  09181837  8270C     1809807-03C
Limits fail: Tune Time (Hours)
 38) Sample        39  09181838  8270C     1809705-01B
Limits fail: Tune Time (Hours)
 39) Sample        40  09181839  8270C     1809624-01B
Limits fail: Tune Time (Hours)
 40) Sample        41  09181840  8270C     1809511-01B
Limits fail: Tune Time (Hours)
 41) Sample        42  09181841  8270C     1809511-04B
Limits fail: Tune Time (Hours)
 42) Sample        43  09181842  8270C     1809511-05B
Limits fail: Tune Time (Hours)
 43) Sample        44  09181843  8270C     1809511-06B
Limits fail: Tune Time (Hours)
 44) Sample        45  09181844  8270C     1809511-07B
Limits fail: Tune Time (Hours)
 45) Sample        46  09181845  8270C     1809607-03C
Limits fail: Tune Time (Hours)
 46) Sample        47  09181846  8270C     1809940-01B DF100
Limits fail: Tune Time (Hours)
 47) Sample        48  09181847  8270C     1809940-02B DF50
Limits fail: Tune Time (Hours)
 48) Sample        49  09181848  8270C     1809940-03B DF50
Limits fail: Tune Time (Hours)
 49) Sample        50  09181849  8270C     1809878-01A DF200
Limits fail: Tune Time (Hours)
 50) Sample         2  09181850  8270C     RINSE
Limits fail: Tune Time (Hours)
 51) Sample         2  09181851  8270C     RINSE
Limits fail: Tune Time (Hours)
 52) Sample         2  09181852  8270C     RINSE
Limits fail: Tune Time (Hours)
 53) Sample         2  09181853  8270C     RINSE
```

Sequence completed Wed Sep 19 07:48:52 2018

C:\msdchem\1\DATA\7S091818\2018 Sep 18 1335 Quality Log.LOG
C:\msdchem\1\DATA\7S091818\2018 Sep 18 1335 Sequence Log .LOG

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 40.000 | 40.000 | 0.0 | 112 | 0.00 |
| 2 | M | Pyridine | 20.000 | 17.816 | 10.9 | 104 | 0.00 |
| 3 | T | 1,4-Dioxane | 20.000 | 16.467 | 17.7 | 93 | 0.00 |
| 4 | T | N-Nitrosodimethylamine | 20.000 | 20.640 | -3.2 | 111 | 0.00 |
| 5 | S | 2-Fluorophenol | 20.000 | 19.018 | 4.9 | 105 | 0.00 |
| 6 | T | Benzaldehyde | 20.000 | 19.447 | 2.8 | 113 | 0.00 |
| 7 | S | Phenol-d6 | 20.000 | 19.868 | 0.7 | 110 | 0.00 |
| 8 | MC | Phenol | 20.000 | 19.626 | 1.9 | 109 | 0.00 |
| 9 | T | Aniline | 20.000 | 19.837 | 0.8 | 110 | 0.00 |
| 10 | T | Bis(2-chloroethyl)ether | 20.000 | 18.082 | 9.6 | 104 | 0.00 |
| 11 | MT | 2-Chlorophenol | 20.000 | 19.221 | 3.9 | 107 | 0.00 |
| 12 | T | 1,3-Dichlorobenzene | 20.000 | 19.660 | 1.7 | 110 | 0.00 |
| 13 | MC | 1,4-Dichlorobenzene | 20.000 | 19.525 | 2.4 | 111 | 0.00 |
| 14 | T | Benzyl alcohol | 20.000 | 21.043 | -5.2 | 117 | 0.00 |
| 15 | T | 1,2-Dichlorobenzene | 20.000 | 19.932 | 0.3 | 113 | 0.00 |
| 16 | M | 2-Methylphenol | 20.000 | 21.954 | -9.8 | 111 | 0.00 |
| 17 | T | Dichloroisopropyl ether | 20.000 | 18.935 | 5.3 | 108 | 0.00 |
| 18 | M | 3&4-Methylphenol | 20.000 | 21.261 | -6.3 | 110 | 0.00 |
| 19 | T | Acetophenone | 20.000 | 21.128 | -5.6 | 115 | 0.00 |
| 20 | MP | N-Nitrosodi-n-propylamine | 20.000 | 21.028 | -5.1 | 117 | 0.00 |
| 21 | M | Hexachloroethane | 20.000 | 18.399 | 8.0 | 104 | 0.00 |
| 22 | I | Naphthalene-d8 | 40.000 | 40.000 | 0.0 | 119 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 20.000 | 19.820 | 0.9 | 117 | 0.00 |
| 24 | M | Nitrobenzene | 20.000 | 19.300 | 3.5 | 115 | 0.00 |
| 25 | T | Isophorone | 20.000 | 20.714 | -3.6 | 122 | 0.00 |
| 26 | C | 2-Nitrophenol | 20.000 | 20.022 | -0.1 | 119 | 0.00 |
| 27 | T | 2,4-Dimethylphenol | 20.000 | 19.749 | 1.3 | 120 | 0.00 |
| 28 | T | Bis(2-chloroethoxy)methane | 20.000 | 20.043 | -0.2 | 112 | 0.00 |
| 29 | T | Benzoic acid | 20.000 | 22.354 | -11.8 | 140 | 0.00 |
| 30 | C | 2,4-Dichlorophenol | 20.000 | 21.571 | -7.9 | 130 | 0.00 |
| 31 | M | 1,2,4-Trichlorobenzene | 20.000 | 20.507 | -2.5 | 129 | 0.00 |
| 32 | | 4-Chlorophenol | 20.000 | 20.800 | -4.0 | 122 | 0.00 |
| 33 | M | Naphthalene | 20.000 | 18.981 | 5.1 | 114 | 0.00 |
| 34 | T | 4-Chloroaniline | 20.000 | 20.515 | -2.6 | 120 | 0.00 |
| 35 | | 2,6-Dichlorophenol | 20.000 | 21.699 | -8.5 | 130 | 0.00 |
| 36 | CM | Hexachlorobutadiene | 20.000 | 20.861 | -4.3 | 129 | 0.00 |
| 37 | T | Caprolactam | 20.000 | 23.457 | -17.3 | 131 | 0.00 |
| 38 | MC | 4-Chloro-3-methylphenol | 20.000 | 21.261 | -6.3 | 125 | 0.00 |
| 39 | | 2-Methylnaphthalene | 20.000 | 20.860 | -4.3 | 123 | 0.00 |
| 40 | T | 1-Methylnaphthalene | 20.000 | 20.743 | -3.7 | 124 | 0.00 |
| 41 | T | 1,1-Biphenyl | 20.000 | 21.787 | -8.9 | 132 | 0.00 |
| 42 | | 2,3,5,6-Tetrachlorophenol | 20.000 | 21.677 | -8.4 | 124 | 0.03 |
| 43 | | 2,3,4,6-Tetrachlorophenol | 20.000 | 21.895 | -9.5 | 125 | -0.03 |
| 44 | | 1,3-Dinitrobenzene | 20.000 | 22.840 | -14.2 | 128 | 0.00 |
| 45 | | 1,4-Dinitrobenzene | 20.000 | 23.240 | -16.2 | 134 | 0.00 |
| 46 | | 1,2-Dinitrobenzene | 20.000 | 23.554 | -17.8 | 135 | 0.00 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | I | Acenaphthene-d10 | 40.000 | 40.000 | 0.0 | 140 | 0.00 |
| 48 | P | Hexachlorocyclopentadiene | 20.000 | 19.922 | 0.4 | 143 | 0.00 |
| 49 | | 1,2,4,5-Tetrachlorobenzene | 20.000 | 19.584 | 2.1 | 141 | 0.00 |
| 50 | CM | 2,4,6-Trichlorophenol | 20.000 | 20.710 | -3.6 | 142 | 0.00 |
| 51 | M | 2,4,5-Trichlorophenol | 20.000 | 20.957 | -4.8 | 150 | 0.00 |
| 52 | S | 2-Fluorobiphenyl | 20.000 | 19.250 | 3.8 | 135 | 0.00 |
| 53 | T | 2-Chloronaphthalene | 20.000 | 18.736 | 6.3 | 131 | 0.00 |
| 54 | T | 2-Nitroaniline | 20.000 | 20.017 | -0.1 | 133 | 0.00 |
| 55 | T | Dimethylphthalate | 20.000 | 21.186 | -5.9 | 141 | 0.00 |
| 56 | M | Acenaphthylene | 20.000 | 19.274 | 3.6 | 133 | 0.00 |
| 57 | T | 2,6-Dinitrotoluene | 20.000 | 20.692 | -3.5 | 141 | 0.00 |
| 58 | T | 3-Nitroaniline | 20.000 | 18.888 | 5.6 | 128 | 0.00 |
| 59 | MC | Acenaphthene | 20.000 | 21.466 | -7.3 | 137 | 0.00 |
| 60 | P | 2,4-Dinitrophenol | 20.000 | 22.455 | -12.3 | 156 | 0.00 |
| 61 | T | Dibenzofuran | 20.000 | 20.049 | -0.2 | 139 | 0.00 |
| 62 | MP | 4-Nitrophenol | 20.000 | 20.409 | -2.0 | 146 | 0.00 |
| 63 | M | 2,4-Dinitrotoluene | 20.000 | 21.784 | -8.9 | 147 | 0.00 |
| 64 | T | Diethylphthalate | 20.000 | 21.638 | -8.2 | 142 | 0.00 |
| 65 | M | Fluorene | 20.000 | 20.951 | -4.8 | 142 | 0.00 |
| 66 | T | 4-Chlorophenyl phenyl ether | 20.000 | 21.785 | -8.9 | 153 | 0.00 |
| 67 | T | 4-Nitroaniline | 20.000 | 19.324 | 3.4 | 128 | 0.00 |
| 68 | T | Atrazine | 20.000 | 22.680 | -13.4 | 148 | 0.00 |
| 69 | I | Phenanthrene-d10 | 40.000 | 40.000 | 0.0 | 152 | 0.00 |
| 70 | T | 4,6-Dinitro-2-methylphenol | 20.000 | 21.897 | -9.5 | 161 | 0.00 |
| 71 | C | N-Nitrosodiphenylamine | 20.000 | 19.305 | 3.5 | 147 | 0.00 |
| 72 | T | 1,2-Diphenylhydrazine | 20.000 | 16.390 | 18.0 | 127 | 0.00 |
| 73 | S | 2,4,6-Tribromophenol | 20.000 | 23.176 | -15.9 | 180 | 0.00 |
| 74 | T | 4-Bromophenyl phenyl ether | 20.000 | 21.031 | -5.2 | 160 | 0.00 |
| 75 | M | Hexachlorobenzene | 20.000 | 22.791 | -14.0 | 181 | 0.00 |
| 76 | MC | Pentachlorophenol | 20.000 | 23.264 | -16.3 | 176 | 0.00 |
| 77 | M | Phenanthrene | 20.000 | 18.551 | 7.2 | 147 | 0.00 |
| 78 | M | Anthracene | 20.000 | 20.290 | -1.4 | 150 | 0.00 |
| 79 | T | Carbazole | 20.000 | 19.601 | 2.0 | 145 | 0.00 |
| 80 | T | Di-n-butylphthalate | 20.000 | 20.659 | -3.3 | 148 | -0.01 |
| 81 | CM | Fluoranthene | 20.000 | 20.904 | -4.5 | 153 | 0.00 |
| 82 | I | Chrysene-d12 | 40.000 | 40.000 | 0.0 | 134 | 0.00 |
| 83 | | 3,3-Dimethylbenzidine | 20.000 | 20.332 | -1.7 | 135 | -0.01 |
| 84 | T | Benzidine | 20.000 | 20.412 | -2.1 | 134 | 0.00 |
| 85 | M | Pyrene | 20.000 | 23.368 | -16.8 | 147 | 0.00 |
| 86 | S | 4-Terphenyl-d14 | 20.000 | 23.342 | -16.7 | 154 | -0.01 |
| 87 | T | Butylbenzylphthalate | 20.000 | 21.524 | -7.6 | 136 | -0.01 |
| 88 | M | Benzo[a]anthracene | 20.000 | 20.341 | -1.7 | 135 | 0.00 |
| 89 | T | 3,3'-Dichlorobenzidine | 20.000 | 19.718 | 1.4 | 129 | 0.00 |
| 90 | M | Chrysene | 20.000 | 19.146 | 4.3 | 131 | -0.01 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 91 | T | Bis(2-ethylhexyl)phthalate | 20.000 | 20.860 | -4.3 | 130 | 0.00 |
| 92 | I | Perylene-d12 | 40.000 | 40.000 | 0.0 | 112 | -0.01 |
| 93 | C | Di-n-octylphthalate | 20.000 | 23.727 | -18.6 | 126 | 0.00 |
| 94 | M | Benzo(b)fluoranthene | 20.000 | 21.232 | -6.2 | 114 | -0.01 |
| 95 | M | Benzo(k)fluoranthene | 20.000 | 21.195 | -6.0 | 117 | -0.01 |
| 96 | CM | Benzo(a)pyrene | 20.000 | 20.411 | -2.1 | 111 | -0.01 |
| 97 | M | Indeno(1,2,3-cd)pyrene | 20.000 | 23.410 | -17.1 | 131 | -0.01 |
| 98 | M | Dibenz(a,h)anthracene | 20.000 | 18.359 | 8.2 | 101 | 0.00 |
| 99 | M | Benzo(g,h,i)perylene | 20.000 | 17.745 | 11.3 | 98 | 0.00 |

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

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 2 | M | Pyridine | 0.860 | 0.898 | -4.4 | 104 | 0.00 |
| 3 | T | 1,4-Dioxane | 0.479 | 0.376 | 21.5# | 93 | 0.00 |
| 4 | T | N-Nitrosodimethylamine | 0.571 | 0.589 | -3.2 | 111 | 0.00 |
| 5 | S | 2-Fluorophenol | 0.679 | 0.712 | -4.9 | 105 | 0.00 |
| 6 | T | Benzaldehyde | 0.490 | 0.477 | 2.7 | 113 | 0.00 |
| 7 | S | Phenol-d6 | 0.780 | 0.943 | -20.9# | 110 | 0.00 |
| 8 | MC | Phenol | 0.943 | 1.010 | -7.1 | 109 | 0.00 |
| 9 | T | Aniline | 1.037 | 1.209 | -16.6 | 110 | 0.00 |
| 10 | T | Bis(2-chloroethyl)ether | 0.899 | 0.802 | 10.8 | 104 | 0.00 |
| 11 | MT | 2-Chlorophenol | 0.744 | 0.790 | -6.2 | 107 | 0.00 |
| 12 | T | 1,3-Dichlorobenzene | 0.913 | 0.918 | -0.5 | 110 | 0.00 |
| 13 | MC | 1,4-Dichlorobenzene | 0.968 | 0.937 | 3.2 | 111 | 0.00 |
| 14 | T | Benzyl alcohol | 0.422 | 0.512 | -21.3# | 117 | 0.00 |
| 15 | T | 1,2-Dichlorobenzene | 0.907 | 0.896 | 1.2 | 113 | 0.00 |
| 16 | M | 2-Methylphenol | 0.617 | 0.677 | -9.7 | 111 | 0.00 |
| 17 | T | Dichloroisopropyl ether | 0.987 | 0.963 | 2.4 | 108 | 0.00 |
| 18 | M | 3&4-Methylphenol | 0.817 | 0.868 | -6.2 | 110 | 0.00 |
| 19 | T | Acetophenone | 1.226 | 1.295 | -5.6 | 115 | 0.00 |
| 20 | MP | N-Nitrosodi-n-propylamine | 0.654 | 0.758 | -15.9 | 117 | 0.00 |
| 21 | M | Hexachloroethane | 0.423 | 0.405 | 4.3 | 104 | 0.00 |
| 22 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 119 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.418 | 0.448 | -7.2 | 117 | 0.00 |
| 24 | M | Nitrobenzene | 0.159 | 0.166 | -4.4 | 115 | 0.00 |
| 25 | T | Isophorone | 0.702 | 0.780 | -11.1 | 122 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.163 | 0.187 | -14.7 | 119 | 0.00 |
| 27 | T | 2,4-Dimethylphenol | 0.360 | 0.385 | -6.9 | 120 | 0.00 |
| 28 | T | Bis(2-chloroethoxy)methane | 0.403 | 0.403 | 0.0 | 112 | 0.00 |
| 29 | T | Benzoic acid | 0.152 | 0.165 | -8.6 | 140 | 0.00 |
| 30 | C | 2,4-Dichlorophenol | 0.267 | 0.312 | -16.9 | 130 | 0.00 |
| 31 | M | 1,2,4-Trichlorobenzene | 0.363 | 0.372 | -2.5 | 129 | 0.00 |
| 32 | | 4-Chlorophenol | 0.330 | 0.343 | -3.9 | 122 | 0.00 |
| 33 | M | Naphthalene | 1.078 | 0.975 | 9.6 | 114 | 0.00 |
| 34 | T | 4-Chloroaniline | 0.379 | 0.423 | -11.6 | 120 | 0.00 |
| 35 | | 2,6-Dichlorophenol | 0.295 | 0.329 | -11.5 | 130 | 0.00 |
| 36 | CM | Hexachlorobutadiene | 0.220 | 0.230 | -4.5 | 129 | 0.00 |
| 37 | T | Caprolactam | 0.114 | 0.153 | -34.2# | 131 | 0.00 |
| 38 | MC | 4-Chloro-3-methylphenol | 0.292 | 0.345 | -18.2 | 125 | 0.00 |
| 39 | | 2-Methylnaphthalene | 0.674 | 0.727 | -7.9 | 123 | 0.00 |
| 40 | T | 1-Methylnaphthalene | 0.677 | 0.691 | -2.1 | 124 | 0.00 |
| 41 | T | 1,1-Biphenyl | 0.874 | 0.952 | -8.9 | 132 | 0.00 |
| 42 | | 2,3,5,6-Tetrachlorophenol | 0.166 | 0.197 | -18.7 | 124 | 0.03 |
| 43 | | 2,3,4,6-Tetrachlorophenol | 0.196 | 0.211 | -7.7 | 125 | -0.03 |
| 44 | | 1,3-Dinitrobenzene | 0.097 | 0.126 | -29.9# | 128 | 0.00 |
| 45 | | 1,4-Dinitrobenzene | 0.119 | 0.153 | -28.6# | 134 | 0.00 |
| 46 | | 1,2-Dinitrobenzene | 0.088 | 0.105 | -19.3 | 135 | 0.00 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 140 | 0.00 |
| 48 | P | Hexachlorocyclopentadiene | 0.290 | 0.323 | -11.4 | 143 | 0.00 |
| 49 | | 1,2,4,5-Tetrachlorobenzene | 0.597 | 0.584 | 2.2 | 141 | 0.00 |
| 50 | CM | 2,4,6-Trichlorophenol | 0.344 | 0.380 | -10.5 | 142 | 0.00 |
| 51 | M | 2,4,5-Trichlorophenol | 0.367 | 0.407 | -10.9 | 150# | 0.00 |
| 52 | S | 2-Fluorobiphenyl | 1.388 | 1.320 | 4.9 | 135 | 0.00 |
| 53 | T | 2-Chloronaphthalene | 1.138 | 1.066 | 6.3 | 131 | 0.00 |
| 54 | T | 2-Nitroaniline | 0.319 | 0.398 | -24.8# | 133 | 0.00 |
| 55 | T | Dimethylphthalate | 1.354 | 1.434 | -5.9 | 141 | 0.00 |
| 56 | M | Acenaphthylene | 1.653 | 1.691 | -2.3 | 133 | 0.00 |
| 57 | T | 2,6-Dinitrotoluene | 0.283 | 0.317 | -12.0 | 141 | 0.00 |
| 58 | T | 3-Nitroaniline | 0.301 | 0.297 | 1.3 | 128 | 0.00 |
| 59 | MC | Acenaphthene | 1.086 | 1.166 | -7.4 | 137 | 0.00 |
| 60 | P | 2,4-Dinitrophenol | 0.170 | 0.186 | -9.4 | 156# | 0.00 |
| 61 | T | Dibenzofuran | 1.656 | 1.660 | -0.2 | 139 | 0.00 |
| 62 | MP | 4-Nitrophenol | 0.217 | 0.229 | -5.5 | 146 | 0.00 |
| 63 | M | 2,4-Dinitrotoluene | 0.363 | 0.439 | -20.9# | 147 | 0.00 |
| 64 | T | Diethylphthalate | 1.393 | 1.508 | -8.3 | 142 | 0.00 |
| 65 | M | Fluorene | 1.303 | 1.365 | -4.8 | 142 | 0.00 |
| 66 | T | 4-Chlorophenyl phenyl ether | 0.694 | 0.737 | -6.2 | 153# | 0.00 |
| 67 | T | 4-Nitroaniline | 0.308 | 0.323 | -4.9 | 128 | 0.00 |
| 68 | T | Atrazine | 0.379 | 0.464 | -22.4# | 148 | 0.00 |
| 69 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 152# | 0.00 |
| 70 | T | 4,6-Dinitro-2-methylphenol | 0.113 | 0.131 | -15.9 | 161# | 0.00 |
| 71 | C | N-Nitrosodiphenylamine | 0.584 | 0.595 | -1.9 | 147 | 0.00 |
| 72 | T | 1,2-Diphenylhydrazine | 0.861 | 0.794 | 7.8 | 127 | 0.00 |
| 73 | S | 2,4,6-Tribromophenol | 0.100 | 0.124 | -24.0# | 180# | 0.00 |
| 74 | T | 4-Bromophenyl phenyl ether | 0.199 | 0.207 | -4.0 | 160# | 0.00 |
| 75 | M | Hexachlorobenzene | 0.227 | 0.250 | -10.1 | 181# | 0.00 |
| 76 | MC | Pentachlorophenol | 0.107 | 0.137 | -28.0# | 176# | 0.00 |
| 77 | M | Phenanthrene | 1.112 | 1.032 | 7.2 | 147 | 0.00 |
| 78 | M | Anthracene | 1.010 | 1.068 | -5.7 | 150# | 0.00 |
| 79 | T | Carbazole | 0.885 | 0.934 | -5.5 | 145 | 0.00 |
| 80 | T | Di-n-butylphthalate | 1.042 | 1.213 | -16.4 | 148 | -0.01 |
| 81 | CM | Fluoranthene | 1.083 | 1.194 | -10.2 | 153# | 0.00 |
| 82 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 134 | 0.00 |
| 83 | | 3,3-Dimethylbenzidine | 0.551 | 0.585 | -6.2 | 135 | -0.01 |
| 84 | T | Benzidine | 0.483 | 0.547 | -13.3 | 134 | 0.00 |
| 85 | M | Pyrene | 1.126 | 1.316 | -16.9 | 147 | 0.00 |
| 86 | S | 4-Terphenyl-d14 | 0.858 | 1.048 | -22.1# | 154# | -0.01 |
| 87 | T | Butylbenzylphthalate | 0.455 | 0.572 | -25.7# | 136 | -0.01 |
| 88 | M | Benzo[a]anthracene | 1.171 | 1.120 | 4.4 | 135 | 0.00 |
| 89 | T | 3,3'-Dichlorobenzidine | 0.357 | 0.374 | -4.8 | 129 | 0.00 |
| 90 | M | Chrysene | 1.168 | 1.118 | 4.3 | 131 | -0.01 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 T | Bis(2-ethylhexyl)phthalate | 0.623 | 0.744 | -19.4 | 130 | 0.00 |
| 92 I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 112 | -0.01 |
| 93 C | Di-n-octylphthalate | 0.830 | 1.089 | -31.2# | 126 | 0.00 |
| 94 M | Benzo(b)fluoranthene | 0.938 | 1.130 | -20.5# | 114 | -0.01 |
| 95 M | Benzo(k)fluoranthene | 1.023 | 1.200 | -17.3 | 117 | -0.01 |
| 96 CM | Benzo(a)pyrene | 0.903 | 1.038 | -15.0 | 111 | -0.01 |
| 97 M | Indeno(1,2,3-cd)pyrene | 0.966 | 1.189 | -23.1# | 131 | -0.01 |
| 98 M | Dibenz(a,h)anthracene | 1.001 | 1.011 | -1.0 | 101 | 0.00 |
| 99 M | Benzo(g,h,i)perylene | 1.056 | 1.016 | 3.8 | 98 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 2

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.348 | 150 | 502142 | 40.00 ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1276734 | 40.00 ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 894964 | 40.00 ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.136 | 188 | 1864077 | 40.00 ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.683 | 240 | 1737884 | 40.00 ug/ml | 0.00 |
| 92) Perylene-d12 | 11.213 | 264 | 1437504 | 40.00 ug/ml | -0.01 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 178753 | 19.02 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 38.04% | | |
| 7) Phenol-d6 | 3.125 | 99 | 236639 | 19.87 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 39.74% | | |
| 23) Nitrobenzene-d5 | 3.648 | 82 | 285835 | 19.82 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 39.64% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 590631 | 19.25 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 38.50% | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 116009m | 23.18 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 46.36% | | |
| 86) 4-Terphenyl-d14 | 7.389 | 244 | 910287 | 23.34 ug/ml | -0.01 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 46.68% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Pyridine | 2.178 | 79 | 225453 | 17.82 ug/ml | 93 |
| 3) 1,4-Dioxane | 2.037 | 88 | 94493 | 16.47 ug/ml | 96 |
| 4) N-Nitrosodimethylamine | 2.149 | 42 | 147931 | 20.64 ug/ml | 88 |
| 6) Benzaldehyde | 3.119 | 77 | 119716 | 19.45 ug/ml | 94 |
| 8) Phenol | 3.131 | 94 | 253612 | 19.63 ug/ml | 86 |
| 9) Aniline | 3.172 | 93 | 303631m | 19.84 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 201456m | 18.08 ug/ml | |
| 11) 2-Chlorophenol | 3.237 | 128 | 198283 | 19.22 ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 230419 | 19.66 ug/ml | 98 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 235148 | 19.53 ug/ml | 99 |
| 14) Benzyl alcohol | 3.407 | 108 | 128527 | 21.04 ug/ml | 88 |
| 15) 1,2-Dichlorobenzene | 3.443 | 146 | 224838 | 19.93 ug/ml | 99 |
| 16) 2-Methylphenol | 3.460 | 107 | 169910 | 21.95 ug/ml | 96 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 241887 | 18.94 ug/ml | 78 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 217993 | 21.26 ug/ml | 88 |
| 19) Acetophenone | 3.560 | 105 | 325128 | 21.13 ug/ml | 93 |
| 20) N-Nitrosodi-n-propylamine | 3.548 | 70 | 190303 | 21.03 ug/ml | 96 |
| 21) Hexachloroethane | 3.631 | 117 | 101770 | 18.40 ug/ml | 86 |
| 24) Nitrobenzene | 3.660 | 123 | 105659 | 19.30 ug/ml | 88 |
| 25) Isophorone | 3.795 | 82 | 498242 | 20.71 ug/ml | 98 |
| 26) 2-Nitrophenol | 3.843 | 139 | 119319 | 20.02 ug/ml | 87 |
| 27) 2,4-Dimethylphenol | 3.848 | 107 | 245622 | 19.75 ug/ml | 94 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 257565 | 20.04 ug/ml | 98 |
| 29) Benzoic acid | 3.901 | 122 | 105344 | 22.35 ug/ml | 90 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 199470 | 21.57 ug/ml | 96 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 237630 | 20.51 ug/ml | 99 |
| 32) 4-Chlorophenol | 4.037 | 128 | 219164 | 20.80 ug/ml | 93 |
| 33) Naphthalene | 4.084 | 128 | 622243 | 18.98 ug/ml | 97 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chloroaniline | 4.113 | 127 | 270115 | 20.52 ug/ml | 99 |
| 35) 2,6-Dichlorophenol | 4.113 | 162 | 210268 | 21.70 ug/ml | 98 |
| 36) Hexachlorobutadiene | 4.148 | 225 | 146590 | 20.86 ug/ml | 95 |
| 37) Caprolactam | 4.325 | 55 | 97672 | 23.46 ug/ml | 96 |
| 38) 4-Chloro-3-methylphenol | 4.390 | 107 | 220525 | 21.26 ug/ml | 98 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 464362 | 20.86 ug/ml | 92 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 441184 | 20.74 ug/ml | 95 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 607954 | 21.79 ug/ml | 98 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.360 | 232 | 125914m | 21.68 ug/ml | |
| 43) 2,3,4,6-Tetrachlorophenol | 5.331 | 232 | 134525m | 21.90 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 80410m | 22.84 ug/ml | |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 97648m | 23.24 ug/ml | |
| 46) 1,2-Dinitrobenzene | 5.048 | 168 | 66866m | 23.55 ug/ml | |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 144636 | 19.92 ug/ml | 97 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 261431 | 19.58 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 169942 | 20.71 ug/ml | 96 |
| 51) 2,4,5-Trichlorophenol | 4.701 | 196 | 182074 | 20.96 ug/ml | 97 |
| 53) 2-Chloronaphthalene | 4.801 | 162 | 476965 | 18.74 ug/ml | 97 |
| 54) 2-Nitroaniline | 4.866 | 65 | 178108 | 20.02 ug/ml | 94 |
| 55) Dimethylphthalate | 4.966 | 163 | 641606 | 21.19 ug/ml | 100 |
| 56) Acenaphthylene | 5.066 | 152 | 756574 | 19.27 ug/ml | 100 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 142073 | 20.69 ug/ml | 88 |
| 58) 3-Nitroaniline | 5.125 | 138 | 132892 | 18.89 ug/ml | 96 |
| 59) Acenaphthene | 5.172 | 154 | 521728 | 21.47 ug/ml | 96 |
| 60) 2,4-Dinitrophenol | 5.195 | 184 | 83312 | 22.46 ug/ml# | 91 |
| 61) Dibenzofuran | 5.284 | 168 | 742759 | 20.05 ug/ml | 96 |
| 62) 4-Nitrophenol | 5.225 | 65 | 102347 | 20.41 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 196290 | 21.78 ug/ml | 95 |
| 64) Diethylphthalate | 5.407 | 149 | 674611 | 21.64 ug/ml | 99 |
| 65) Fluorene | 5.507 | 166 | 610843 | 20.95 ug/ml | 98 |
| 66) 4-Chlorophenyl phenyl ... | 5.495 | 204 | 329817 | 21.79 ug/ml | 97 |
| 67) 4-Nitroaniline | 5.519 | 138 | 144324 | 19.32 ug/ml# | 76 |
| 68) Atrazine | 5.913 | 200 | 207842m | 22.68 ug/ml | |
| 70) 4,6-Dinitro-2-methylph... | 5.537 | 198 | 121899 | 21.90 ug/ml | 93 |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 554365 | 19.30 ug/ml | 99 |
| 72) 1,2-Diphenylhydrazine | 5.595 | 77 | 739887 | 16.39 ug/ml | 97 |
| 74) 4-Bromophenyl phenyl e... | 5.819 | 248 | 192519 | 21.03 ug/ml | 99 |
| 75) Hexachlorobenzene | 5.872 | 284 | 232811 | 22.79 ug/ml | 96 |
| 76) Pentachlorophenol | 6.001 | 266 | 127704 | 23.26 ug/ml | 95 |
| 77) Phenanthrene | 6.154 | 178 | 961659 | 18.55 ug/ml | 99 |
| 78) Anthracene | 6.189 | 178 | 995821 | 20.29 ug/ml | 100 |
| 79) Carbazole | 6.295 | 167 | 870970 | 19.60 ug/ml | 97 |
| 80) Di-n-butylphthalate | 6.513 | 149 | 1130511 | 20.66 ug/ml | 99 |
| 81) Fluoranthene | 7.054 | 202 | 1113202 | 20.90 ug/ml | 96 |
| 83) 3,3-Dimethylbenzidine | 7.913 | 212 | 508365 | 20.33 ug/ml | 99 |
| 84) Benzidine | 7.166 | 184 | 475745 | 20.41 ug/ml | 96 |
| 85) Pyrene | 7.266 | 202 | 1143287 | 23.37 ug/ml | 96 |
| 87) Butylbenzylphthalate | 7.913 | 149 | 497199 | 21.52 ug/ml | 96 |
| 88) Benzo[a]anthracene | 8.666 | 228 | 973422 | 20.34 ug/ml | 98 |
| 89) 3,3'-Dichlorobenzidine | 8.630 | 252 | 325293 | 19.72 ug/ml | 97 |
| 90) Chrysene | 8.719 | 228 | 971353 | 19.15 ug/ml | 97 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

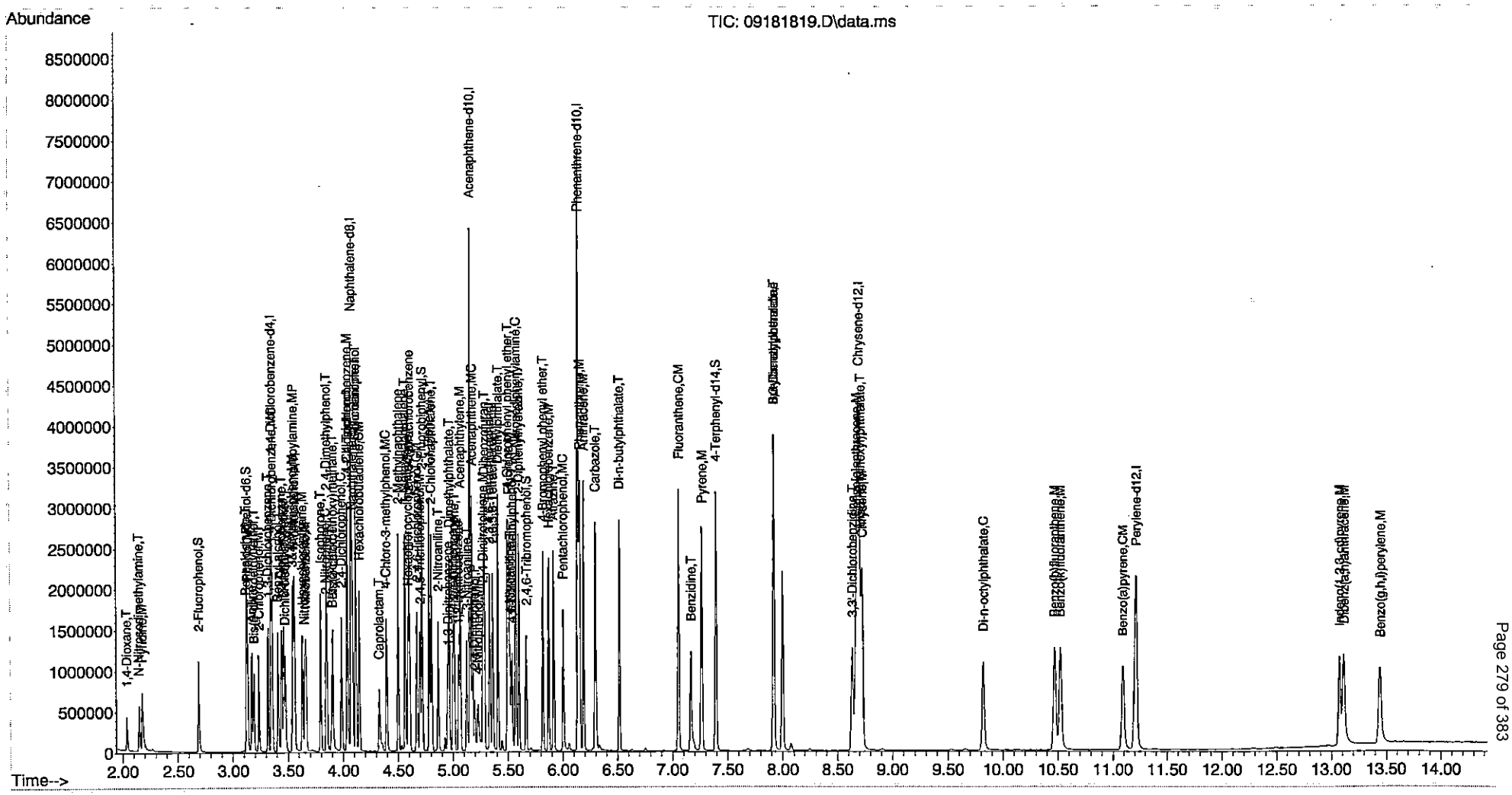
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) Bis(2-ethylhexyl)phtha... | 8.701 | 149 | 646761 | 20.86 ug/ml | 99 |
| 93) Di-n-octylphthalate | 9.819 | 149 | 782556 | 23.73 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.466 | 252 | 812481 | 21.23 ug/ml | 97 |
| 95) Benzo(k)fluoranthene | 10.519 | 252 | 862821 | 21.20 ug/ml | 98 |
| 96) Benzo(a)pyrene | 11.089 | 252 | 746370 | 20.41 ug/ml | 97 |
| 97) Indeno(1,2,3-cd)pyrene | 13.071 | 276 | 854334 | 23.41 ug/ml | 84 |
| 98) Dibenz(a,h)anthracene | 13.113 | 278 | 726746 | 18.36 ug/ml | 95 |
| 99) Benzo(g,h,i)perylene | 13.442 | 276 | 730033 | 17.74 ug/ml | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181819.D
Acq On : 18 Sep 2018 7:47 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 08:07:59 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration



Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 40.000 | 40.000 | 0.0 | 130 | 0.00 |
| 2 | M | Pyridine | 20.000 | 16.922 | 15.4 | 115 | 0.00 |
| 3 | T | 1,4-Dioxane | 20.000 | 16.131 | 19.3 | 107 | 0.00 |
| 4 | T | N-Nitrosodimethylamine | 20.000 | 20.113 | -0.6 | 126 | 0.00 |
| 5 | S | 2-Fluorophenol | 20.000 | 18.507 | 7.5 | 119 | 0.00 |
| 6 | T | Benzaldehyde | 20.000 | 18.231 | 8.8 | 123 | 0.00 |
| 7 | S | Phenol-d6 | 20.000 | 18.830 | 5.9 | 122 | 0.00 |
| 8 | MC | Phenol | 20.000 | 18.514 | 7.4 | 120 | 0.00 |
| 9 | T | Aniline | 20.000 | 18.586 | 7.1 | 120 | 0.00 |
| 10 | T | Bis(2-chloroethyl)ether | 20.000 | 16.620 | 16.9 | 112 | 0.00 |
| 11 | MT | 2-Chlorophenol | 20.000 | 18.279 | 8.6 | 119 | 0.00 |
| 12 | T | 1,3-Dichlorobenzene | 20.000 | 19.600 | 2.0 | 129 | 0.00 |
| 13 | MC | 1,4-Dichlorobenzene | 20.000 | 19.321 | 3.4 | 129 | 0.00 |
| 14 | T | Benzyl alcohol | 20.000 | 19.649 | 1.8 | 128 | 0.00 |
| 15 | T | 1,2-Dichlorobenzene | 20.000 | 19.296 | 3.5 | 128 | 0.00 |
| 16 | M | 2-Methylphenol | 20.000 | 20.782 | -3.9 | 123 | 0.00 |
| 17 | T | Dichloroisopropyl ether | 20.000 | 16.457 | 17.7 | 111 | 0.00 |
| 18 | M | 3&4-Methylphenol | 20.000 | 20.318 | -1.6 | 123 | 0.00 |
| 19 | T | Acetophenone | 20.000 | 19.478 | 2.6 | 124 | 0.00 |
| 20 | MP | N-Nitrosodi-n-propylamine | 20.000 | 19.381 | 3.1 | 126 | 0.00 |
| 21 | M | Hexachloroethane | 20.000 | 18.479 | 7.6 | 123 | 0.00 |
| 22 | I | Naphthalene-d8 | 40.000 | 40.000 | 0.0 | 133 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 20.000 | 19.352 | 3.2 | 128 | 0.00 |
| 24 | M | Nitrobenzene | 20.000 | 19.709 | 1.5 | 131 | 0.00 |
| 25 | T | Isophorone | 20.000 | 19.999 | 0.0 | 131 | 0.00 |
| 26 | C | 2-Nitrophenol | 20.000 | 20.098 | -0.5 | 133 | 0.00 |
| 27 | T | 2,4-Dimethylphenol | 20.000 | 19.386 | 3.1 | 131 | 0.00 |
| 28 | T | Bis(2-chloroethoxy)methane | 20.000 | 19.505 | 2.5 | 122 | 0.00 |
| 29 | T | Benzoic acid | 20.000 | 22.262 | -11.3 | 156 | 0.00 |
| 30 | C | 2,4-Dichlorophenol | 20.000 | 21.800 | -9.0 | 147 | 0.00 |
| 31 | M | 1,2,4-Trichlorobenzene | 20.000 | 21.120 | -5.6 | 148 | 0.00 |
| 32 | | 4-Chlorophenol | 20.000 | 20.200 | -1.0 | 132 | 0.00 |
| 33 | M | Naphthalene | 20.000 | 18.880 | 5.6 | 127 | 0.00 |
| 34 | T | 4-Chloroaniline | 20.000 | 20.279 | -1.4 | 132 | 0.00 |
| 35 | | 2,6-Dichlorophenol | 20.000 | 22.137 | -10.7 | 149 | 0.00 |
| 36 | CM | Hexachlorobutadiene | 20.000 | 21.567 | -7.8 | 149 | 0.00 |
| 37 | T | Caprolactam | 20.000 | 21.223 | -6.1 | 131 | 0.00 |
| 38 | MC | 4-Chloro-3-methylphenol | 20.000 | 20.796 | -4.0 | 137 | 0.00 |
| 39 | | 2-Methylnaphthalene | 20.000 | 21.123 | -5.6 | 139 | 0.00 |
| 40 | T | 1-Methylnaphthalene | 20.000 | 20.762 | -3.8 | 139 | 0.00 |
| 41 | T | 1,1-Biphenyl | 20.000 | 22.094 | -10.5 | 149 | 0.00 |
| 42 | | 2,3,5,6-Tetrachlorophenol | 20.000 | 25.661 | -28.3# | 170 | 0.00 |
| 43 | | 2,3,4,6-Tetrachlorophenol | 20.000 | 25.807 | -29.0# | 173 | 0.00 |
| 44 | | 1,3-Dinitrobenzene | 20.000 | 23.780 | -18.9 | 149 | 0.00 |
| 45 | | 1,4-Dinitrobenzene | 20.000 | 23.243 | -16.2 | 150 | 0.00 |
| 46 | | 1,2-Dinitrobenzene | 20.000 | 23.947 | -19.7 | 154 | 0.00 |

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | I | Acenaphthene-d10 | 40.000 | 40.000 | 0.0 | 157 | 0.00 |
| 48 | P | Hexachlorocyclopentadiene | 20.000 | 19.889 | 0.6 | 160 | 0.00 |
| 49 | | 1,2,4,5-Tetrachlorobenzene | 20.000 | 20.929 | -4.6 | 166 | 0.00 |
| 50 | CM | 2,4,6-Trichlorophenol | 20.000 | 21.517 | -7.6 | 165 | 0.00 |
| 51 | M | 2,4,5-Trichlorophenol | 20.000 | 21.086 | -5.4 | 169 | 0.00 |
| 52 | S | 2-Fluorobiphenyl | 20.000 | 19.621 | 1.9 | 154 | 0.00 |
| 53 | T | 2-Chloronaphthalene | 20.000 | 19.267 | 3.7 | 151 | 0.00 |
| 54 | T | 2-Nitroaniline | 20.000 | 18.808 | 6.0 | 139 | 0.00 |
| 55 | T | Dimethylphthalate | 20.000 | 20.705 | -3.5 | 154 | 0.00 |
| 56 | M | Acenaphthylene | 20.000 | 18.982 | 5.1 | 146 | 0.00 |
| 57 | T | 2,6-Dinitrotoluene | 20.000 | 20.465 | -2.3 | 157 | 0.00 |
| 58 | T | 3-Nitroaniline | 20.000 | 18.204 | 9.0 | 137 | 0.00 |
| 59 | MC | Acenaphthene | 20.000 | 20.329 | -1.6 | 145 | 0.00 |
| 60 | P | 2,4-Dinitrophenol | 20.000 | 12.571 | 37.1# | 82 | 0.00 |
| 61 | T | Dibenzofuran | 20.000 | 19.808 | 1.0 | 153 | 0.00 |
| 62 | MP | 4-Nitrophenol | 20.000 | 18.585 | 7.1 | 145 | 0.00 |
| 63 | M | 2,4-Dinitrotoluene | 20.000 | 21.280 | -6.4 | 160 | 0.00 |
| 64 | T | Diethylphthalate | 20.000 | 20.793 | -4.0 | 153 | 0.00 |
| 65 | M | Fluorene | 20.000 | 20.926 | -4.6 | 159 | 0.00 |
| 66 | T | 4-Chlorophenyl phenyl ether | 20.000 | 21.739 | -8.7 | 171 | 0.00 |
| 67 | T | 4-Nitroaniline | 20.000 | 18.473 | 7.6 | 136 | 0.00 |
| 68 | T | Atrazine | 20.000 | 23.455 | -17.3 | 172 | 0.00 |
| 69 | I | Phenanthrene-d10 | 40.000 | 40.000 | 0.0 | 168 | 0.00 |
| 70 | T | 4,6-Dinitro-2-methylphenol | 20.000 | 19.251 | 3.7 | 153 | 0.00 |
| 71 | C | N-Nitrosodiphenylamine | 20.000 | 19.497 | 2.5 | 164 | 0.00 |
| 72 | T | 1,2-Diphenylhydrazine | 20.000 | 15.826 | 20.9# | 136 | 0.00 |
| 73 | S | 2,4,6-Tribromophenol | 20.000 | 23.132 | -15.7 | 198 | 0.00 |
| 74 | T | 4-Bromophenyl phenyl ether | 20.000 | 21.577 | -7.9 | 182 | 0.00 |
| 75 | M | Hexachlorobenzene | 20.000 | 22.340 | -11.7 | 196 | 0.00 |
| 76 | MC | Pentachlorophenol | 20.000 | 15.735 | 21.3# | 121 | 0.00 |
| 77 | M | Phenanthrene | 20.000 | 18.724 | 6.4 | 164 | 0.00 |
| 78 | M | Anthracene | 20.000 | 20.323 | -1.6 | 166 | 0.00 |
| 79 | T | Carbazole | 20.000 | 19.403 | 3.0 | 159 | 0.00 |
| 80 | T | Di-n-butylphthalate | 20.000 | 19.242 | 3.8 | 152 | 0.00 |
| 81 | CM | Fluoranthene | 20.000 | 20.434 | -2.2 | 165 | 0.01 |
| 82 | I | Chrysene-d12 | 40.000 | 40.000 | 0.0 | 136 | 0.01 |
| 83 | | 3,3-Dimethylbenzidine | 20.000 | 20.121 | -0.6 | 135 | 0.00 |
| 84 | T | Benzidine | 20.000 | 21.391 | -7.0 | 143 | 0.01 |
| 85 | M | Pyrene | 20.000 | 24.969 | -24.8# | 160 | 0.00 |
| 86 | S | 4-Terphenyl-d14 | 20.000 | 23.841 | -19.2 | 160 | 0.00 |
| 87 | T | Butylbenzylphthalate | 20.000 | 19.955 | 0.2 | 127 | 0.00 |
| 88 | M | Benzo[a]anthracene | 20.000 | 20.347 | -1.7 | 137 | 0.01 |
| 89 | T | 3,3'-Dichlorobenzidine | 20.000 | 19.824 | 0.9 | 132 | 0.01 |
| 90 | M | Chrysene | 20.000 | 19.152 | 4.2 | 132 | 0.00 |

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 91 | T | Bis(2-ethylhexyl)phthalate | 20.000 | 19.129 | 4.4 | 120 | 0.01 |
| 92 | I | Perylene-d12 | 40.000 | 40.000 | 0.0 | 128 | 0.00 |
| 93 | C | Di-n-octylphthalate | 20.000 | 19.917 | 0.4 | 118 | 0.00 |
| 94 | M | Benzo(b)fluoranthene | 20.000 | 20.879 | -4.4 | 129 | 0.00 |
| 95 | M | Benzo(k)fluoranthene | 20.000 | 20.096 | -0.5 | 126 | 0.00 |
| 96 | CM | Benzo(a)pyrene | 20.000 | 20.432 | -2.2 | 127 | 0.00 |
| 97 | M | Indeno(1,2,3-cd)pyrene | 20.000 | 20.468 | -2.3 | 130 | 0.00 |
| 98 | M | Dibenz(a,h)anthracene | 20.000 | 21.517 | -7.6 | 138 | 0.00 |
| 99 | M | Benzo(g,h,i)perylene | 20.000 | 21.068 | -5.3 | 135 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 130 | 0.00 |
| 2 | M | Pyridine | 0.860 | 0.854 | 0.7 | 115 | 0.00 |
| 3 | T | 1,4-Dioxane | 0.479 | 0.369 | 23.0# | 107 | 0.00 |
| 4 | T | N-Nitrosodimethylamine | 0.571 | 0.574 | -0.5 | 126 | 0.00 |
| 5 | S | 2-Fluorophenol | 0.679 | 0.693 | -2.1 | 119 | 0.00 |
| 6 | T | Benzaldehyde | 0.490 | 0.447 | 8.8 | 123 | 0.00 |
| 7 | S | Phenol-d6 | 0.780 | 0.894 | -14.6 | 122 | 0.00 |
| 8 | MC | Phenol | 0.943 | 0.955 | -1.3 | 120 | 0.00 |
| 9 | T | Aniline | 1.037 | 1.136 | -9.5 | 120 | 0.00 |
| 10 | T | Bis(2-chloroethyl)ether | 0.899 | 0.742 | 17.5 | 112 | 0.00 |
| 11 | MT | 2-Chlorophenol | 0.744 | 0.753 | -1.2 | 119 | 0.00 |
| 12 | T | 1,3-Dichlorobenzene | 0.913 | 0.915 | -0.2 | 129 | 0.00 |
| 13 | MC | 1,4-Dichlorobenzene | 0.968 | 0.927 | 4.2 | 129 | 0.00 |
| 14 | T | Benzyl alcohol | 0.422 | 0.478 | -13.3 | 128 | 0.00 |
| 15 | T | 1,2-Dichlorobenzene | 0.907 | 0.868 | 4.3 | 128 | 0.00 |
| 16 | M | 2-Methylphenol | 0.617 | 0.641 | -3.9 | 123 | 0.00 |
| 17 | T | Dichloroisopropyl ether | 0.987 | 0.845 | 14.4 | 111 | 0.00 |
| 18 | M | 3&4-Methylphenol | 0.817 | 0.830 | -1.6 | 123 | 0.00 |
| 19 | T | Acetophenone | 1.226 | 1.194 | 2.6 | 124 | 0.00 |
| 20 | MP | N-Nitrosodi-n-propylamine | 0.654 | 0.701 | -7.2 | 126 | 0.00 |
| 21 | M | Hexachloroethane | 0.423 | 0.407 | 3.8 | 123 | 0.00 |
| 22 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 133 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.418 | 0.437 | -4.5 | 128 | 0.00 |
| 24 | M | Nitrobenzene | 0.159 | 0.169 | -6.3 | 131 | 0.00 |
| 25 | T | Isophorone | 0.702 | 0.753 | -7.3 | 131 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.163 | 0.188 | -15.3 | 133 | 0.00 |
| 27 | T | 2,4-Dimethylphenol | 0.360 | 0.377 | -4.7 | 131 | 0.00 |
| 28 | T | Bis(2-chloroethoxy)methane | 0.403 | 0.393 | 2.5 | 122 | 0.00 |
| 29 | T | Benzoic acid | 0.152 | 0.164 | -7.9 | 156# | 0.00 |
| 30 | C | 2,4-Dichlorophenol | 0.267 | 0.316 | -18.4 | 147 | 0.00 |
| 31 | M | 1,2,4-Trichlorobenzene | 0.363 | 0.383 | -5.5 | 148 | 0.00 |
| 32 | | 4-Chlorophenol | 0.330 | 0.333 | -0.9 | 132 | 0.00 |
| 33 | M | Naphthalene | 1.078 | 0.970 | 10.0 | 127 | 0.00 |
| 34 | T | 4-Chloroaniline | 0.379 | 0.418 | -10.3 | 132 | 0.00 |
| 35 | | 2,6-Dichlorophenol | 0.295 | 0.337 | -14.2 | 149 | 0.00 |
| 36 | CM | Hexachlorobutadiene | 0.220 | 0.237 | -7.7 | 149 | 0.00 |
| 37 | T | Caprolactam | 0.114 | 0.137 | -20.2# | 131 | 0.00 |
| 38 | MC | 4-Chloro-3-methylphenol | 0.292 | 0.338 | -15.8 | 137 | 0.00 |
| 39 | | 2-Methylnaphthalene | 0.674 | 0.737 | -9.3 | 139 | 0.00 |
| 40 | T | 1-Methylnaphthalene | 0.677 | 0.692 | -2.2 | 139 | 0.00 |
| 41 | T | 1,1-Biphenyl | 0.874 | 0.966 | -10.5 | 149 | 0.00 |
| 42 | | 2,3,5,6-Tetrachlorophenol | 0.166 | 0.241 | -45.2# | 170# | 0.00 |
| 43 | | 2,3,4,6-Tetrachlorophenol | 0.196 | 0.260 | -32.7# | 173# | 0.00 |
| 44 | | 1,3-Dinitrobenzene | 0.097 | 0.132 | -36.1# | 149 | 0.00 |
| 45 | | 1,4-Dinitrobenzene | 0.119 | 0.153 | -28.6# | 150 | 0.00 |
| 46 | | 1,2-Dinitrobenzene | 0.088 | 0.107 | -21.6# | 154# | 0.00 |

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 157# | 0.00 |
| 48 | P | Hexachlorocyclopentadiene | 0.290 | 0.323 | -11.4 | 160# | 0.00 |
| 49 | | 1,2,4,5-Tetrachlorobenzene | 0.597 | 0.614 | -2.8 | 166# | 0.00 |
| 50 | CM | 2,4,6-Trichlorophenol | 0.344 | 0.396 | -15.1 | 165# | 0.00 |
| 51 | M | 2,4,5-Trichlorophenol | 0.367 | 0.410 | -11.7 | 169# | 0.00 |
| 52 | S | 2-Fluorobiphenyl | 1.388 | 1.347 | 3.0 | 154# | 0.00 |
| 53 | T | 2-Chloronaphthalene | 1.138 | 1.096 | 3.7 | 151# | 0.00 |
| 54 | T | 2-Nitroaniline | 0.319 | 0.373 | -16.9 | 139 | 0.00 |
| 55 | T | Dimethylphthalate | 1.354 | 1.401 | -3.5 | 154# | 0.00 |
| 56 | M | Acenaphthylene | 1.653 | 1.664 | -0.7 | 146 | 0.00 |
| 57 | T | 2,6-Dinitrotoluene | 0.283 | 0.314 | -11.0 | 157# | 0.00 |
| 58 | T | 3-Nitroaniline | 0.301 | 0.286 | 5.0 | 137 | 0.00 |
| 59 | MC | Acenaphthene | 1.086 | 1.104 | -1.7 | 145 | 0.00 |
| 60 | P | 2,4-Dinitrophenol | 0.170 | 0.088 | 48.2# | 82 | 0.00 |
| 61 | T | Dibenzofuran | 1.656 | 1.640 | 1.0 | 153# | 0.00 |
| 62 | MP | 4-Nitrophenol | 0.217 | 0.204 | 6.0 | 145 | 0.00 |
| 63 | M | 2,4-Dinitrotoluene | 0.363 | 0.428 | -17.9 | 160# | 0.00 |
| 64 | T | Diethylphthalate | 1.393 | 1.449 | -4.0 | 153# | 0.00 |
| 65 | M | Fluorene | 1.303 | 1.363 | -4.6 | 159# | 0.00 |
| 66 | T | 4-Chlorophenyl phenyl ether | 0.694 | 0.735 | -5.9 | 171# | 0.00 |
| 67 | T | 4-Nitroaniline | 0.308 | 0.307 | 0.3 | 136 | 0.00 |
| 68 | T | Atrazine | 0.379 | 0.482 | -27.2# | 172# | 0.00 |
| 69 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 168# | 0.00 |
| 70 | T | 4,6-Dinitro-2-methylphenol | 0.113 | 0.112 | 0.9 | 153# | 0.00 |
| 71 | C | N-Nitrosodiphenylamine | 0.584 | 0.601 | -2.9 | 164# | 0.00 |
| 72 | T | 1,2-Diphenylhydrazine | 0.861 | 0.767 | 10.9 | 136 | 0.00 |
| 73 | S | 2,4,6-Tribromophenol | 0.100 | 0.124 | -24.0# | 198# | 0.00 |
| 74 | T | 4-Bromophenyl phenyl ether | 0.199 | 0.213 | -7.0 | 182# | 0.00 |
| 75 | M | Hexachlorobenzene | 0.227 | 0.244 | -7.5 | 196# | 0.00 |
| 76 | MC | Pentachlorophenol | 0.107 | 0.085 | 20.6# | 121 | 0.00 |
| 77 | M | Phenanthrene | 1.112 | 1.041 | 6.4 | 164# | 0.00 |
| 78 | M | Anthracene | 1.010 | 1.070 | -5.9 | 166# | 0.00 |
| 79 | T | Carbazole | 0.885 | 0.925 | -4.5 | 159# | 0.00 |
| 80 | T | Di-n-butylphthalate | 1.042 | 1.124 | -7.9 | 152# | 0.00 |
| 81 | CM | Fluoranthene | 1.083 | 1.165 | -7.6 | 165# | 0.01 |
| 82 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 136 | 0.01 |
| 83 | | 3,3-Dimethylbenzidine | 0.551 | 0.578 | -4.9 | 135 | 0.00 |
| 84 | T | Benzidine | 0.483 | 0.579 | -19.9 | 143 | 0.01 |
| 85 | M | Pyrene | 1.126 | 1.406 | -24.9# | 160# | 0.00 |
| 86 | S | 4-Terphenyl-d14 | 0.858 | 1.072 | -24.9# | 160# | 0.00 |
| 87 | T | Butylbenzylphthalate | 0.455 | 0.527 | -15.8 | 127 | 0.00 |
| 88 | M | Benzo[a]anthracene | 1.171 | 1.121 | 4.3 | 137 | 0.01 |
| 89 | T | 3,3'-Dichlorobenzidine | 0.357 | 0.377 | -5.6 | 132 | 0.01 |
| 90 | M | Chrysene | 1.168 | 1.118 | 4.3 | 132 | 0.00 |

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 T | Bis(2-ethylhexyl)phthalate | 0.623 | 0.678 | -8.8 | 120 | 0.01 |
| 92 I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 128 | 0.00 |
| 93 C | Di-n-octylphthalate | 0.830 | 0.884 | -6.5 | 118 | 0.00 |
| 94 M | Benzo(b)fluoranthene | 0.938 | 1.110 | -18.3 | 129 | 0.00 |
| 95 M | Benzo(k)fluoranthene | 1.023 | 1.135 | -10.9 | 126 | 0.00 |
| 96 CM | Benzo(a)pyrene | 0.903 | 1.040 | -15.2 | 127 | 0.00 |
| 97 M | Indeno(1,2,3-cd)pyrene | 0.966 | 1.025 | -6.1 | 130 | 0.00 |
| 98 M | Dibenz(a,h)anthracene | 1.001 | 1.200 | -19.9 | 138 | 0.00 |
| 99 M | Benzo(g,h,i)perylene | 1.056 | 1.218 | -15.3 | 135 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 586741 | 40.00 ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1426650 | 40.00 ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 1001848 | 40.00 ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.148 | 188 | 2061101 | 40.00 ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.701 | 240 | 1760425 | 40.00 ug/ml | 0.01 |
| 92) Perylene-d12 | 11.230 | 264 | 1646542 | 40.00 ug/ml | 0.00 |
| System Monitoring Compounds | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 203317 | 18.51 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 37.02% | | |
| 7) Phenol-d6 | 3.125 | 99 | 262300 | 18.83 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 37.66% | | |
| 23) Nitrobenzene-d5 | 3.649 | 82 | 311578 | 19.35 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 38.70% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 674667 | 19.62 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 39.24% | | |
| 73) 2,4,6-Tribromophenol | 5.672 | 330 | 127963 | 23.13 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 46.26% | | |
| 86) 4-Terphenyl-d14 | 7.407 | 244 | 943201 | 23.84 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 47.68% | | |
| Target Compounds | | | | | Qvalue |
| 2) Pyridine | 2.178 | 79 | 250665 | 16.92 ug/ml | 92 |
| 3) 1,4-Dioxane | 2.037 | 88 | 108355 | 16.13 ug/ml | 94 |
| 4) N-Nitrosodimethylamine | 2.149 | 42 | 168442 | 20.11 ug/ml | 86 |
| 6) Benzaldehyde | 3.119 | 77 | 131133 | 18.23 ug/ml | 96 |
| 8) Phenol | 3.131 | 94 | 280181 | 18.51 ug/ml | 86 |
| 9) Aniline | 3.166 | 93 | 333201m | 18.59 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 217628m | 16.62 ug/ml | |
| 11) 2-Chlorophenol | 3.237 | 128 | 220762 | 18.28 ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.313 | 146 | 268453 | 19.60 ug/ml | 97 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 271997 | 19.32 ug/ml | 99 |
| 14) Benzyl alcohol | 3.407 | 108 | 140227 | 19.65 ug/ml | 87 |
| 15) 1,2-Dichlorobenzene | 3.437 | 146 | 254690 | 19.30 ug/ml | 99 |
| 16) 2-Methylphenol | 3.460 | 107 | 187936 | 20.78 ug/ml | 96 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 247901 | 16.46 ug/ml | 72 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 243418 | 20.32 ug/ml | 90 |
| 19) Acetophenone | 3.560 | 105 | 350243 | 19.48 ug/ml | 93 |
| 20) N-Nitrosodi-n-propylamine | 3.549 | 70 | 205543 | 19.38 ug/ml | 99 |
| 21) Hexachloroethane | 3.625 | 117 | 119404 | 18.48 ug/ml | 85 |
| 24) Nitrobenzene | 3.660 | 123 | 120613 | 19.71 ug/ml | 94 |
| 25) Isophorone | 3.796 | 82 | 536900 | 20.00 ug/ml | 99 |
| 26) 2-Nitrophenol | 3.843 | 139 | 133863 | 20.10 ug/ml | 89 |
| 27) 2,4-Dimethylphenol | 3.849 | 107 | 269241 | 19.39 ug/ml | 95 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 280080 | 19.50 ug/ml | 99 |
| 29) Benzoic acid | 3.901 | 122 | 117080 | 22.26 ug/ml | 93 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 225446 | 21.80 ug/ml | 95 |
| 31) 1,2,4-Trichlorobenzene | 4.031 | 180 | 273472 | 21.12 ug/ml | 98 |
| 32) 4-Chlorophenol | 4.043 | 128 | 237834 | 20.20 ug/ml | 88 |
| 33) Naphthalene | 4.084 | 128 | 691671 | 18.88 ug/ml | 97 |

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chloroaniline | 4.113 | 127 | 298200 | 20.28 ug/ml | 99 |
| 35) 2,6-Dichlorophenol | 4.113 | 162 | 240120 | 22.14 ug/ml | 97 |
| 36) Hexachlorobutadiene | 4.149 | 225 | 169350 | 21.57 ug/ml | 95 |
| 37) Caprolactam | 4.325 | 55 | 97664 | 21.22 ug/ml | 92 |
| 38) 4-Chloro-3-methylphenol | 4.396 | 107 | 240811 | 20.80 ug/ml | 99 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 525647 | 21.12 ug/ml | 95 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 493450 | 20.76 ug/ml | 94 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 688939 | 22.09 ug/ml | 97 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.337 | 232 | 171744m | 25.66 ug/ml | |
| 43) 2,3,4,6-Tetrachlorophenol | 5.366 | 232 | 185706m | 25.81 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 94101m | 23.78 ug/ml | |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 109127m | 23.24 ug/ml | |
| 46) 1,2-Dinitrobenzene | 5.054 | 168 | 76056m | 23.95 ug/ml | |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 161583 | 19.89 ug/ml | 99 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 307802 | 20.93 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 198495 | 21.52 ug/ml | 95 |
| 51) 2,4,5-Trichlorophenol | 4.701 | 196 | 205191 | 21.09 ug/ml | 97 |
| 53) 2-Chloronaphthalene | 4.807 | 162 | 549048 | 19.27 ug/ml | 94 |
| 54) 2-Nitroaniline | 4.866 | 65 | 186654 | 18.81 ug/ml | 97 |
| 55) Dimethylphthalate | 4.966 | 163 | 701949 | 20.71 ug/ml | 100 |
| 56) Acenaphthylene | 5.066 | 152 | 833744 | 18.98 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 157203 | 20.47 ug/ml | 93 |
| 58) 3-Nitroaniline | 5.131 | 138 | 143095 | 18.20 ug/ml | 98 |
| 59) Acenaphthene | 5.178 | 154 | 553103 | 20.33 ug/ml | 98 |
| 60) 2,4-Dinitrophenol | 5.196 | 184 | 43851m | 12.57 ug/ml | |
| 61) Dibenzofuran | 5.284 | 168 | 821477 | 19.81 ug/ml | 96 |
| 62) 4-Nitrophenol | 5.231 | 65 | 101957 | 18.59 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 214253 | 21.28 ug/ml | 97 |
| 64) Diethylphthalate | 5.413 | 149 | 725689 | 20.79 ug/ml | 99 |
| 65) Fluorene | 5.507 | 166 | 682984 | 20.93 ug/ml | 99 |
| 66) 4-Chlorophenyl phenyl ... | 5.501 | 204 | 368362 | 21.74 ug/ml | 97 |
| 67) 4-Nitroaniline | 5.525 | 138 | 153831 | 18.47 ug/ml# | 74 |
| 68) Atrazine | 5.925 | 200 | 241503 | 23.45 ug/ml | 93 |
| 70) 4,6-Dinitro-2-methylph... | 5.543 | 198 | 115911 | 19.25 ug/ml | 86 |
| 71) N-Nitrosodiphenylamine | 5.578 | 169 | 619360 | 19.50 ug/ml | 100 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 790360m | 15.83 ug/ml | |
| 74) 4-Bromophenyl phenyl e... | 5.825 | 248 | 219010 | 21.58 ug/ml | 96 |
| 75) Hexachlorobenzene | 5.878 | 284 | 251602 | 22.34 ug/ml | 96 |
| 76) Pentachlorophenol | 6.013 | 266 | 87913m | 15.73 ug/ml | |
| 77) Phenanthrene | 6.160 | 178 | 1073208 | 18.72 ug/ml | 99 |
| 78) Anthracene | 6.201 | 178 | 1102946 | 20.32 ug/ml | 100 |
| 79) Carbazole | 6.307 | 167 | 952785 | 19.40 ug/ml | 96 |
| 80) Di-n-butylphthalate | 6.531 | 149 | 1158294 | 19.24 ug/ml | 100 |
| 81) Fluoranthene | 7.072 | 202 | 1200579 | 20.43 ug/ml | 95 |
| 83) 3,3-Dimethylbenzidine | 7.931 | 212 | 508552 | 20.12 ug/ml | 99 |
| 84) Benzidine | 7.184 | 184 | 509638 | 21.39 ug/ml | 97 |
| 85) Pyrene | 7.278 | 202 | 1237481m | 24.97 ug/ml | |
| 87) Butylbenzylphthalate | 7.931 | 149 | 464138 | 19.96 ug/ml | 95 |
| 88) Benzo[a]anthracene | 8.684 | 228 | 986331 | 20.35 ug/ml | 97 |
| 89) 3,3'-Dichlorobenzidine | 8.648 | 252 | 331499 | 19.82 ug/ml | 99 |
| 90) Chrysene | 8.736 | 228 | 984264 | 19.15 ug/ml | 96 |

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

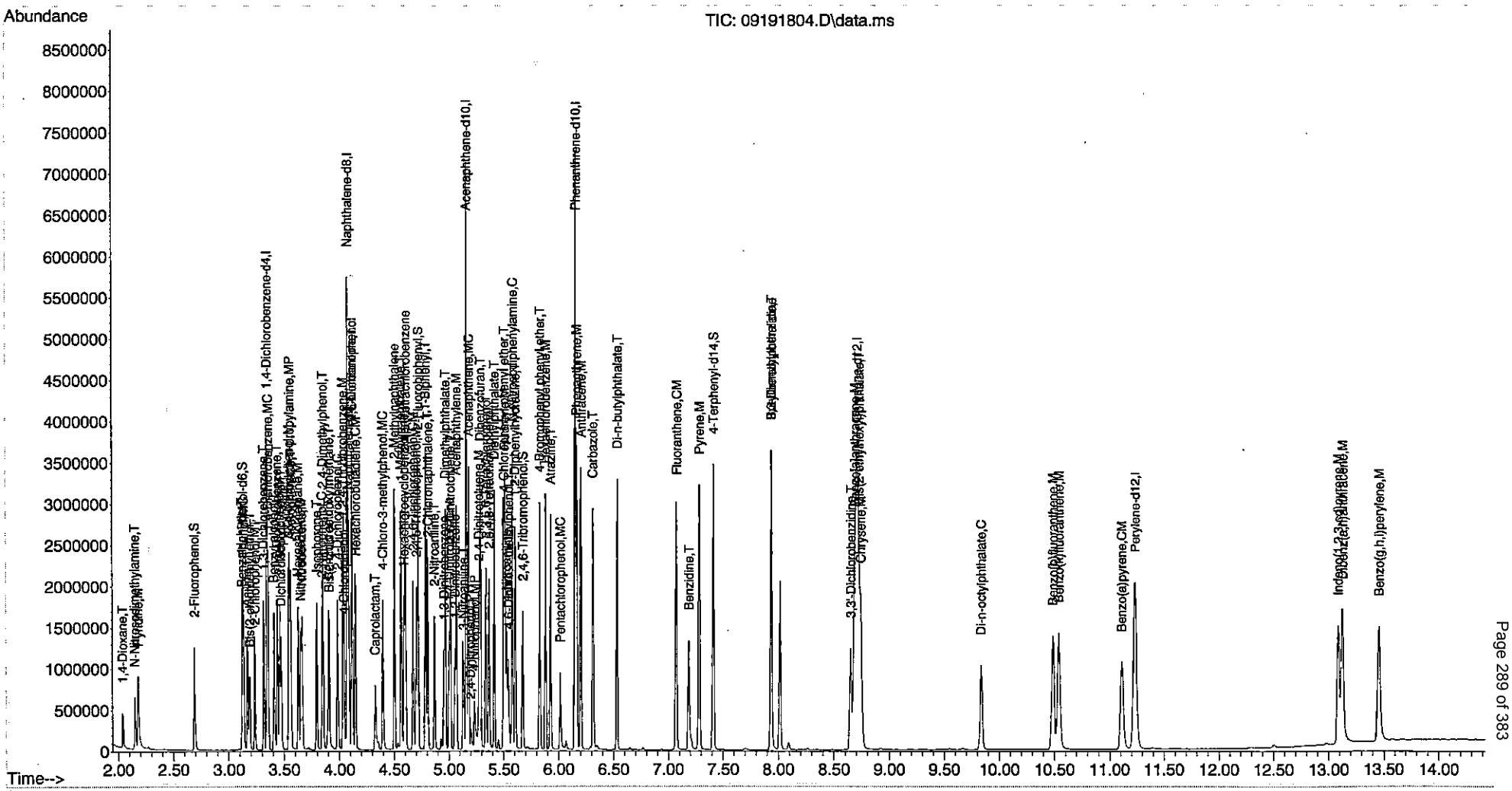
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) Bis(2-ethylhexyl)phtha... | 8.719 | 149 | 596886 | 19.13 ug/ml | 99 |
| 93) Di-n-octylphthalate | 9.831 | 149 | 727481 | 19.92 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.483 | 252 | 914062 | 20.88 ug/ml | 97 |
| 95) Benzo(k)fluoranthene | 10.536 | 252 | 934627 | 20.10 ug/ml | 97 |
| 96) Benzo(a)pyrene | 11.107 | 252 | 855864 | 20.43 ug/ml | 97 |
| 97) Indeno(1,2,3-cd)pyrene | 13.083 | 276 | 843641m | 20.47 ug/ml | |
| 98) Dibenz(a,h)anthracene | 13.124 | 278 | 987892 | 21.52 ug/ml | 95 |
| 99) Benzo(g,h,i)perylene | 13.454 | 276 | 1002660 | 21.07 ug/ml | 94 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191804.D
Acq On : 19 Sep 2018 12:10 pm
Operator : EB
Sample : 20ug/ml BNA
Misc : 300-0390F
ALS Vial : 9 Sample Multiplier: 1

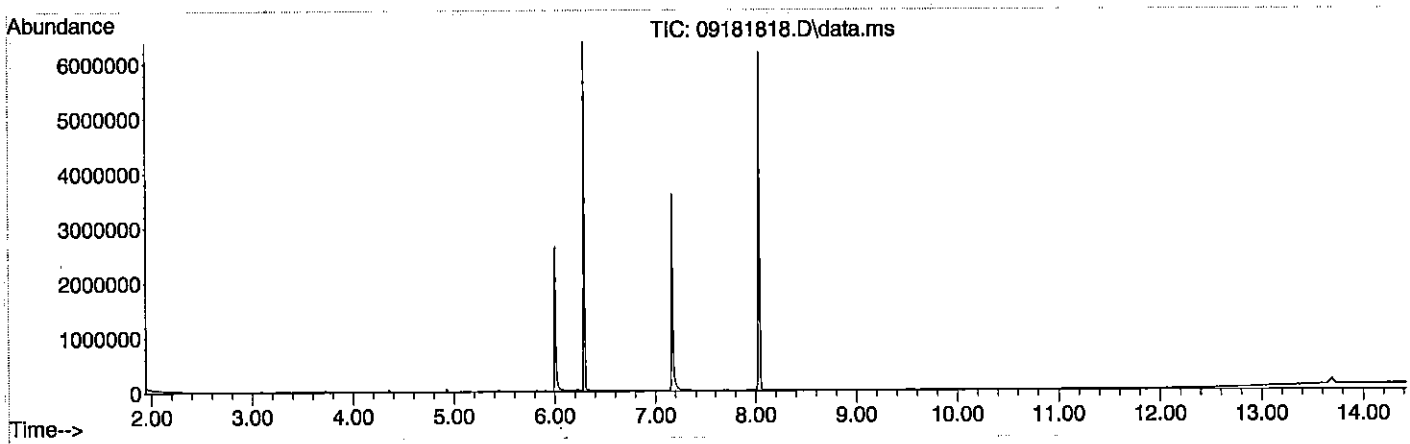
Quant Time: Sep 19 12:34:03 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:35:16 2018
Response via : Initial Calibration

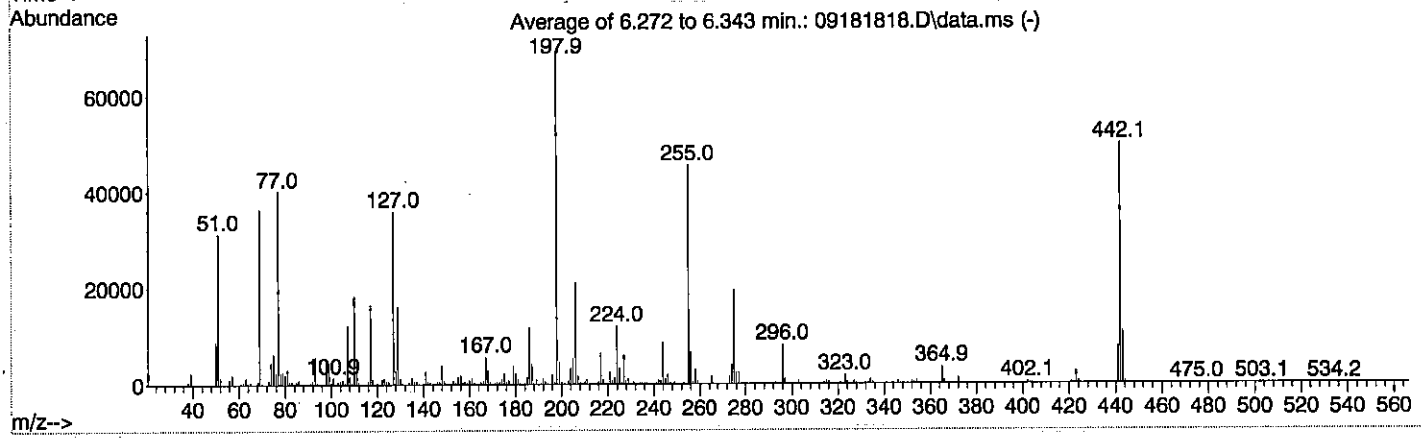


Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181818.D
Acq On : 18 Sep 2018 7:26 pm
Operator : EB
Sample : 50 UG/ML DFTPP
Misc : 300-0195
ALS Vial : 3 Sample Multiplier: 1

Integration File: 8270.P

Method : E:\Methods\7S091818.M
Title : 8270/625/1311 Calibration
Last Update : Thu Sep 20 14:12:06 2018



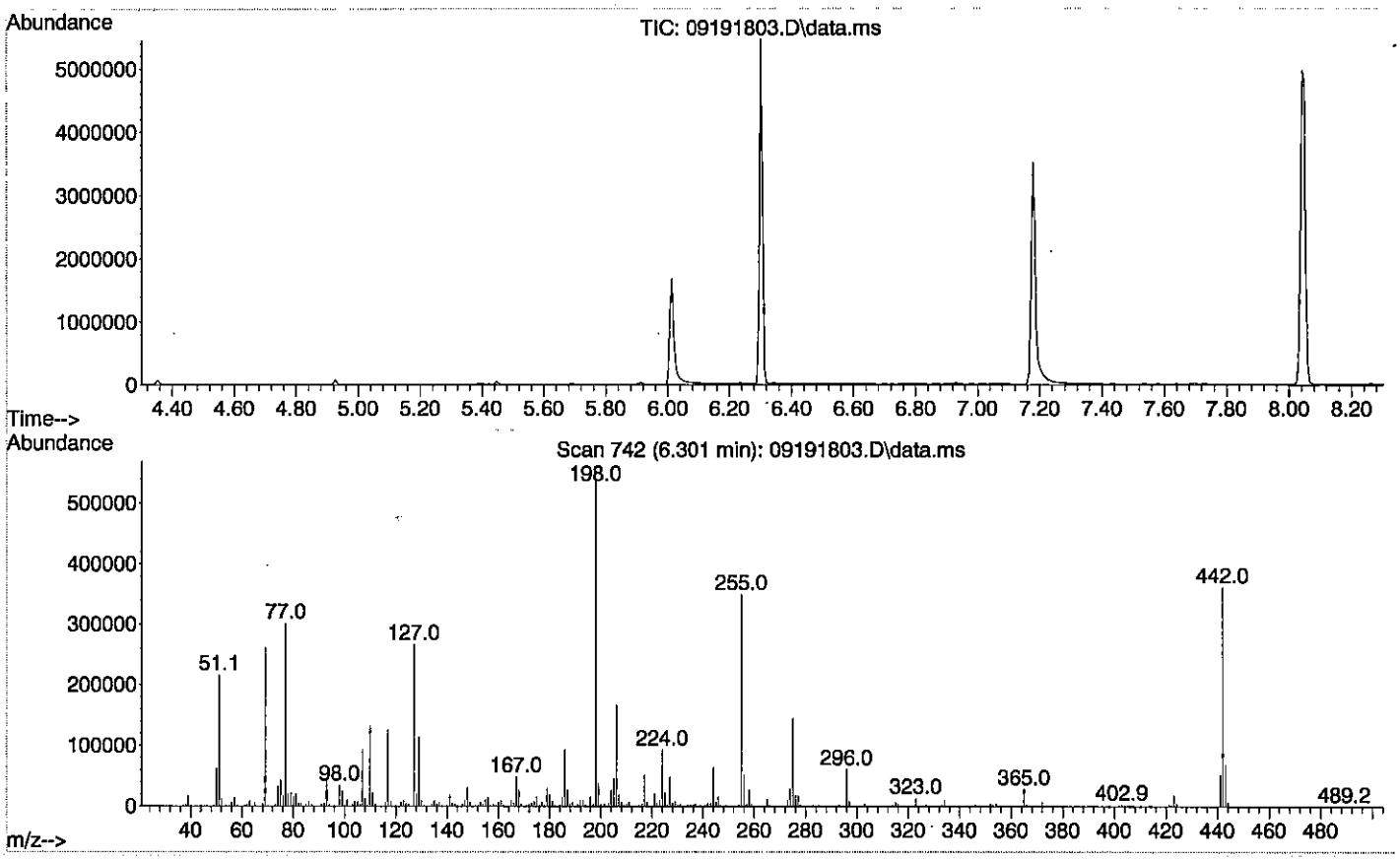

Spectrum Information: Average of 6.272 to 6.343 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 45.0 | 31258 | PASS |
| 68 | 69 | 0.00 | 2 | 1.9 | 701 | PASS |
| 69 | 198 | 0.00 | 100 | 52.5 | 36409 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 222 | PASS |
| 127 | 198 | 10 | 80 | 51.7 | 35911 | PASS |
| 197 | 198 | 0.00 | 1 | 0.6 | 393 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 69407 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 4698 | PASS |
| 275 | 198 | 10 | 60 | 28.1 | 19477 | PASS |
| 365 | 198 | 1 | 100 | 5.1 | 3571 | PASS |
| 441 | 443 | 0.01 | 100 | 71.4 | 7775 | PASS |
| 442 | 198 | 50 | 100 | 72.0 | 49958 | PASS |
| 443 | 442 | 15 | 24 | 21.8 | 10893 | PASS |

Data Path : E:\SVMS7\7S\7S091918\
Data File : 09191803.D
Acq On : 19 Sep 2018 11:49 am
Operator : EB
Sample : 50 UG/ML DFTPP
Misc : 300-0195
ALS Vial : 3 Sample Multiplier: 1

Integration File: 8270.P

Method : E:\Methods\7S091818.M
Title : 8270/625/1311 Calibration
Last Update : Thu Sep 20 14:12:06 2018




Spectrum Information: Scan 742

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 39.8 | 215808 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 4016 | PASS |
| 69 | 198 | 0.00 | 100 | 48.2 | 260928 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 1228 | PASS |
| 127 | 198 | 10 | 80 | 49.3 | 266880 | PASS |
| 197 | 198 | 0.00 | 1 | 0.7 | 3945 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 541888 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 36920 | PASS |
| 275 | 198 | 10 | 60 | 26.8 | 145024 | PASS |
| 365 | 198 | 1 | 100 | 5.3 | 28488 | PASS |
| 441 | 443 | 0.01 | 100 | 74.5 | 51696 | PASS |
| 442 | 198 | 50 | 100 | 66.8 | 362240 | PASS |
| 443 | 442 | 15 | 24 | 19.2 | 69416 | PASS |

# Response Factor Report SVMS8

Method Path : E:\Methods\
Method File : 8S092318.M
Title : 8270/625/1311 Calibration
Last Update : Mon Oct 01 15:38:13 2018
Response Via : Initial Calibration

Calibration Files
0.1 =09231820.D 0.5 =09231821.D 1 =09231822.D 5 =09231823.D 10 =09231824.D 20 =09231825.D 40 =09231826.D 50 =09231827.D
60 =09231828.D

| | | Compound | 0.1 | 0.5 | 1 | 5 | 10 | 20 | 40 | 50 | 60 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | | |
| 2) | | 1,4-Dioxane | 0.348 | 0.337 | 0.305 | 0.296 | 0.289 | 0.277 | 0.274 | 0.256 | 0.298 | | 10.51 |
| 3) | | Pyridine | 0.729 | 0.571 | 0.685 | 0.723 | 0.738 | 0.715 | 0.698 | 0.679 | 0.692 | | 7.68 |
| 4) | | N-Nitrosodimet... | 0.224 | 0.214 | 0.205 | 0.201 | 0.197 | 0.188 | 0.183 | 0.180 | 0.199 | | 7.63 |
| 5) | S | 2-Fluorophenol | 0.706 | 0.692 | 0.682 | 0.743 | 0.772 | 0.751 | 0.727 | 0.713 | 0.735 | 0.724 | 3.98 |
| 6) | P | Benzaldehyde | 0.441 | 0.421 | 0.378 | 0.367 | 0.332 | 0.403 | 0.343 | 0.349 | 0.379 | | 10.29 |
| 7) | S | Phenol-d6 | 0.841 | 0.853 | 0.860 | 0.962 | 0.990 | 0.965 | 0.851 | 0.803 | 0.831 | 0.884 | 7.77 |
| 8) | CP | Phenol | 0.900 | 0.928 | 1.007 | 1.004 | 1.002 | 0.891 | 0.838 | 0.821 | 0.924 | | 8.08 |
| 9) | | Aniline | 1.152 | 1.208 | 1.356 | 1.339 | 1.339 | 1.170 | 1.102 | 1.085 | 1.219 | | 9.11 |
| 10) | P | Bis(2-chloroet... | 0.828 | 0.834 | 0:808 | 0.786 | 0.771 | 0.725 | 0.690 | 0.679 | 0.765 | | 7.92 |
| 11) | P | 2-Chlorophenol | 0.788 | 0.822 | 0.876 | 0.878 | 0.888 | 0.828 | 0.799 | 0.785 | 0.833 | | 5.08 |
| 12) | | 1,3-Dichlorobe... | 1.045 | 1.060 | 1.031 | 1.006 | 0.986 | 0.921 | 0.881 | 0.842 | 0.972 | | 8.32 |
| 13) | C | 1,4-Dichlorobe... | 1.111 | 1.062 | 1.040 | 1.018 | 0.993 | 0.919 | 0.887 | 0.849 | 0.985 | | 9.28 |
| 14) | | Benzyl alcohol | 0.428 | 0.442 | 0.510 | 0.543 | 0.557 | 0.512 | 0.484 | 0.502 | 0.497 | | 9.01 |
| 15) | | 1,2-Dichlorobe... | 1.024 | 1.015 | 1.002 | 0.974 | 0.947 | 0.882 | 0.846 | 0.817 | 0.938 | | 8.57 |
| 16) | P | 2-Methylphenol | 0.620 | 0.645 | 0.688 | 0.686 | 0.698 | 0.625 | 0.584 | 0.588 | 0.642 | | 7.05 |
| 17) | P | Dichloroisopro... | 0.748 | 0.758 | 0.742 | 0.716 | 0.686 | 0.606 | 0.560 | 0.540 | 0.670 | | 13.20 |
| 18) | P | 3-Methylphenol | 0.776 | 0.788 | 0.881 | 0.895 | 0.894 | 0.805 | 0.756 | 0.781 | 0.822 | | 7.04 |
| 19) | P | 4-Methylphenol | 0.776 | 0.788 | 0.881 | 0.895 | 0.894 | 0.805 | 0.756 | 0.780 | 0.822 | | 7.05 |
| 20) | P | 3&4-Methylphenol | 0.776 | 0.788 | 0.881 | 0.895 | 0.894 | 0.805 | 0.756 | 0.783 | 0.822 | | 7.02 |
| 21) | P | Acetophenone | 1.225 | 1.234 | 1.244 | 1.211 | 1.190 | 1.009 | 0.923 | 0.906 | 1.118 | | 13.06 |
| 22) | P | N-Nitrosodi-n-... | 0.481 | 0.503 | 0.549 | 0.545 | 0.535 | 0.444 | 0.399 | 0.384 | 0.480# | | 13.52 |
| 23) | P | Hexachloroethane | 0.358 | 0.341 | 0.360 | 0.353 | 0.348 | 0.326 | 0.315 | 0.302 | 0.338 | | 6.35 |
| 24) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | | |
| 25) | S | Nitrobenzene-d5 | 0.267 | 0.269 | 0.265 | 0.277 | 0.302 | 0.305 | 0.306 | 0.301 | 0.315 | 0.290 | 6.78 |
| 26) | P | Nitrobenzene | 0.247 | 0.262 | 0.294 | 0.303 | 0.310 | 0.302 | 0.298 | 0.286 | 0.288 | | 7.67 |
| 27) | P | Isophorone | 0.537 | 0.552 | 0.625 | 0.647 | 0.653 | 0.617 | 0.594 | 0.614 | 0.605 | | 6.90 |
| 28) | CP | 2-Nitrophenol | 0.091 | 0.090 | 0.122 | 0.147 | 0.165 | 0.180 | 0.185 | 0.184 | 0.145 | | 27.57# |
| 29) | P | 2,4-Dimethylph... | 0.270 | 0.277 | 0.329 | 0.338 | 0.355 | 0.335 | 0.324 | 0.321 | 0.319 | | 9.35 |
| 30) | P | Bis(2-chloroet... | 0.382 | 0.397 | 0.421 | 0.419 | 0.412 | 0.389 | 0.375 | 0.364 | 0.395 | | 5.37 |
| 31) | | Benzoic acid | 0.047 | 0.056 | 0.074 | 0.091 | 0.129 | 0.156 | 0.162 | 0.188 | 0.113 | | 47.02 |
| 32) | CP | 2,4-Dichloroph... | 0.212 | 0.226 | 0.284 | 0.304 | 0.319 | 0.315 | 0.311 | 0.311 | 0.286 | | 14.85 |
| 33) | | 1,2,4-Trichlor... | 0.347 | 0.350 | 0.346 | 0.349 | 0.346 | 0.339 | 0.335 | 0.314 | 0.341 | | 3.52 |
| 34) | | 4-Chlorophenol | 0.284 | 0.303 | 0.367 | 0.393 | 0.406 | 0.373 | 0.359 | 0.357 | 0.355 | | 11.78 |
| 35) | P | Naphthalene | 1.165 | 1.149 | 1.143 | 1.143 | 1.115 | 1.112 | 1.043 | 1.021 | 1.021 | 1.101 | 5.22 |

Response Factor Report SVMS8

Method Path : E:\Methods\
Method File : 8S092318.M
Title : 8270/625/1311 Calibration

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36) | P | 4-Chloroaniline | | 0.402 | 0.431 | 0.460 | 0.472 | 0.481 | 0.438 | 0.420 | 0.414 | 0.440 | 6.45 |
| 37) | | 2,6-Dichloroph... | | 0.252 | 0.272 | 0.304 | 0.315 | 0.320 | 0.304 | 0.296 | 0.292 | 0.294 | 7.64 |
| 38) | CP | Hexachlorobuta... | | 0.193 | 0.192 | 0.198 | 0.196 | 0.197 | 0.202 | 0.201 | 0.192 | 0.196 | 1.99 |
| 39) | P | Caprolactam | | 0.085 | 0.076 | 0.089 | 0.103 | 0.113 | 0.110 | 0.106 | 0.119 | 0.100 | 15.27 |
| 40) | CP | 4-Chloro-3-met... | | 0.205 | 0.225 | 0.274 | 0.295 | 0.312 | 0.290 | 0.281 | 0.297 | 0.272 | 13.77 |
| 41) | P | 2-Methylnaphth... | 0.755 | 0.723 | 0.771 | 0.792 | 0.795 | 0.792 | 0.739 | 0.716 | 0.700 | 0.754 | 4.80 |
| 42) | | 1-Methylnaphth... | 0.697 | 0.729 | 0.748 | 0.766 | 0.765 | 0.757 | 0.698 | 0.669 | 0.662 | 0.721 | 5.67 |
| 43) | P | 1,2,4,5-Tetrac... | | 0.391 | 0.394 | 0.393 | 0.389 | 0.388 | 0.366 | 0.349 | 0.350 | 0.377 | 5.13 |
| 44) | P | 1,1-Biphenyl | | 0.953 | 0.977 | 0.979 | 0.974 | 0.967 | 0.881 | 0.836 | 0.844 | 0.926 | 6.73 |
| 45) | | 2,3,5,6-Tetrac... | | 0.108 | 0.110 | 0.169 | 0.192 | 0.217 | 0.206 | 0.230 | 0.231 | 0.183 | 27.29 |
| 46) | P | 2,3,4,6-Tetrac... | | 0.127 | 0.153 | 0.206 | 0.225 | 0.244 | 0.215 | 0.213 | 0.241 | 0.203 | 20.46 |
| 47) | | 1,4-Dinitroben... | | 0.033 | 0.040 | 0.062 | 0.085 | 0.106 | 0.107 | 0.115 | 0.129 | 0.085 | 42.35 |
| 48) | | 1,3-Dinitroben... | | 0.045 | 0.055 | 0.098 | 0.122 | 0.142 | 0.132 | 0.136 | 0.154 | 0.111 | 36.92 |
| 49) | | 1,2-Dinitroben... | | 0.041 | 0.051 | 0.082 | 0.093 | 0.103 | 0.096 | 0.091 | 0.105 | 0.083 | 28.74 |
| 50) | I | Acenaphthene-d10 | | ----------ISTD---------- | | | | | | | | | |
| 51) | P | Hexachlorocycl... | | 0.236 | 0.245 | 0.284 | 0.318 | 0.348 | 0.397 | 0.416 | 0.376 | 0.328 | 20.87 |
| 52) | CP | 2,4,6-Trichlor... | | 0.226 | 0.249 | 0.338 | 0.351 | 0.391 | 0.391 | 0.391 | 0.382 | 0.340 | 19.61 |
| 53) | P | 2,4,5-Trichlor... | | 0.248 | 0.265 | 0.334 | 0.390 | 0.397 | 0.410 | 0.412 | 0.414 | 0.359 | 19.03 |
| 54) | S | 2-Fluorobiphenyl | 1.323 | 1.374 | 1.416 | 1.447 | 1.472 | 1.422 | 1.390 | 1.380 | 1.327 | 1.395 | 3.61 |
| 55) | P | 2-Chloronaphth... | 1.147 | 1.165 | 1.192 | 1.219 | 1.208 | 1.203 | 1.177 | 1.175 | 1.090 | 1.175 | 3.32 |
| 56) | P | 2-Nitroaniline | | 0.120 | 0.120 | 0.179 | 0.211 | 0.242 | 0.237 | 0.233 | 0.241 | 0.198 | 26.40 |
| 57) | P | Dimethylphthalate | | 1.255 | 1.291 | 1.400 | 1.400 | 1.418 | 1.330 | 1.280 | 1.315 | 1.336 | 4.64 |
| 58) | P | Acenaphthylene | 1.493 | 1.582 | 1.728 | 1.946 | 1.965 | 1.987 | 1.881 | 1.859 | 1.753 | 1.799 | 9.68 |
| 59) | P | 2,6-Dinitrotol... | | 0.155 | 0.184 | 0.276 | 0.306 | 0.330 | 0.318 | 0.309 | 0.328 | 0.276 | 24.71 |
| 60) | P | 3-Nitroaniline | | 0.157 | 0.182 | 0.289 | 0.322 | 0.359 | 0.338 | 0.330 | 0.362 | 0.292 | 27.14 |
| 61) | CP | Acenaphthene | 1.111 | 1.226 | 1.349 | 1.249 | 1.223 | 1.236 | 1.149 | 1.131 | 1.082 | 1.195 | 7.02 |
| 62) | P | 2,4-Dinitrophenol | | 0.019 | 0.023 | 0.050 | 0.068 | 0.101 | 0.121 | 0.137 | 0.169 | 0.086 | 63.53 |
| 63) | P | Dibenzofuran | | 1.771 | 1.812 | 1.823 | 1.789 | 1.808 | 1.716 | 1.670 | 1.622 | 1.751 | 4.22 |
| 64) | P | 4-Nitrophenol | | 0.071 | 0.071 | 0.110 | 0.142 | 0.168 | 0.153 | 0.157 | 0.176 | 0.131 | 32.18 |
| 65) | P | 2,4-Dinitrotol... | | 0.155 | 0.182 | 0.329 | 0.378 | 0.431 | 0.405 | 0.389 | 0.438 | 0.338 | 32.65 |
| 66) | P | Diethylphthalate | | 1.121 | 1.212 | 1.353 | 1.376 | 1.395 | 1.276 | 1.213 | 1.249 | 1.274 | 7.43 |
| 67) | P | Fluorene | 1.273 | 1.305 | 1.395 | 1.481 | 1.460 | 1.463 | 1.311 | 1.265 | 1.234 | 1.354 | 7.11 |
| 68) | P | 4-Chlorophenyl... | | 0.692 | 0.720 | 0.721 | 0.721 | 0.734 | 0.695 | 0.684 | 0.676 | 0.705 | 3.01 |
| 69) | P | 4-Nitroaniline | | 0.167 | 0.189 | 0.308 | 0.347 | 0.396 | 0.342 | 0.363 | 0.383 | 0.312 | 27.92 |
| 70) | P | Atrazine | | 0.252 | 0.282 | 0.387 | 0.411 | 0.448 | 0.395 | 0.417 | 0.434 | 0.378 | 18.95 |
| 71) | I | Phenanthrene-d10 | | ----------ISTD---------- | | | | | | | | | |
| 72) | P | 4,6-Dinitro-2-... | | 0.021 | 0.021 | 0.046 | 0.067 | 0.091 | 0.104 | 0.108 | 0.124 | 0.073 | 55.09 |
| 73) | CP | N-Nitrosodiphe... | | 0.569 | 0.623 | 0.689 | 0.690 | 0.692 | 0.691 | 0.696 | 0.617 | 0.658 | 7.37 |
| 74) | | 1,2-Diphenylhy... | | 0.525 | 0.589 | 0.649 | 0.646 | 0.631 | 0.632 | 0.628 | 0.547 | 0.606 | 7.79 |
| 75) | S | 2,4,6-Tribromo... | 0.064 | 0.075 | 0.083 | 0.125 | 0.146 | 0.152 | 0.162 | 0.165 | 0.176 | 0.127 | 33.62 |
| 76) | P | 4-Bromophenyl ... | | 0.210 | 0.221 | 0.234 | 0.243 | 0.246 | 0.257 | 0.258 | 0.241 | 0.239 | 6.97 |
| 77) | P | Hexachlorobenzene | | 0.294 | 0.296 | 0.289 | 0.290 | 0.295 | 0.300 | 0.301 | 0.288 | 0.294 | 1.60 |
| 78) | CP | Pentachlorophenol | | 0.042 | 0.050 | 0.097 | 0.124 | 0.152 | 0.158 | 0.163 | 0.179 | 0.121 | 43.36# |
| 79) | P | Phenanthrene | 1.298 | 1.270 | 1.217 | 1.202 | 1.170 | 1.177 | 1.103 | 1.106 | 1.033 | 1.175 | 7.19 |
| 80) | P | Anthracene | 0.926 | 0.998 | 1.071 | 1.174 | 1.188 | 1.209 | 1.142 | 1.126 | 1.052 | 1.099 | 8.60 |

Response Factor Report SVMS8

Method Path : E:\Methods\
Method File : 8S092318.M
Title : 8270/625/1311 Calibration

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81) | P | Carbazole | | 0.883 | 0.949 | 1.091 | 1.101 | 1.142 | 1.028 | 1.012 | 1.010 | 1.027 | 8.22 |
| 82) | P | Di-n-butylphth... | | 0.567 | 0.700 | 1.056 | 1.165 | 1.241 | 1.184 | 1.152 | 1.194 | 1.032 | 24.62 |
| 83) | CP | Fluoranthene | 0.820 | 0.906 | 0.980 | 1.217 | 1.236 | 1.330 | 1.151 | 1.140 | 1.211 | 1.110 | 15.31 |
| 84) | I | Chrysene-d12 | | ----------ISTD---------- | | | | | | | | | |
| 85) | | 3,3-Dimethylbe... | | 0.134 | 0.140 | 0.262 | 0.362 | 0.493 | 0.618 | 0.625 | 0.714 | 0.418 | 54.30 |
| 86) | | Benzidine | | 0.122 | 0.141 | 0.251 | 0.342 | 0.450 | 0.605 | 0.598 | 0.684 | 0.399 | 54.80 |
| 87) | | Pyrene | 0.797 | 0.847 | 1.000 | 1.154 | 1.224 | 1.197 | 1.335 | 1.259 | 1.202 | 1.113 | 16.90 |
| 88) | S | 4-Terphenyl-d14 | 0.685 | 0.718 | 0.815 | 0.922 | 1.012 | 0.959 | 1.069 | 1.002 | 1.065 | 0.916 | 15.76 |
| 89) | P | Butylbenzylpht... | | 0.136 | 0.175 | 0.360 | 0.448 | 0.488 | 0.538 | 0.513 | 0.547 | 0.401 | 40.58 |
| 90) | P | Benzo[a]anthra... | 1.754 | 0.970 | 0.927 | 1.071 | 1.091 | 1.141 | 1.116 | 1.129 | 1.117 | 1.146 | 20.90 |
| 91) | P | 3,3'-Dichlorob... | | 0.110 | 0.134 | 0.248 | 0.303 | 0.382 | 0.399 | 0.419 | 0.454 | 0.306 | 42.81 |
| 92) | P | Chrysene | 1.046 | 1.028 | 1.064 | 1.104 | 1.107 | 1.147 | 1.117 | 1.114 | 1.086 | 1.090 | 3.48 |
| 93) | P | Bis(2-ethylhex... | | 0.171 | 0.202 | 0.412 | 0.532 | 0.611 | 0.673 | 0.648 | 0.719 | 0.496 | 42.95 |
| 94) | I | Perylene-d12 | | ----------ISTD---------- | | | | | | | | | |
| 95) | CP | Di-n-octylphth... | | 0.224 | 0.255 | 0.359 | 0.564 | 0.736 | 0.910 | 0.994 | 1.289 | 0.666 | 57.55# |
| 96) | P | Benzo(b)fluora... | 0.391 | 0.461 | 0.536 | 0.874 | 0.975 | 1.096 | 1.097 | 1.105 | 1.203 | 0.860 | 36.47 |
| 97) | P | Benzo(k)fluora... | 0.435 | 0.522 | 0.678 | 0.983 | 1.115 | 1.143 | 1.163 | 1.154 | 1.190 | 0.932 | 32.42 |
| 98) | CP | Benzo(a)pyrene | 0.330 | 0.389 | 0.435 | 0.794 | 0.907 | 1.034 | 1.070 | 1.092 | 1.107 | 0.795 | 40.79# |
| 99) | P | Indeno(1,2,3-c... | 0.240 | 0.278 | 0.285 | 0.501 | 0.551 | 0.733 | 0.911 | 0.962 | 0.938 | 0.600 | 49.47 |
| 100) | P | Dibenz(a,h)ant... | 0.258 | 0.327 | 0.365 | 0.601 | 0.662 | 0.823 | 0.965 | 1.017 | 1.052 | 0.674 | 45.76 |
| 101) | P | Benzo(g,h,i)pe... | 0.278 | 0.396 | 0.401 | 0.686 | 0.722 | 0.855 | 1.041 | 1.091 | 1.039 | 0.723 | 42.73 |

(#) = Out of Range

# Partial Calibration Report SVMS8

Method Path : E:\Methods\
Method File : 8S092318.M
Title : 8270/625/1311 Calibration
Last Update : Mon Oct 01 15:38:13 2018
Response Via : Initial Calibration

Calibration Files
0.1 =09231820 0.5 =09231821 1 =09231822 5 =09231823 10 =09231824 20 =09231825 40 =09231826
50 =09231827 60 =09231828

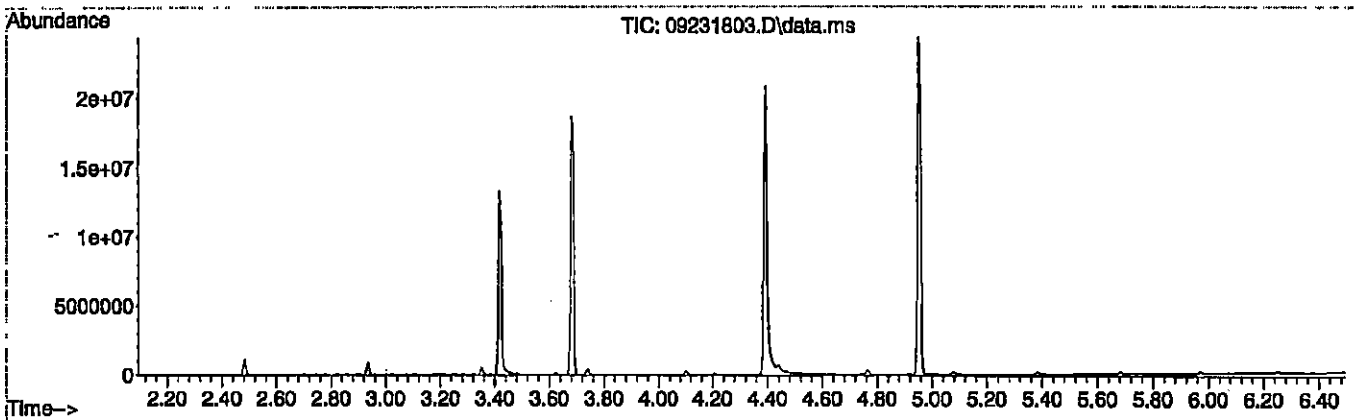
| | | Compound | Fit | Constant | Linear | Quad | RSD/Cf |
|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenz... | | ----------ISTD---------- | | | |
| 24) | I | Naphthalene-d8 | | ----------ISTD---------- | | | |
| 28) | CP | 2-Nitrophenol | Quad | -0.0012 | 0.1506 | 0.0258 | 0.9988 |
| 31) | | Benzoic acid | Quad | -0.0007 | 0.0862 | 0.0668 | 0.9983 |
| 39) | P | Caprolactam | Quad | -0.0004 | 0.1013 | 0.0093 | 0.9973 |
| 45) | | 2,3,5,6-Tetrachl... | Quad | -0.0015 | 0.1925 | 0.0265 | 0.9984 |
| 46) | P | 2,3,4,6-Tetrachl... | Quad | -0.0014 | 0.2245 | 0.0034 | 0.9961 |
| 47) | | 1,4-Dinitrobenzene | Quad | -0.0008 | 0.0804 | 0.0310 | 0.9976 |
| 48) | | 1,3-Dinitrobenzene | Quad | -0.0012 | 0.1199 | 0.0195 | 0.9965 |
| 49) | | 1,2-Dinitrobenzene | Quad | -0.0008 | 0.0946 | 0.0038 | 0.9964 |
| 50) | I | Acenaphthene-d10 | | ----------ISTD---------- | | | |
| 51) | P | Hexachlorocyclop... | Quad | -0.0021 | 0.3386 | 0.0423 | 0.9959 |
| 52) | CP | 2,4,6-Trichlorop... | Quad | -0.0026 | 0.3807 | 0.0065 | 0.9993 |
| 53) | P | 2,4,5-Trichlorop... | Quad | -0.0024 | 0.3877 | 0.0204 | 0.9996 |
| 56) | P | 2-Nitroaniline | Quad | -0.0020 | 0.2248 | 0.0113 | 0.9986 |
| 59) | P | 2,6-Dinitrotoluene | Quad | -0.0025 | 0.3166 | 0.0047 | 0.9990 |
| 60) | P | 3-Nitroaniline | Quad | -0.0028 | 0.3322 | 0.0133 | 0.9980 |
| 62) | P | 2,4-Dinitrophenol | Quad | -0.0006 | 0.0526 | 0.0738 | 0.9971 |
| 64) | P | 4-Nitrophenol | Quad | -0.0013 | 0.1415 | 0.0194 | 0.9961 |
| 65) | P | 2,4-Dinitrotoluene | Quad | -0.0039 | 0.3916 | 0.0215 | 0.9969 |
| 69) | P | 4-Nitroaniline | Quad | -0.0031 | 0.3576 | 0.0113 | 0.9970 |
| 70) | P | Atrazine | Quad | -0.0025 | 0.4182 | 0.0042 | 0.9981 |
| 71) | I | Phenanthrene-d10 | | ----------ISTD---------- | | | |
| 72) | P | 4,6-Dinitro-2-me... | Quad | -0.0008 | 0.0644 | 0.0390 | 0.9979 |
| 75) | S | 2,4,6-Tribromoph... | Quad | -0.0007 | 0.1371 | 0.0252 | 0.9995 |
| 78) | CP | Pentachlorophenol | Quad | -0.0014 | 0.1245 | 0.0355 | 0.9984 |
| 82) | P | Di-n-butylphthalate | Quad | -0.0101 | 1.2187 | -0.0229 | 0.9993 |
| 83) | CP | Fluoranthene | Quad | -0.0020 | 1.2608 | -0.0598 | 0.9978 |
| 84) | I | Chrysene-d12 | | ----------ISTD---------- | | | |
| 85) | | 3,3-Dimethylbenz... | Quad | -0.0042 | 0.3472 | 0.2449 | 0.9980 |
| 86) | | Benzidine | Quad | -0.0038 | 0.3224 | 0.2437 | 0.9977 |
| 87) | | Pyrene | Quad | -0.0023 | 1.2479 | -0.0007 | 0.9979 |
| 88) | S | 4-Terphenyl-d14 | Quad | -0.0025 | 0.9652 | 0.0616 | 0.9989 |
| 89) | P | Butylbenzylphtha... | Quad | -0.0054 | 0.4577 | 0.0615 | 0.9985 |
| 90) | P | Benzo[a]anthracene | Quad | 0.0007 | 1.0972 | 0.0183 | 0.9995 |
| 91) | P | 3,3'-Dichloroben... | Quad | -0.0034 | 0.3090 | 0.0958 | 0.9986 |
| 93) | P | Bis(2-ethylhexyl... | Quad | -0.0063 | 0.5340 | 0.1204 | 0.9981 |
| 94) | I | Perylene-d12 | | ----------ISTD---------- | | | |
| 95) | CP | Di-n-octylphthalate | Quad | -0.0025 | 0.3798 | 0.5637 | 0.9954 |
| 96) | P | Benzo(b)fluorant... | Quad | -0.0028 | 0.9440 | 0.1606 | 0.9983 |
| 97) | P | Benzo(k)fluorant... | Quad | -0.0031 | 1.0791 | 0.0745 | 0.9990 |
| 98) | CP | Benzo(a)pyrene | Quad | -0.0032 | 0.9078 | 0.1459 | 0.9982 |
| 99) | P | Indeno(1,2,3-cd)... | Quad | -0.0020 | 0.5780 | 0.2763 | 0.9958 |
| 100) | P | Dibenz(a,h)anthr... | Quad | -0.0021 | 0.6505 | 0.2846 | 0.9987 |
| 101) | P | Benzo(g,h,i)pery... | Quad | -0.0024 | 0.7451 | 0.2372 | 0.9964 |

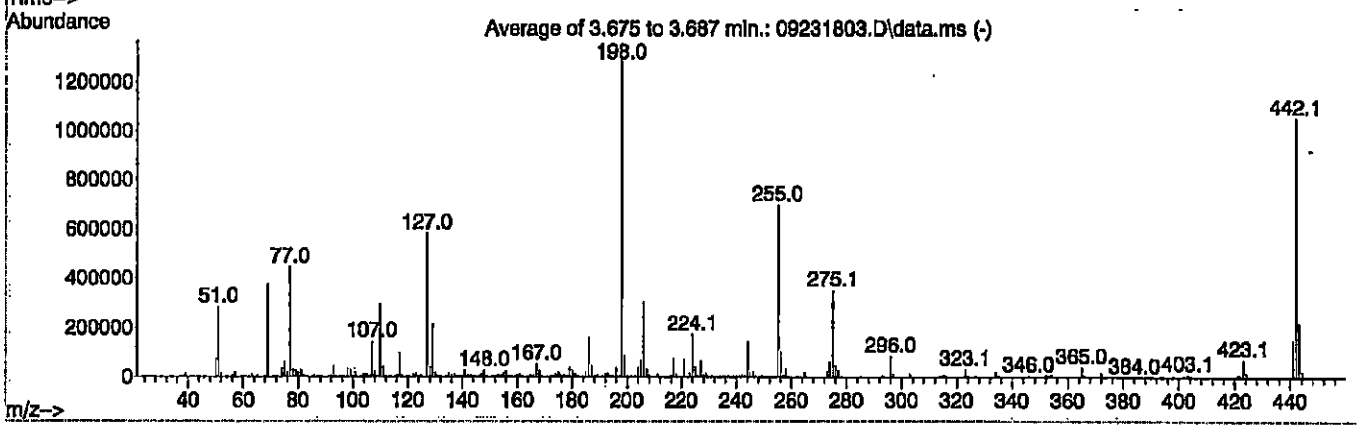
# DFTPP

Data Path : E:\8S092318\
Data File : 09231803.D
Acq On : 23 Sep 2018 02:40 pm
Operator : RM
Sample : 50 ug/mL DFTPP
Misc : 300-0363A
ALS Vial : 2 Sample Multiplier: 1

Integration File: 8270.P

Method : E:\Methods\8S092318.M
Title : 8270/625/1311 Calibration
Last Update : Mon Oct 01 15:38:13 2018




Spectrum Information: Average of 3.675 to 3.687 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 21.7 | 282830 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 5767 | PASS |
| 69 | 198 | 0.00 | 100 | 28.5 | 372087 | PASS |
| 70 | 69 | 0.00 | 2 | 0.2 | 745 | PASS |
| 127 | 198 | 10 | 80 | 44.6 | 581744 | PASS |
| 197 | 198 | 0.00 | 1 | 0.4 | 5706 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 1304907 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 89782 | PASS |
| 275 | 198 | 10 | 60 | 26.9 | 351635 | PASS |
| 365 | 198 | 1 | 100 | 3.1 | 40567 | PASS |
| 441 | 443 | 0.01 | 100 | 70.2 | 153792 | PASS |
| 442 | 198 | 50 | 100 | 80.8 | 1054168 | PASS |
| 443 | 442 | 15 | 24 | 20.8 | 218984 | PASS |

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231820.D
Acq On : 23 Sep 2018 08:08 pm
Operator : RM
Sample : 0.1 ug/mL BNA
Misc : 300-0390A
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 15:16:11 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

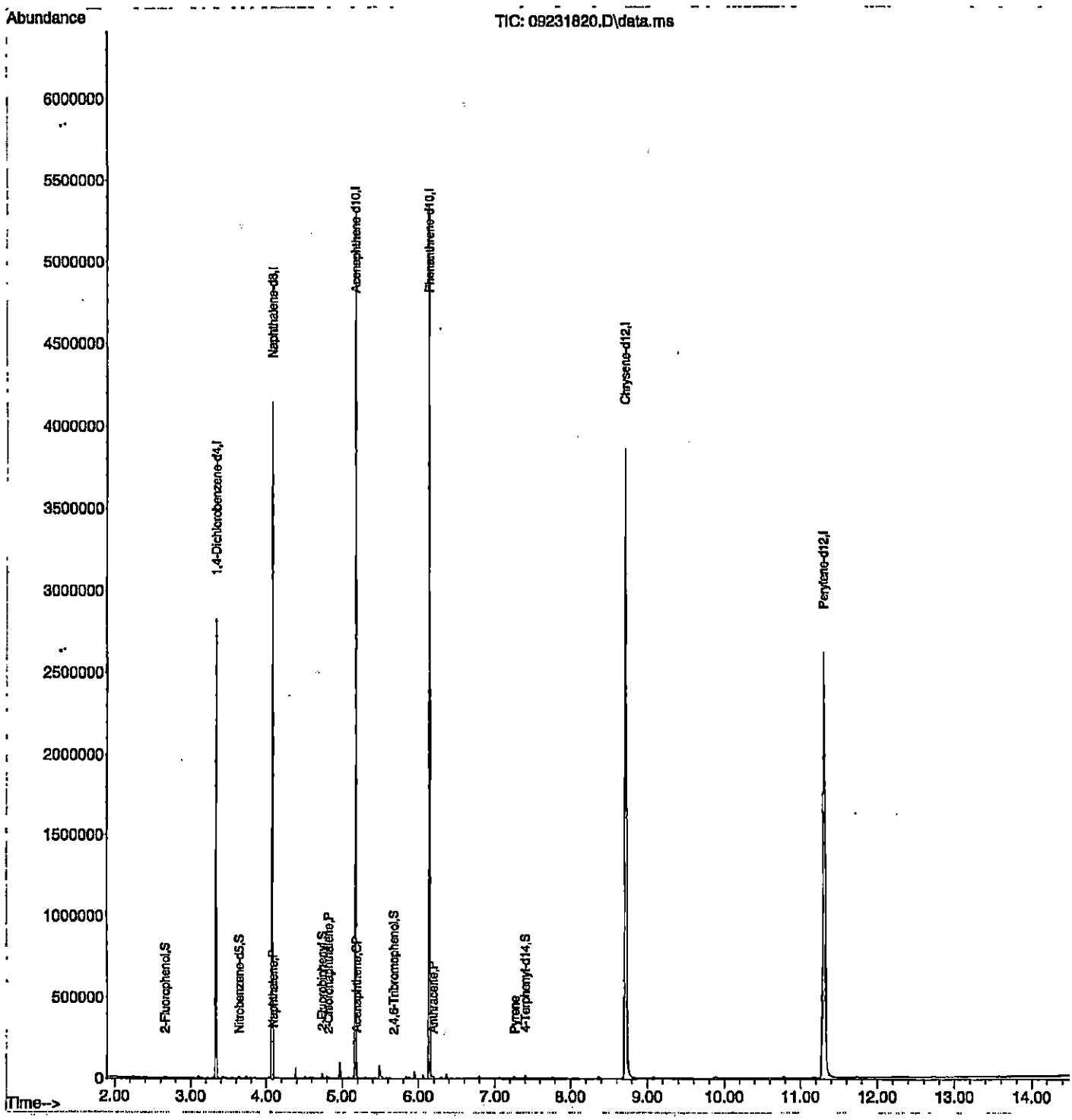
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 529517 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1355715 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 833889 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.139 | 188 | 1610959 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.722 | 240 | 1807650 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.304 | 264 | 1807822 | 40.00 | ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.657 | 112 | 2335 | 0.27 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 0.54%# | | | |
| 7) Phenol-d6 | 3.098 | 99 | 2783 | 0.03 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 0.06%# | | | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 2266 | 0.13 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 0.26%# | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 6896 | 0.25 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 0.50%# | | | |
| 75) 2,4,6-Tribromophenol | 5.675 | 330 | 646 | 0.07 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 0.14%# | | | |
| 88) 4-Terphenyl-d14 | 7.404 | 244 | 7744 | 0.20 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 0.40%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 35) Naphthalene | 4.087 | 128 | 3950 | 0.12 | ug/ml# | 1 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 2392 | 0.11 | ug/ml | 97 |
| 61) Acenaphthene | 5.187 | 154 | 2316 | 0.12 | ug/ml | 81 |
| 80) Anthracene | 6.192 | 178 | 3728 | 0.11 | ug/ml | 99 |
| 87) Pyrene | 7.269 | 202 | 3600 | 0.10 | ug/ml | 96 |
| 90) Benzo[a]anthracene | 8.716 | 228 | 7925 | Below Cal | | 90 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231820.D
Acq On : 23 Sep 2018 08:08 pm
Operator : RM
Sample : 0.1 ug/mL BNA
Misc : 300-0390A
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 15:16:11 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231821.D
Acq On : 23 Sep 2018 08:28 pm
Operator : RM
Sample : 0.5 ug/mL BNA
Misc : 300-0390B
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 24 15:16:15 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 497934 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1287696 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 797723 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.140 | 188 | 1534816 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.722 | 240 | 1782836 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.310 | 264 | 1798711 | 40.00 | ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.657 | 112 | 4309 | 0.52 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 1.04%# | | | |
| 7) Phenol-d6 | 3.099 | 99 | 5311 | 0.28 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 0.56%# | | | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 4332 | 0.26 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 0.52%# | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 13698 | 0.51 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 1.02%# | | | |
| 75) 2,4,6-Tribromophenol | 5.675 | 330 | 1436 | 0.17 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 0.34%# | | | |
| 88) 4-Terphenyl-d14 | 7.410 | 244 | 15994 | 0.41 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 0.82%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Pyridine | 2.204 | 79 | 4538m | 0.86 | ug/ml | |
| 8) Phenol | 3.104 | 94 | 5604 | 0.73 | ug/ml | 99 |
| 11) 2-Chlorophenol | 3.216 | 128 | 4904 | 0.50 | ug/ml | 97 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 6504 | 0.58 | ug/ml | 97 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 6374 | 0.58 | ug/ml | 98 |
| 28) 2-Nitrophenol | 3.840 | 139 | 1459 | 0.54 | ug/ml | 91 |
| 30) Bis(2-chloroethoxy)met | 3.904 | 93 | 6151 | 0.55 | ug/ml | 97 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 5589 | 0.52 | ug/ml | 97 |
| 35) Naphthalene | 4.087 | 128 | 18492 | 0.58 | ug/ml | 76 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 11640 | 0.44 | ug/ml | 99 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 11729 | 0.47 | ug/ml | 99 |
| 51) Hexachlorocyclopentadiene | 4.604 | 237 | 2352 | 0.52 | ug/ml | 97 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 11614 | 0.57 | ug/ml | 99 |
| 58) Acenaphthylene | 5.081 | 152 | 15777 | 0.49 | ug/ml | 99 |
| 61) Acenaphthene | 5.187 | 154 | 12225m | 0.55 | ug/ml | |
| 62) 2,4-Dinitrophenol | 5.198 | 184 | 192 | 0.53 | ug/ml# | 24 |
| 63) Dibenzofuran | 5.298 | 168 | 17655 | 0.51 | ug/ml | 98 |
| 67) Fluorene | 5.516 | 166 | 13017 | 0.42 | ug/ml | 97 |
| 79) Phenanthrene | 6.157 | 178 | 24372 | 0.60 | ug/ml | 96 |
| 80) Anthracene | 6.193 | 178 | 19154 | 0.53 | ug/ml | 99 |
| 83) Fluoranthene | 7.057 | 202 | 17386 | 0.31 | ug/ml | 99 |
| 87) Pyrene | 7.269 | 202 | 18880 | 0.55 | ug/ml | 98 |
| 90) Benzo[a]anthracene | 8.710 | 228 | 21610 | 0.30 | ug/ml | 96 |
| 92) Chrysene | 8.757 | 228 | 22907 | 0.46 | ug/ml | 97 |
| 96) Benzo(b)fluoranthene | 10.545 | 252 | 10367 | 0.22 | ug/ml | 97 |
| 97) Benzo(k)fluoranthene | 10.604 | 252 | 11745 | 0.24 | ug/ml | 95 |
| 98) Benzo(a)pyrene | 11.181 | 252 | 8746 | 0.19 | ug/ml | 97 |
| 99) Indeno(1,2,3-cd)pyrene | 13.510 | 276 | 6253 | 0.13 | ug/ml | 95 |

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231821.D
Acq On : 23 Sep 2018 08:28 pm
Operator : RM
Sample : 0.5 ug/mL BNA
Misc : 300-0390B
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 24 15:16:15 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

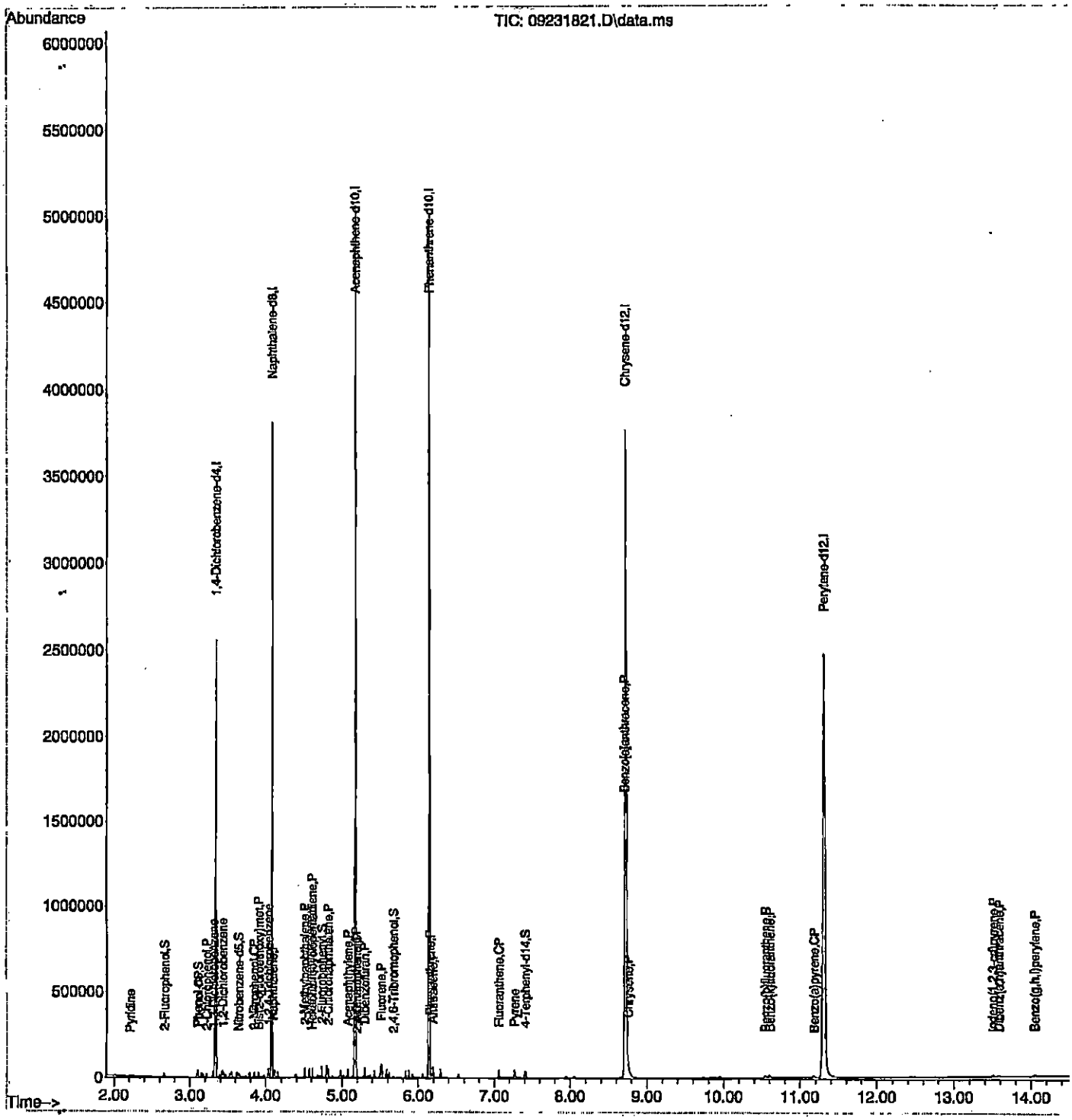
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 100) Dibenz(a,h)anthracene | 13.586 | 278 | 7348 | 0.14 ug/ml | 96 |
| 101) Benzo(g,h,i)perylene | 14.051 | 276 | 8895 | 0.19 ug/ml | 91 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231821.D
Acq On : 23 Sep 2018 08:28 pm
Operator : RM
Sample : 0.5 ug/mL BNA
Misc : 300-0390B
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 24 15:16:15 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231822.D
Acq On : 23 Sep 2018 08:48 pm
Operator : RM
Sample : 1 ug/mL BNA
Misc : 300-0390C
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 24 15:16:18 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 569187 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1464576 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 898988 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.139 | 188 | 1698112 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.722 | 240 | 1806730 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.304 | 264 | 1625998 | 40.00 | ug/ml | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 2.657 | 112 | 9711 | 1.03 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 2.06%# | | | |
| 7) Phenol-d6 | 3.098 | 99 | 12243 | 0.78 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 1.56%# | | | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 9721 | 0.50 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 1.00%# | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 31824 | 1.06 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 2.12%# | | | |
| 75) 2,4,6-Tribromophenol | 5.675 | 330 | 3504 | 0.38 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 0.76%# | | | |
| 88) 4-Terphenyl-d14 | 7.404 | 244 | 36794 | 0.93 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 1.86%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.016 | 88 | 4798 | 0.82 | ug/ml | 96 |
| 3) Pyridine | 2.169 | 79 | 8130m | 1.06 | ug/ml | |
| 8) Phenol | 3.104 | 94 | 13207 | 1.20 | ug/ml | 99 |
| 9) Aniline | 3.151 | 93 | 17187 | 0.71 | ug/ml | 97 |
| 10) Bis(2-chloroethyl)ether | 3.169 | 93 | 11870 | 0.71 | ug/ml | 98 |
| 11) 2-Chlorophenol | 3.216 | 128 | 11694 | 1.05 | ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 15083 | 1.17 | ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.340 | 146 | 15119 | 0.89 | ug/ml | 78 |
| 14) Benzyl alcohol | 3.393 | 108 | 6290 | 0.84 | ug/ml | 97 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 14447 | 1.15 | ug/ml | 99 |
| 16) 2-Methylphenol | 3.440 | 107 | 9184 | 0.84 | ug/ml | 98 |
| 17) Dichloroisopropyl ether | 3.463 | 45 | 10791 | 0.57 | ug/ml | 96 |
| 18) 3-Methylphenol | 3.528 | 107 | 11220 | 0.79 | ug/ml# | 86 |
| 19) 4-Methylphenol | 3.528 | 107 | 11220 | 0.79 | ug/ml# | 86 |
| 20) 3&4-Methylphenol | 3.528 | 107 | 11220 | 0.79 | ug/ml# | 86 |
| 21) Acetophenone | 3.551 | 105 | 17565 | 0.82 | ug/ml# | 97 |
| 22) N-Nitrosodi-n-propylamine | 3.540 | 70 | 7152 | 0.63 | ug/ml | 95 |
| 23) Hexachloroethane | 3.622 | 117 | 4848 | 0.67 | ug/ml | 97 |
| 27) Isophorone | 3.787 | 82 | 20222 | 0.65 | ug/ml | 97 |
| 28) 2-Nitrophenol | 3.840 | 139 | 3299 | 0.77 | ug/ml | 91 |
| 29) 2,4-Dimethylphenol | 3.845 | 107 | 10138 | 0.72 | ug/ml | 89 |
| 30) Bis(2-chloroethoxy)met | 3.904 | 93 | 14524 | 1.15 | ug/ml | 96 |
| 32) 2,4-Dichlorophenol | 3.975 | 162 | 8279 | 0.88 | ug/ml | 98 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 12798 | 1.04 | ug/ml | 99 |
| 34) 4-Chlorophenol | 4.028 | 128 | 11105 | 0.82 | ug/ml | 99 |
| 35) Naphthalene | 4.087 | 128 | 41851 | 1.16 | ug/ml | 87 |
| 36) 4-Chloroaniline | 4.110 | 127 | 15775 | 0.93 | ug/ml | 100 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 9959 | 0.77 | ug/ml | 97 |

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231822.D
Acq On : 23 Sep 2018 08:48 pm
Operator : RM
Sample : 1 ug/mL BNA
Misc : 300-0390C
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 24 15:16:18 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

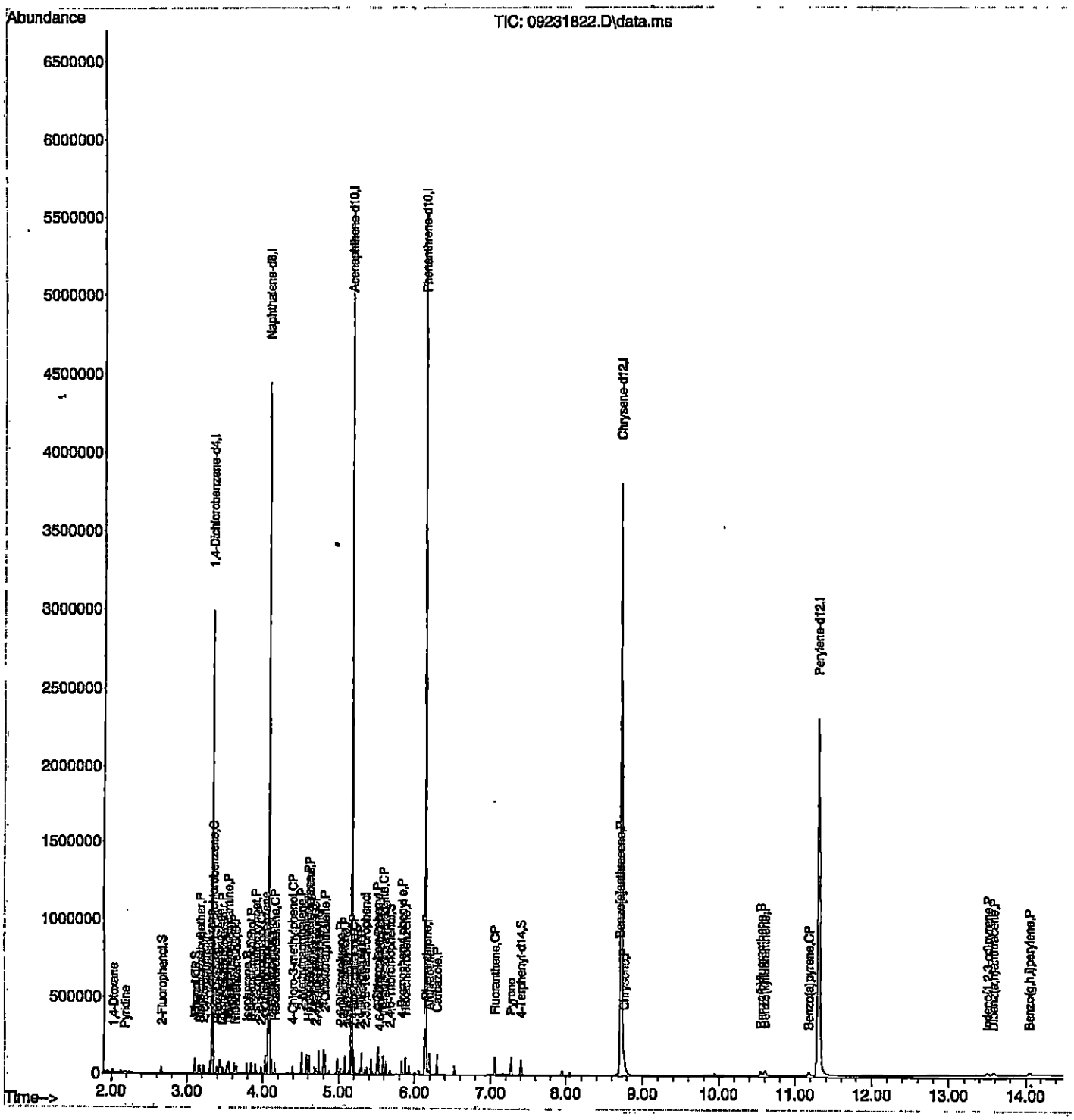
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 38) Hexachlorobutadiene | 4.157 | 225 | 7046 | 0.78 ug/ml | 98 |
| 40) 4-Chloro-3-methylphenol | 4.393 | 107 | 8237 | 0.67 ug/ml | 95 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 28225 | 0.94 ug/ml | 99 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 27397 | 0.97 ug/ml | 98 |
| 43) 1,2,4,5-Tetrachloroben... | 4.610 | 216 | 14417 | 0.79 ug/ml | 99 |
| 44) 1,1-Biphenyl | 4.798 | 154 | 35783 | 0.91 ug/ml | 99 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.345 | 232 | 4034 | 0.52 ug/ml | 96 |
| 49) 1,2-Dinitrobenzene | 5.057 | 168 | 1865 | 0.53 ug/ml# | 87 |
| 51) Hexachlorocyclopentadiene | 4.604 | 237 | 5507 | 0.84 ug/ml | 96 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 5586 | 0.61 ug/ml | 97 |
| 53) 2,4,5-Trichlorophenol | 4.704 | 196 | 5955 | 0.62 ug/ml | 96 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 26781 | 1.17 ug/ml | 99 |
| 58) Acenaphthylene | 5.081 | 152 | 38843 | 1.07 ug/ml | 99 |
| 59) 2,6-Dinitrotoluene | 5.022 | 165 | 4131 | 0.56 ug/ml | 86 |
| 60) 3-Nitroaniline | 5.134 | 138 | 4097 | 0.74 ug/ml | 94 |
| 61) Acenaphthene | 5.192 | 154 | 30320 | 1.16 ug/ml | 95 |
| 62) 2,4-Dinitrophenol | 5.198 | 184 | 516 | 0.58 ug/ml# | 49 |
| 63) Dibenzofuran | 5.298 | 168 | 40715 | 1.04 ug/ml | 99 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 4086 | 0.65 ug/ml | 85 |
| 67) Fluorene | 5.522 | 166 | 31347 | 0.99 ug/ml | 99 |
| 68) 4-Chlorophenyl phenyl | 5.510 | 204 | 16191 | 0.79 ug/ml | 99 |
| 69) 4-Nitroaniline | 5.522 | 138 | 4243 | 0.57 ug/ml | 77 |
| 72) 4,6-Dinitro-2-methylph | 5.540 | 198 | 899 | 0.53 ug/ml# | 78 |
| 73) N-Nitrosodiphenylamine | 5.587 | 169 | 26428 | 1.07 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.616 | 77 | 25014 | 0.53 ug/ml | 97 |
| 76) 4-Bromophenyl phenyl e | 5.834 | 248 | 9377 | 0.78 ug/ml | 99 |
| 77) Hexachlorobenzene | 5.881 | 284 | 12558 | 0.85 ug/ml | 99 |
| 79) Phenanthrene | 6.157 | 178 | 51665 | 1.23 ug/ml | 97 |
| 80) Anthracene | 6.192 | 178 | 45452 | 1.11 ug/ml | 99 |
| 81) Carbazole | 6.292 | 167 | 40305 | 0.96 ug/ml | 98 |
| 83) Fluoranthene | 7.057 | 202 | 41607 | 0.68 ug/ml | 99 |
| 87) Pyrene | 7.269 | 202 | 45160 | 1.29 ug/ml | 99 |
| 90) Benzo[a]anthracene | 8.704 | 228 | 41880 | 0.75 ug/ml | 98 |
| 92) Chrysene | 8.757 | 228 | 48072 | 0.95 ug/ml | 99 |
| 96) Benzo(b)fluoranthene | 10.545 | 252 | 21795 | 0.51 ug/ml | 98 |
| 97) Benzo(k)fluoranthene | 10.598 | 252 | 27541 | 0.63 ug/ml | 99 |
| 98) Benzo(a)pyrene | 11.174 | 252 | 17697 | 0.42 ug/ml | 98 |
| 99) Indeno(1,2,3-cd)pyrene | 13.510 | 276 | 11583 | 0.27 ug/ml | 99 |
| 100) Dibenz(a,h)anthracene | 13.586 | 278 | 14822 | 0.30 ug/ml | 97 |
| 101) Benzo(g,h,i)perylene | 14.051 | 276 | 16281 | 0.38 ug/ml | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231822.D
Acq On : 23 Sep 2018 08:48 pm
Operator : RM
Sample : 1 ug/mL BNA
Misc : 300-0390C
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 24 15:16:18 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231823.D
Acq On : 23 Sep 2018 09:07 pm
Operator : RM
Sample : 5 ug/mL BNA
Misc : 300-0390D
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 24 15:16:21 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 545790 | 40.00 ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1400021 | 40.00 ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 862844 | 40.00 ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.139 | 188 | 1620597 | 40.00 ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.722 | 240 | 1860205 | 40.00 ug/ml | 0.00 |
| 94) Perylene-d12 | 11.304 | 264 | 1838568 | 40.00 ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.657 | 112 | 50693 | 5.60 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery | = 11.20%# | |
| 7) Phenol-d6 | 3.098 | 99 | 65656 | 5.24 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery | = 10.48% | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 48395m | 2.63 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery | = 5.26%# | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 156029 | 5.42 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery | = 10.84%# | |
| 75) 2,4,6-Tribromophenol | 5.675 | 330 | 25283 | 2.84 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery | = 5.68%# | |
| 88) 4-Terphenyl-d14 | 7.404 | 244 | 214287 | 5.25 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery | = 10.50%# | |
| **Target Compounds** | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.016 | 88 | 20801 | 3.62 ug/ml | 100 |
| 3) Pyridine | 2.151 | 79 | 46720 | 3.81 ug/ml | 99 |
| 4) N-Nitrosodimethylamine | 2.116 | 42 | 13957 | 0.53 ug/ml | 95 |
| 6) Benzaldehyde | 3.098 | 77 | 25775 | 3.20 ug/ml | 97 |
| 8) Phenol | 3.104 | 94 | 68694 | 5.23 ug/ml | 100 |
| 9) Aniline | 3.151 | 93 | 92523 | 5.08 ug/ml | 99 |
| 10) Bis(2-chloroethyl)ether | 3.169 | 93 | 55147 | 5.76 ug/ml | 98 |
| 11) 2-Chlorophenol | 3.216 | 128 | 59776 | 5.59 ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 70317 | 5.68 ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.340 | 146 | 70984 | 5.36 ug/ml | 97 |
| 14) Benzyl alcohol | 3.393 | 108 | 34798 | 4.83 ug/ml | 97 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 68385 | 5.67 ug/ml | 99 |
| 16) 2-Methylphenol | 3.440 | 107 | 46971 | 4.46 ug/ml | 99 |
| 17) Dichloroisopropyl ether | 3.463 | 45 | 50630 | 2.79 ug/ml | 98 |
| 18) 3-Methylphenol | 3.528 | 107 | 60089 | 4.39 ug/ml# | 58 |
| 19) 4-Methylphenol | 3.528 | 107 | 60089 | 4.39 ug/ml# | 58 |
| 20) 3&4-Methylphenol | 3.528 | 107 | 60089 | 4.39 ug/ml# | 58 |
| 21) Acetophenone | 3.545 | 105 | 84849 | 4.12 ug/ml# | 98 |
| 22) N-Nitrosodi-n-propylamine | 3.540 | 70 | 37429 | 3.12 ug/ml | 98 |
| 23) Hexachloroethane | 3.622 | 117 | 24547 | 3.56 ug/ml | 98 |
| 26) Nitrobenzene | 3.651 | 77 | 51434 | 2.67 ug/ml | 97 |
| 27) Isophorone | 3.787 | 82 | 109380 | 3.65 ug/ml | 99 |
| 28) 2-Nitrophenol | 3.840 | 139 | 21291 | 3.48 ug/ml | 90 |
| 29) 2,4-Dimethylphenol | 3.845 | 107 | 57579 | 3.90 ug/ml | 98 |
| 30) Bis(2-chloroethoxy)met | 3.904 | 93 | 73711 | 6.09 ug/ml | 96 |
| 31) Benzoic acid | 3.869 | 122 | 12875 | 1.38 ug/ml | 87 |
| 32) 2,4-Dichlorophenol | 3.975 | 162 | 49774 | 4.77 ug/ml | 99 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 60497 | 5.15 ug/ml | 99 |

Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231823.D
Acq On : 23 Sep 2018 09:07 pm
Operator : RM
Sample : 5 ug/mL BNA
Misc : 300-0390D
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 24 15:16:21 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chlorophenol | 4.028 | 128 | 64184 | 4.98 ug/ml | 99 |
| 35) Naphthalene | 4.087 | 128 | 200002 | 5.79 ug/ml | 98 |
| 36) 4-Chloroaniline | 4.110 | 127 | 80425 | 4.95 ug/ml | 100 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 53168 | 4.83 ug/ml | 99 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 34680 | 4.01 ug/ml | 98 |
| 39) Caprolactam | 4.322 | 55 | 15531 | 1.56 ug/ml | 98 |
| 40) 4-Chloro-3-methylphenol | 4.393 | 107 | 47965 | 3.82 ug/ml | 98 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 138686 | 4.82 ug/ml | 99 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 133996 | 4.94 ug/ml | 100 |
| 43) 1,2,4,5-Tetrachloroben... | 4.610 | 216 | 68703 | 3.94 ug/ml | 99 |
| 44) 1,1-Biphenyl | 4.798 | 154 | 171382 | 4.58 ug/ml | 99 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.345 | 232 | 29528 | 2.66 ug/ml | 99 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.369 | 232 | 35968 | 2.70 ug/ml | 99 |
| 47) 1,4-Dinitrobenzene | 4.957 | 168 | 10778 | 1.71 ug/ml | 95 |
| 48) 1,3-Dinitrobenzene | 5.004 | 168 | 17166 | 2.51 ug/ml | 89 |
| 49) 1,2-Dinitrobenzene | 5.057 | 168 | 14389 | 3.13 ug/ml | 100 |
| 51) Hexachlorocyclopentadiene | 4.604 | 237 | 30583 | 3.74 ug/ml | 99 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 36409 | 4.11 ug/ml | 99 |
| 53) 2,4,5-Trichlorophenol | 4.698 | 196 | 36050 | 3.90 ug/ml | 100 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 131494 | 5.97 ug/ml | 100 |
| 56) 2-Nitroaniline | 4.875 | 65 | 19338 | 1.39 ug/ml | 95 |
| 57) Dimethylphthalate | 4.981 | 163 | 151012 | 4.32 ug/ml | 100 |
| 58) Acenaphthylene | 5.081 | 152 | 209873 | 6.05 ug/ml | 100 |
| 59) 2,6-Dinitrotoluene | 5.022 | 165 | 29761 | 4.43 ug/ml | 89 |
| 60) 3-Nitroaniline | 5.128 | 138 | 31158 | 4.47 ug/ml | 97 |
| 61) Acenaphthene | 5.187 | 154 | 134728 | 5.19 ug/ml | 99 |
| 62) 2,4-Dinitrophenol | 5.192 | 184 | 5427 | 1.40 ug/ml | 93 |
| 63) Dibenzofuran | 5.298 | 168 | 196580 | 5.24 ug/ml | 99 |
| 64) 4-Nitrophenol | 5.216 | 65 | 11852 | 1.12 ug/ml | 96 |
| 65) 2,4-Dinitrotoluene | 5.275 | 165 | 35513 | 3.57 ug/ml | 85 |
| 66) Diethylphthalate | 5.428 | 149 | 145952 | 3.75 ug/ml | 99 |
| 67) Fluorene | 5.516 | 166 | 159694 | 5.43 ug/ml | 100 |
| 68) 4-Chlorophenyl phenyl | 5.510 | 204 | 77754 | 3.95 ug/ml | 99 |
| 69) 4-Nitroaniline | 5.522 | 138 | 33193 | 3.41 ug/ml | 92 |
| 70) Atrazine | 5.922 | 200 | 41784 | 2.68 ug/ml | 99 |
| 72) 4,6-Dinitro-2-methylph | 5.540 | 198 | 9330 | 2.03 ug/ml | 93 |
| 73) N-Nitrosodiphenylamine | 5.581 | 169 | 139509 | 5.94 ug/ml | 99 |
| 74) 1,2-Diphenylhydrazine | 5.610 | 77 | 131525 | 2.90 ug/ml | 98 |
| 76) 4-Bromophenyl phenyl e | 5.834 | 248 | 47444 | 4.14 ug/ml | 99 |
| 77) Hexachlorobenzene | 5.875 | 284 | 58625 | 4.18 ug/ml | 98 |
| 78) Pentachlorophenol | 6.004 | 266 | 19736 | 2.78 ug/ml | 99 |
| 79) Phenanthrene | 6.151 | 178 | 243442 | 6.20 ug/ml | 99 |
| 80) Anthracene | 6.187 | 178 | 237800 | 5.84 ug/ml | 99 |
| 81) Carbazole | 6.292 | 167 | 220932 | 5.53 ug/ml | 99 |
| 82) Di-n-butylphthalate | 6.522 | 149 | 213915 | 4.57 ug/ml | 99 |
| 83) Fluoranthene | 7.057 | 202 | 246440 | 4.22 ug/ml | 99 |
| 85) 3,3-Dimethylbenzidine | 7.933 | 212 | 60957 | 1.93 ug/ml | 99 |
| 86) Benzidine | 7.163 | 184 | 58257 | 2.64 ug/ml | 100 |
| 87) Pyrene | 7.263 | 202 | 268274 | 7.45 ug/ml | 99 |
| 89) Butylbenzylphthalate | 7.951 | 149 | 83682 | 5.00 ug/ml | 99 |
| 90) Benzo[a]anthracene | 8.698 | 228 | 248977 | 5.23 ug/ml | 100 |

Data Path : E:\8S092318\
Data File : 09231823.D
Acq On : 23 Sep 2018 09:07 pm
Operator : RM
Sample : 5 ug/mL BNA
Misc : 300-0390D
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 24 15:16:21 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

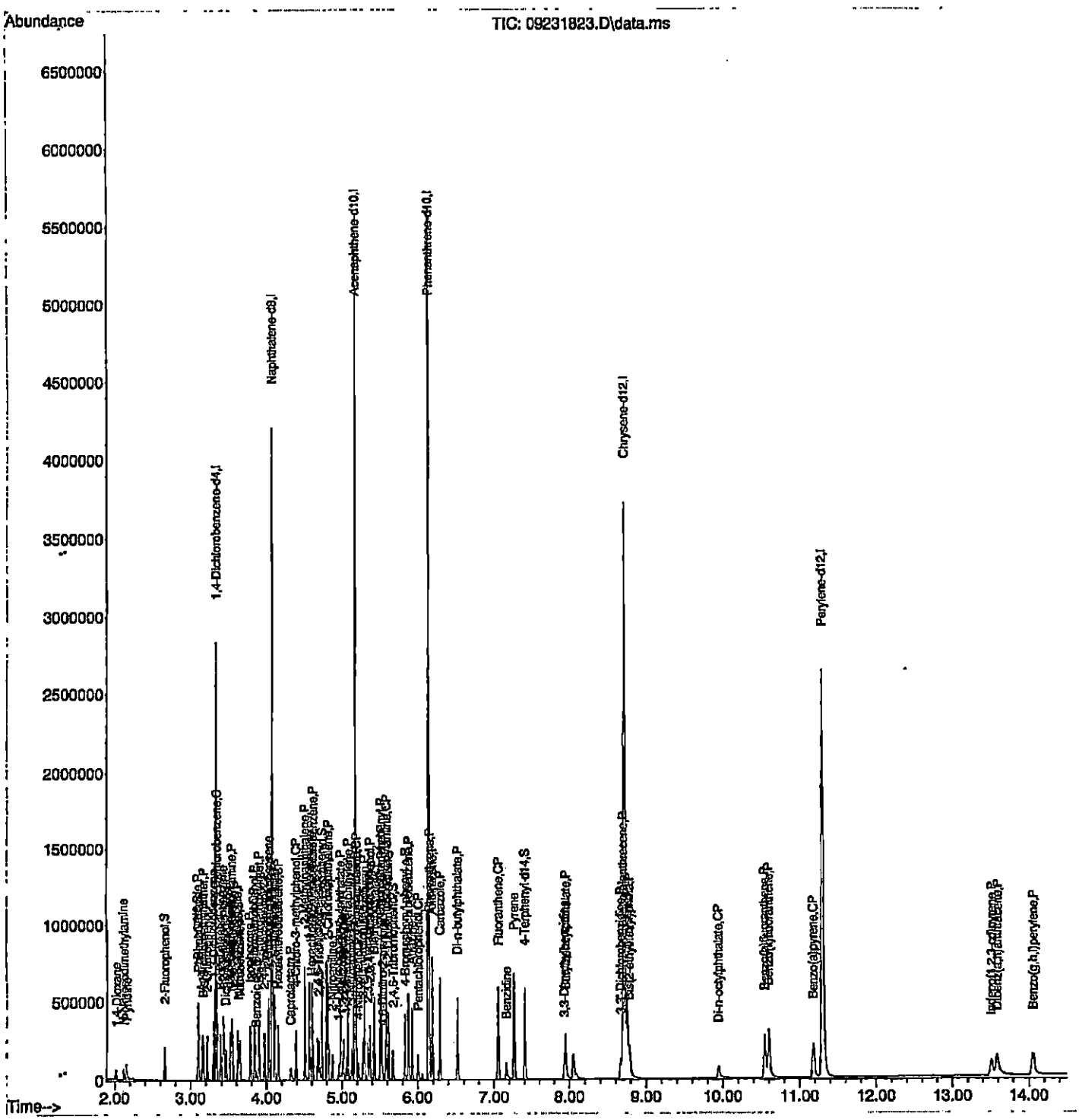
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) 3,3'-Dichlorobenzidine | 8.669 | 252 | 57768 | 2.46 ug/ml | 98 |
| 92) Chrysene | 8.757 | 228 | 256634 | 4.91 ug/ml | 100 |
| 93) Bis(2-ethylhexyl)phtha | 8.781 | 149 | 95782 | 4.11 ug/ml | 99 |
| 95) Di-n-octylphthalate | 9.945 | 149 | 82582 | 3.13 ug/ml | 97 |
| 96) Benzo(b)fluoranthene | 10.545 | 252 | 200789 | 4.17 ug/ml | 98 |
| 97) Benzo(k)fluoranthene | 10.598 | 252 | 226013 | 4.56 ug/ml | 99 |
| 98) Benzo(a)pyrene | 11.180 | 252 | 182485 | 3.86 ug/ml | 99 |
| 99) Indeno(1,2,3-cd)pyrene | 13.510 | 276 | 115121 | 2.37 ug/ml | 98 |
| 100) Dibenz(a,h)anthracene | 13.586 | 278 | 138031 | 2.51 ug/ml | 99 |
| 101) Benzo(g,h,i)perylene | 14.051 | 276 | 157751 | 3.29 ug/ml | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231823.D
Acq On : 23 Sep 2018 09:07 pm
Operator : RM
Sample : 5 ug/mL BNA
Misc : 300-0390D
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 24 15:16:21 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231824.D
Acq On : 23 Sep 2018 09:27 pm
Operator : RM
Sample : 10 ug/mL BNA
Misc : 300-0390E
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 24 15:16:24 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 603210 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1505296 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 926191 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.145 | 188 | 1728223 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.728 | 240 | 1871105 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.310 | 264 | 1687416 | 40.00 | ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.657 | 112 | 116370 | 11.63 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 23.26% | | | |
| 7) Phenol-d6 | 3.099 | 99 | 149317 | 10.88 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 21.76% | | | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 113557m | 5.73 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 11.46%# | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 340910 | 11.03 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 22.06%# | | | |
| 75) 2,4,6-Tribromophenol | 5.675 | 330 | 62898 | 6.62 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 13.24%# | | | |
| 88) 4-Terphenyl-d14 | 7.410 | 244 | 473401 | 11.52 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 23.04%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.016 | 88 | 44689 | 7.10 | ug/ml | 100 |
| 3) Pyridine | 2.146 | 79 | 109035 | 7.49 | ug/ml | 99 |
| 4) N-Nitrosodimethylamine | 2.116 | 42 | 30375 | 1.05 | ug/ml | 97 |
| 6) Benzaldehyde | 3.099 | 77 | 55409 | 6.23 | ug/ml | 99 |
| 8) Phenol | 3.104 | 94 | 151360 | 10.13 | ug/ml | 99 |
| 9) Aniline | 3.152 | 93 | 201955 | 10.23 | ug/ml | 100 |
| 10) Bis(2-chloroethyl)ether | 3.169 | 93 | 118597 | 11.86 | ug/ml | 99 |
| 11) 2-Chlorophenol | 3.216 | 128 | 132458 | 11.22 | ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 151772 | 11.09 | ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.340 | 146 | 153529 | 10.79 | ug/ml | 99 |
| 14) Benzyl alcohol | 3.393 | 108 | 81888 | 10.28 | ug/ml | 99 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 146849 | 11.02 | ug/ml | 99 |
| 16) 2-Methylphenol | 3.440 | 107 | 103519 | 8.89 | ug/ml | 100 |
| 17) Dichloroisopropyl ether | 3.463 | 45 | 108032 | 5.38 | ug/ml | 98 |
| 18) 3-Methylphenol | 3.528 | 107 | 134898 | 8.93 | ug/ml# | 59 |
| 19) 4-Methylphenol | 3.528 | 107 | 134898 | 8.93 | ug/ml# | 59 |
| 20) 3&4-Methylphenol | 3.528 | 107 | 134898 | 8.93 | ug/ml# | 59 |
| 21) Acetophenone | 3.551 | 105 | 182562 | 8.03 | ug/ml# | 97 |
| 22) N-Nitrosodi-n-propylamine | 3.540 | 70 | 82211 | 6.09 | ug/ml | 99 |
| 23) Hexachloroethane | 3.622 | 117 | 53234 | 6.99 | ug/ml | 99 |
| 26) Nitrobenzene | 3.651 | 77 | 114151 | 5.50 | ug/ml | 99 |
| 27) Isophorone | 3.787 | 82 | 243473 | 7.57 | ug/ml | 99 |
| 28) 2-Nitrophenol | 3.840 | 139 | 55402 | 7.97 | ug/ml | 97 |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 127186 | 7.85 | ug/ml | 99 |
| 30) Bis(2-chloroethoxy)met | 3.904 | 93 | 157657 | 12.11 | ug/ml | 97 |
| 31) Benzoic acid | 3.881 | 122 | 34251 | 3.40 | ug/ml | 95 |
| 32) 2,4-Dichlorophenol | 3.975 | 162 | 114492 | 9.92 | ug/ml | 99 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 131165 | 10.37 | ug/ml | 99 |

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231824.D
Acq On : 23 Sep 2018 09:27 pm
Operator : RM
Sample : 10 ug/mL BNA
Misc : 300-0390E
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 24 15:16:24 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chlorophenol | 4.028 | 128 | 147776 | 10.67 ug/ml | 99 |
| 35) Naphthalene | 4.087 | 128 | 419754 | 11.30 ug/ml | 99 |
| 36) 4-Chloroaniline | 4.110 | 127 | 177470 | 10.16 ug/ml | 100 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 118412 | 9.90 ug/ml | 100 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 73795 | 7.93 ug/ml | 100 |
| 39) Caprolactam | 4.322 | 55 | 38920 | 3.63 ug/ml | 98 |
| 40) 4-Chloro-3-methylphenol | 4.393 | 107 | 110937 | 8.09 ug/ml | 99 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 299275 | 9.67 ug/ml | 100 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 287874 | 9.88 ug/ml | 100 |
| 43) 1,2,4,5-Tetrachloroben... | 4.610 | 216 | 146484 | 7.82 ug/ml | 100 |
| 44) 1,1-Biphenyl | 4.798 | 154 | 366462 | 9.11 ug/ml | 100 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.346 | 232 | 72264 | 5.74 ug/ml | 100 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.369 | 232 | 84602 | 5.90 ug/ml | 100 |
| 47) 1,4-Dinitrobenzene | 4.957 | 168 | 31827 | 4.72 ug/ml | 99 |
| 48) 1,3-Dinitrobenzene | 5.004 | 168 | 45728 | 6.21 ug/ml | 96 |
| 49) 1,2-Dinitrobenzene | 5.057 | 168 | 34854 | 6.87 ug/ml | 97 |
| 51) Hexachlorocyclopentadiene | 4.604 | 237 | 73734 | 7.99 ug/ml | 99 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 81163 | 8.54 ug/ml | 93 |
| 53) 2,4,5-Trichlorophenol | 4.698 | 196 | 90266 | 9.10 ug/ml | 93 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 279630 | 11.82 ug/ml | 100 |
| 56) 2-Nitroaniline | 4.875 | 65 | 48972 | 3.29 ug/ml | 98 |
| 57) Dimethylphthalate | 4.981 | 163 | 324150 | 8.65 ug/ml | 100 |
| 58) Acenaphthylene | 5.081 | 152 | 455046 | 12.22 ug/ml | 100 |
| 59) 2,6-Dinitrotoluene | 5.022 | 165 | 70940 | 9.72 ug/ml | 89 |
| 60) 3-Nitroaniline | 5.134 | 138 | 74613 | 9.64 ug/ml | 99 |
| 61) Acenaphthene | 5.193 | 154 | 283183 | 9.93 ug/ml | 99 |
| 62) 2,4-Dinitrophenol | 5.198 | 184 | 15837 | 2.94 ug/ml | 98 |
| 63) Dibenzofuran | 5.298 | 168 | 414229 | 10.29 ug/ml | 99 |
| 64) 4-Nitrophenol | 5.216 | 65 | 32899 | 2.73 ug/ml | 94 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 87534 | 7.78 ug/ml | 87 |
| 66) Diethylphthalate | 5.428 | 149 | 318611 | 7.62 ug/ml | 100 |
| 67) Fluorene | 5.522 | 166 | 338142 | 10.46 ug/ml | 99 |
| 68) 4-Chlorophenyl phenyl | 5.510 | 204 | 166841 | 7.89 ug/ml | 99 |
| 69) 4-Nitroaniline | 5.522 | 138 | 80292 | 7.45 ug/ml | 97 |
| 70) Atrazine | 5.928 | 200 | 95134 | 5.69 ug/ml | 99 |
| 72) 4,6-Dinitro-2-methylph | 5.540 | 198 | 29111 | 5.17 ug/ml | 99 |
| 73) N-Nitrosodiphenylamine | 5.587 | 169 | 297966 | 11.90 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.616 | 77 | 278917 | 5.76 ug/ml | 99 |
| 76) 4-Bromophenyl phenyl e | 5.834 | 248 | 104922 | 8.58 ug/ml | 99 |
| 77) Hexachlorobenzene | 5.881 | 284 | 125324 | 8.38 ug/ml | 100 |
| 78) Pentachlorophenol | 6.004 | 266 | 53472 | 6.89 ug/ml | 100 |
| 79) Phenanthrene | 6.157 | 178 | 505580 | 11.81 ug/ml | 100 |
| 80) Anthracene | 6.193 | 178 | 513199 | 11.48 ug/ml | 99 |
| 81) Carbazole | 6.298 | 167 | 475842 | 11.16 ug/ml | 99 |
| 82) Di-n-butylphthalate | 6.528 | 149 | 503448 | 9.68 ug/ml | 100 |
| 83) Fluoranthene | 7.063 | 202 | 533885 | 8.58 ug/ml | 100 |
| 85) 3,3-Dimethylbenzidine | 7.945 | 212 | 169317 | 5.33 ug/ml | 99 |
| 86) Benzidine | 7.169 | 184 | 160035 | 7.21 ug/ml | 100 |
| 87) Pyrene | 7.275 | 202 | 572554 | 15.82 ug/ml | 100 |
| 89) Butylbenzylphthalate | 7.957 | 149 | 209588 | 11.79 ug/ml | 99 |
| 90) Benzo[a]anthracene | 8.710 | 228 | 510513 | 10.72 ug/ml | 100 |

Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231824.D
Acq On : 23 Sep 2018 09:27 pm
Operator : RM
Sample : 10 ug/mL BNA
Misc : 300-0390E
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 24 15:16:24 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

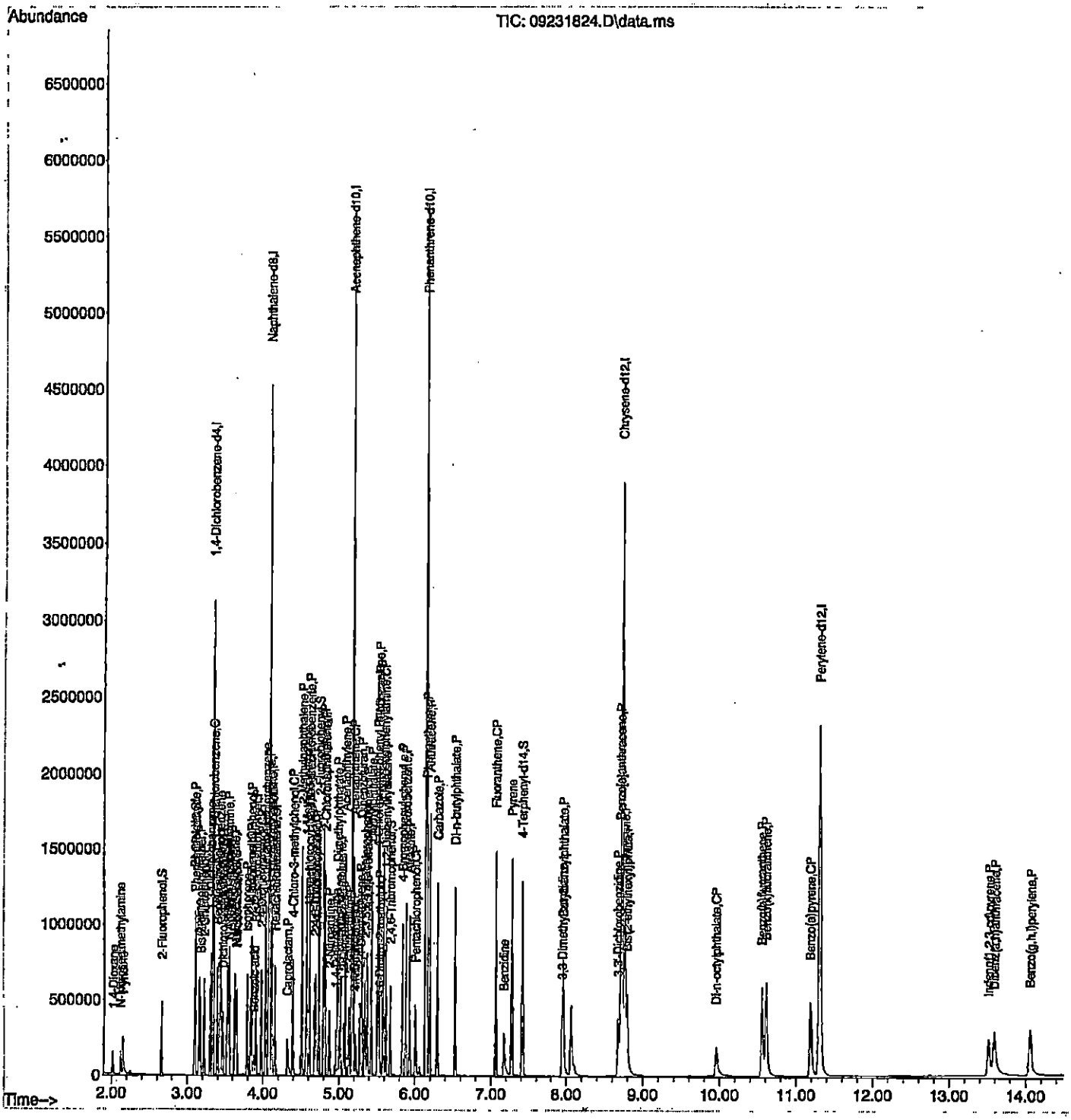
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) 3,3'-Dichlorobenzidine | 8.675 | 252 | 141688 | 5.99 ug/ml | 99 |
| 92) Chrysene | 8.763 | 228 | 517714 | 9.86 ug/ml | 100 |
| 93) Bis(2-ethylhexyl)phtha | 8.792 | 149 | 248881 | 10.05 ug/ml | 99 |
| 95) Di-n-octylphthalate | 9.957 | 149 | 237892 | 9.36 ug/ml | 98 |
| 96) Benzo(b)fluoranthene | 10.551 | 252 | 411499 | 9.32 ug/ml | 99 |
| 97) Benzo(k)fluoranthene | 10.610 | 252 | 470461 | 10.34 ug/ml | 99 |
| 98) Benzo(a)pyrene | 11.186 | 252 | 382666 | 8.83 ug/ml | 100 |
| 99) Indeno(1,2,3-cd)pyrene | 13.516 | 276 | 232624 | 5.22 ug/ml | 99 |
| 100) Dibenz(a,h)anthracene | 13.592 | 278 | 279410 | 5.53 ug/ml | 100 |
| 101) Benzo(g,h,i)perylene | 14.057 | 276 | 304755 | 6.92 ug/ml | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231824.D
Acq On : 23 Sep 2018 09:27 pm
Operator : RM
Sample : 10 ug/mL BNA
Misc : 300-0390E
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 24 15:16:24 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231825.D
Acq On : 23 Sep 2018 09:47 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 24 15:16:27 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 535227 | 40.00 ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1312830 | 40.00 ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 808663 | 40.00 ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.146 | 188 | 1545411 | 40.00 ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.728 | 240 | 1812939 | 40.00 ug/ml | 0.00 |
| 94) Perylene-d12 | 11.310 | 264 | 1842823 | 40.00 ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.657 | 112 | 200888 | 22.62 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 45.24% | | |
| 7) Phenol-d6 | 3.099 | 99 | 258144 | 20.99 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 41.98%# | | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 200448m | 11.60 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 23.20%# | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 575054 | 21.31 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 42.62% | | |
| 75) 2,4,6-Tribromophenol | 5.675 | 330 | 117269 | 13.81 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 27.62% | | |
| 88) 4-Terphenyl-d14 | 7.410 | 244 | 869067 | 21.83 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 43.66% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.010 | 88 | 77404 | 14.18 ug/ml | 100 |
| 3) Pyridine | 2.146 | 79 | 197389 | 14.88 ug/ml | 100 |
| 4) N-Nitrosodimethylamine | 2.116 | 42 | 52840 | 2.05 ug/ml | 99 |
| 6) Benzaldehyde | 3.099 | 77 | 88910 | 11.26 ug/ml | 100 |
| 8) Phenol | 3.104 | 94 | 268259 | 19.91 ug/ml | 100 |
| 9) Aniline | 3.152 | 93 | 358313 | 20.59 ug/ml | 100 |
| 10) Bis(2-chloroethyl)ether | 3.169 | 93 | 206420 | 24.20 ug/ml | 100 |
| 11) 2-Chlorophenol | 3.216 | 128 | 237739 | 22.69 ug/ml | 100 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 263942 | 21.75 ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.340 | 146 | 265868 | 21.51 ug/ml | 100 |
| 14) Benzyl alcohol | 3.393 | 108 | 148941 | 21.08 ug/ml | 100 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 253387 | 21.44 ug/ml | 100 |
| 16) 2-Methylphenol | 3.440 | 107 | 186735 | 18.08 ug/ml | 100 |
| 17) Dichloroisopropyl ether | 3.463 | 45 | 183568 | 10.30 ug/ml | 100 |
| 18) 3-Methylphenol | 3.528 | 107 | 239258 | 17.84 ug/ml# | 87 |
| 19) 4-Methylphenol | 3.528 | 107 | 239258 | 17.84 ug/ml# | 87 |
| 20) 3&4-Methylphenol | 3.528 | 107 | 239258 | 17.84 ug/ml# | 87 |
| 21) Acetophenone | 3.552 | 105 | 318446 | 15.79 ug/ml | 100 |
| 22) N-Nitrosodi-n-propylamine | 3.540 | 70 | 143071 | 11.74 ug/ml | 100 |
| 23) Hexachloroethane | 3.622 | 117 | 93134 | 13.77 ug/ml | 100 |
| 26) Nitrobenzene | 3.652 | 77 | 203532 | 11.25 ug/ml | 100 |
| 27) Isophorone | 3.793 | 82 | 428827 | 15.28 ug/ml | 100 |
| 28) 2-Nitrophenol | 3.840 | 139 | 108494 | 17.39 ug/ml | 100 |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 233264 | 16.06 ug/ml | 100 |
| 30) Bis(2-chloroethoxy)met | 3.904 | 93 | 270752 | 23.85 ug/ml | 100 |
| 31) Benzoic acid | 3.887 | 122 | 84795 | 9.66 ug/ml | 100 |
| 32) 2,4-Dichlorophenol | 3.975 | 162 | 209395 | 20.13 ug/ml | 100 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 227249 | 20.61 ug/ml | 100 |

Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231825.D
Acq On : 23 Sep 2018 09:47 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 24 15:16:27 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chlorophenol | 4.028 | 128 | 266652 | 22.07 ug/ml | 100 |
| 35) Naphthalene | 4.087 | 128 | 729647 | 22.52 ug/ml | 100 |
| 36) 4-Chloroaniline | 4.110 | 127 | 315619 | 20.71 ug/ml | 100 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 209777 | 19.37 ug/ml | 100 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 129605 | 15.98 ug/ml | 100 |
| 39) Caprolactam | 4.328 | 55 | 74238 | 7.93 ug/ml | 100 |
| 40) 4-Chloro-3-methylphenol | 4.393 | 107 | 204713 | 16.78 ug/ml | 100 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 520101 | 19.28 ug/ml | 100 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 496954 | 19.55 ug/ml | 100 |
| 43) 1,2,4,5-Tetrachloroben... | 4.616 | 216 | 254708 | 15.59 ug/ml | 100 |
| 44) 1,1-Biphenyl | 4.799 | 154 | 634736 | 18.09 ug/ml | 100 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.346 | 232 | 142648 | 12.50 ug/ml | 100 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.375 | 232 | 160118 | 12.80 ug/ml | 100 |
| 47) 1,4-Dinitrobenzene | 4.957 | 168 | 69268 | 11.76 ug/ml | 99 |
| 48) 1,3-Dinitrobenzene | 5.004 | 168 | 93253 | 14.53 ug/ml | 100 |
| 49) 1,2-Dinitrobenzene | 5.063 | 168 | 67903 | 15.17 ug/ml | 100 |
| 51) Hexachlorocyclopentadiene | 4.604 | 237 | 140718 | 16.66 ug/ml | 100 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 158116 | 19.05 ug/ml | 100 |
| 53) 2,4,5-Trichlorophenol | 4.704 | 196 | 160533 | 18.54 ug/ml | 100 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 486477 | 23.56 ug/ml | 100 |
| 56) 2-Nitroaniline | 4.875 | 65 | 97877 | 7.53 ug/ml | 100 |
| 57) Dimethylphthalate | 4.981 | 163 | 573250 | 17.51 ug/ml | 100 |
| 58) Acenaphthylene | 5.081 | 152 | 803537 | 24.72 ug/ml | 100 |
| 59) 2,6-Dinitrotoluene | 5.022 | 165 | 133411 | 20.28 ug/ml | 91 |
| 60) 3-Nitroaniline | 5.134 | 138 | 145033 | 20.79 ug/ml | 100 |
| 61) Acenaphthene | 5.193 | 154 | 499904 | 19.31 ug/ml | 100 |
| 62) 2,4-Dinitrophenol | 5.199 | 184 | 40859 | 7.69 ug/ml | 100 |
| 63) Dibenzofuran | 5.298 | 168 | 730946 | 20.80 ug/ml | 100 |
| 64) 4-Nitrophenol | 5.222 | 65 | 67830 | 6.22 ug/ml | 99 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 174246 | 17.08 ug/ml | 91 |
| 66) Diethylphthalate | 5.428 | 149 | 564006 | 15.45 ug/ml | 100 |
| 67) Fluorene | 5.522 | 166 | 591678 | 19.92 ug/ml | 100 |
| 68) 4-Chlorophenyl phenyl | 5.510 | 204 | 296938 | 16.09 ug/ml | 100 |
| 69) 4-Nitroaniline | 5.528 | 138 | 160126 | 16.68 ug/ml | 100 |
| 70) Atrazine | 5.928 | 200 | 181147 | 12.42 ug/ml | 100 |
| 72) 4,6-Dinitro-2-methylph | 5.540 | 198 | 70103 | 12.99 ug/ml | 100 |
| 73) N-Nitrosodiphenylamine | 5.587 | 169 | 534758 | 23.89 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.616 | 77 | 487802 | 11.27 ug/ml | 100 |
| 76) 4-Bromophenyl phenyl e | 5.834 | 248 | 190084 | 17.39 ug/ml | 100 |
| 77) Hexachlorobenzene | 5.881 | 284 | 227804 | 17.03 ug/ml | 100 |
| 78) Pentachlorophenol | 6.004 | 266 | 117335 | 16.04 ug/ml | 100 |
| 79) Phenanthrene | 6.157 | 178 | 909718 | 22.63 ug/ml | 100 |
| 80) Anthracene | 6.193 | 178 | 934395 | 22.22 ug/ml | 100 |
| 81) Carbazole | 6.298 | 167 | 882609 | 23.15 ug/ml | 100 |
| 82) Di-n-butylphthalate | 6.528 | 149 | 958928 | 19.54 ug/ml | 100 |
| 83) Fluoranthene | 7.063 | 202 | 1027734 | 18.47 ug/ml | 100 |
| 85) 3,3-Dimethylbenzidine | 7.940 | 212 | 446919 | 14.51 ug/ml | 100 |
| 86) Benzidine | 7.169 | 184 | 407628 | 18.96 ug/ml | 100 |
| 87) Pyrene | 7.275 | 202 | 1084647 | 30.92 ug/ml | 100 |
| 89) Butylbenzylphthalate | 7.957 | 149 | 442260 | 23.80 ug/ml | 100 |
| 90) Benzo[a]anthracene | 8.710 | 228 | 1034243 | 22.00 ug/ml | 100 |

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231825.D
Acq On : 23 Sep 2018 09:47 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 24 15:16:27 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

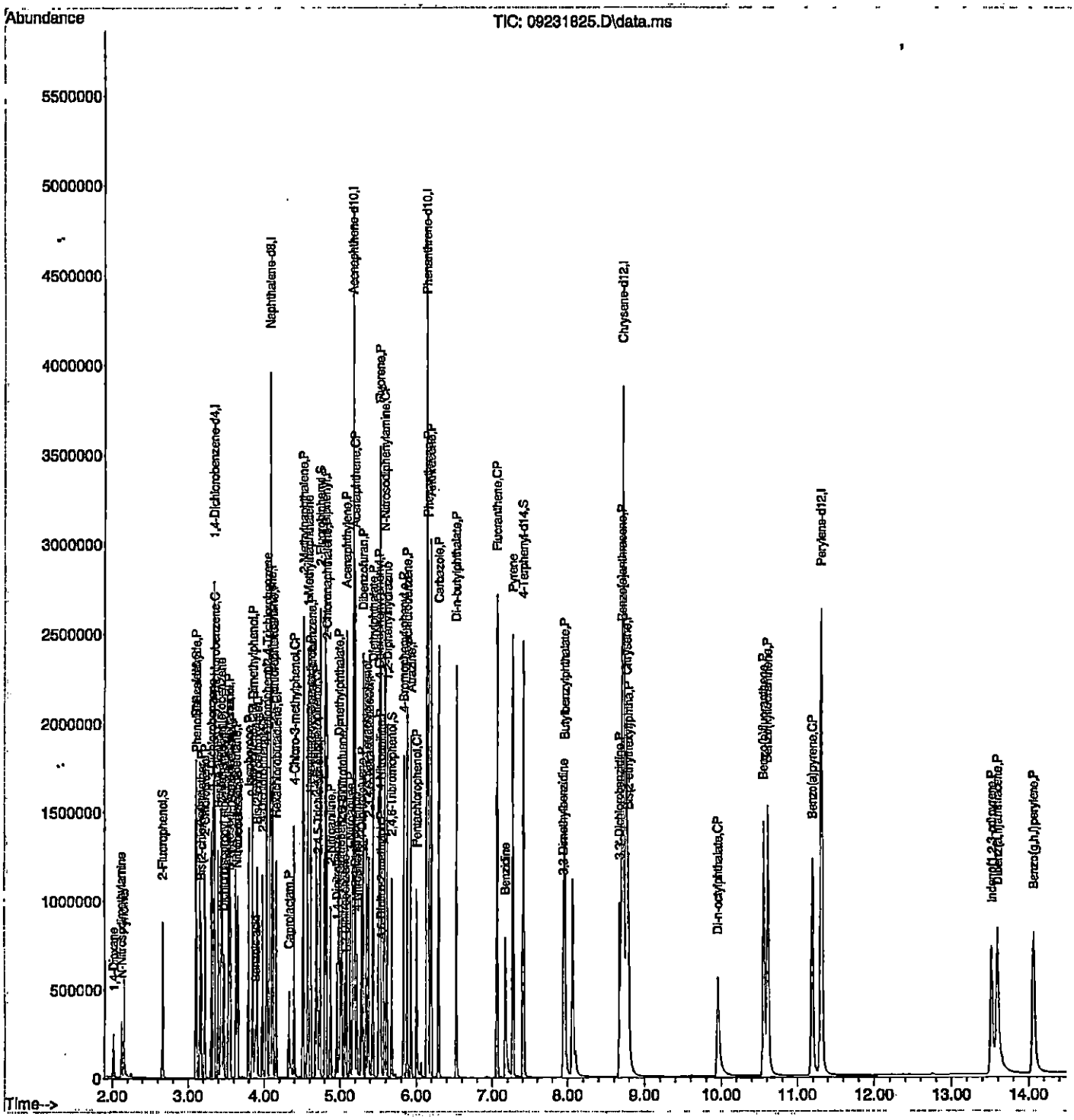
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) 3,3'-Dichlorobenzidine | 8.675 | 252 | 346642 | 15.13 ug/ml | 100 |
| 92) Chrysene | 8.769 | 228 | 1039969 | 20.43 ug/ml | 100 |
| 93) Bis(2-ethylhexyl)phtha | 8.792 | 149 | 553911 | 21.28 ug/ml | 100 |
| 95) Di-n-octylphthalate | 9.957 | 149 | 678207 | 22.49 ug/ml | 97 |
| 96) Benzo(b)fluoranthene | 10.557 | 252 | 1009577 | 20.93 ug/ml | 100 |
| 97) Benzo(k)fluoranthene | 10.610 | 252 | 1053437 | 21.20 ug/ml | 100 |
| 98) Benzo(a)pyrene | 11.192 | 252 | 952958 | 20.13 ug/ml | 100 |
| 99) Indeno(1,2,3-cd)pyrene | 13.522 | 276 | 675447 | 13.89 ug/ml | 100 |
| 100) Dibenz(a,h)anthracene | 13.598 | 278 | 758421 | 13.75 ug/ml | 100 |
| 101) Benzo(g,h,i)perylene | 14.069 | 276 | 787965 | 16.39 ug/ml | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231825.D
Acq On : 23 Sep 2018 09:47 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 24 15:16:27 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231826.D
Acq On : 23 Sep 2018 10:07 pm
Operator : RM
Sample : 40 ug/mL BNA
Misc : 300-0390G
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 24 15:16:30 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 622990 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1389764 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 802235 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.146 | 188 | 1384831 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.728 | 240 | 1213887 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.304 | 264 | 1158236 | 40.00 | ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.663 | 112 | 453036 | 43.83 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 87.66%# | | | |
| 7) Phenol-d6 | 3.099 | 99 | 529866 | 36.11 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 72.22%# | | | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 424890m | 23.22 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 46.44% | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 1114912 | 41.65 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 83.30%# | | | |
| 75) 2,4,6-Tribromophenol | 5.681 | 330 | 224175 | 29.46 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 58.92% | | | |
| 88) 4-Terphenyl-d14 | 7.416 | 244 | 1297795 | 48.68 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 97.36% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.016 | 88 | 172572 | 28.68 | ug/ml | 99 |
| 3) Pyridine | 2.146 | 79 | 445446 | 28.83 | ug/ml | 99 |
| 4) N-Nitrosodimethylamine | 2.116 | 42 | 117019 | 3.90 | ug/ml | 99 |
| 6) Benzaldehyde | 3.099 | 77 | 251302 | 27.35 | ug/ml | 97 |
| 8) Phenol | 3.110 | 94 | 555288 | 35.08 | ug/ml | 99 |
| 9) Aniline | 3.152 | 93 | 728726 | 35.90 | ug/ml | 99 |
| 10) Bis(2-chloroethyl)ether | 3.175 | 93 | 451358 | 47.30 | ug/ml | 97 |
| 11) 2-Chlorophenol | 3.216 | 128 | 516140 | 42.32 | ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.305 | 146 | 573883 | 40.62 | ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.340 | 146 | 572779 | 40.77 | ug/ml | 100 |
| 14) Benzyl alcohol | 3.393 | 108 | 319098 | 38.80 | ug/ml | 100 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 549247 | 39.92 | ug/ml | 100 |
| 16) 2-Methylphenol | 3.446 | 107 | 389428 | 32.39 | ug/ml | 100 |
| 17) Dichloroisopropyl ether | 3.469 | 45 | 377763 | 18.22 | ug/ml | 97 |
| 18) 3-Methylphenol | 3.528 | 107 | 501739 | 32.15 | ug/ml# | 86 |
| 19) 4-Methylphenol | 3.528 | 107 | 501739 | 32.15 | ug/ml# | 86 |
| 20) 3&4-Methylphenol | 3.528 | 107 | 501739 | 32.15 | ug/ml# | 86 |
| 21) Acetophenone | 3.552 | 105 | 628887 | 26.78 | ug/ml# | 98 |
| 22) N-Nitrosodi-n-propylamine | 3.546 | 70 | 276655 | 19.16 | ug/ml | 98 |
| 23) Hexachloroethane | 3.622 | 117 | 202916 | 25.78 | ug/ml | 97 |
| 26) Nitrobenzene | 3.652 | 77 | 419521 | 21.90 | ug/ml | 98 |
| 27) Isophorone | 3.799 | 82 | 857956 | 28.88 | ug/ml | 99 |
| 28) 2-Nitrophenol | 3.840 | 139 | 249740 | 36.84 | ug/ml | 97 |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 466083 | 29.22 | ug/ml | 99 |
| 30) Bis(2-chloroethoxy)met | 3.904 | 93 | 540583 | 44.98 | ug/ml | 99 |
| 31) Benzoic acid | 3.904 | 122 | 216854 | 23.34 | ug/ml | 99 |
| 32) 2,4-Dichlorophenol | 3.981 | 162 | 438400 | 37.99 | ug/ml | 100 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 471211 | 40.37 | ug/ml | 100 |

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231826.D
Acq On : 23 Sep 2018 10:07 pm
Operator : RM
Sample : 40 ug/mL BNA
Misc : 300-0390G
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 24 15:16:30 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chlorophenol | 4.028 | 128 | 518584 | 40.54 ug/ml | 99 |
| 35) Naphthalene | 4.087 | 128 | 1449513 | 42.26 ug/ml | 100 |
| 36) 4-Chloroaniline | 4.110 | 127 | 608352 | 37.72 ug/ml | 100 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 422648 | 34.57 ug/ml | 99 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 280524 | 32.67 ug/ml | 99 |
| 39) Caprolactam | 4.340 | 55 | 152513m | 15.40 ug/ml | |
| 40) 4-Chloro-3-methylphenol | 4.399 | 107 | 403351 | 30.36 ug/ml | 100 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 1027018 | 35.96 ug/ml | 100 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 969361 | 36.02 ug/ml | 100 |
| 43) 1,2,4,5-Tetrachloroben... | 4.616 | 216 | 508898 | 29.42 ug/ml | 100 |
| 44) 1,1-Biphenyl | 4.799 | 154 | 1223917 | 32.96 ug/ml | 99 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.346 | 232 | 286464 | 22.91 ug/ml | 99 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.375 | 232 | 299458 | 22.62 ug/ml | 99 |
| 47) 1,4-Dinitrobenzene | 4.957 | 168 | 148953 | 23.77 ug/ml | 96 |
| 48) 1,3-Dinitrobenzene | 5.010 | 168 | 183330 | 26.98 ug/ml | 98 |
| 49) 1,2-Dinitrobenzene | 5.063 | 168 | 132937m | 28.02 ug/ml | |
| 51) Hexachlorocyclopentadiene | 4.604 | 237 | 318603 | 35.29 ug/ml | 100 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 313384 | 38.06 ug/ml | 100 |
| 53) 2,4,5-Trichlorophenol | 4.704 | 196 | 329199 | 38.32 ug/ml | 99 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 944277 | 46.10 ug/ml | 100 |
| 56) 2-Nitroaniline | 4.875 | 65 | 190356 | 14.77 ug/ml | 97 |
| 57) Dimethylphthalate | 4.987 | 163 | 1067339 | 32.87 ug/ml | 100 |
| 58) Acenaphthylene | 5.081 | 152 | 1508903 | 46.79 ug/ml | 100 |
| 59) 2,6-Dinitrotoluene | 5.028 | 165 | 255272 | 37.19 ug/ml | 91 |
| 60) 3-Nitroaniline | 5.134 | 138 | 271233 | 37.81 ug/ml | 97 |
| 61) Acenaphthene | 5.193 | 154 | 921803 | 33.92 ug/ml | 100 |
| 62) 2,4-Dinitrophenol | 5.199 | 184 | 97001 | 17.53 ug/ml | 96 |
| 63) Dibenzofuran | 5.299 | 168 | 1376569 | 39.49 ug/ml | 100 |
| 64) 4-Nitrophenol | 5.222 | 65 | 122944 | 11.08 ug/ml | 98 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 324922 | 31.08 ug/ml | 85 |
| 66) Diethylphthalate | 5.434 | 149 | 1023848 | 28.27 ug/ml | 99 |
| 67) Fluorene | 5.522 | 166 | 1051960 | 33.27 ug/ml | 100 |
| 68) 4-Chlorophenyl phenyl | 5.516 | 204 | 557256 | 30.44 ug/ml | 100 |
| 69) 4-Nitroaniline | 5.528 | 138 | 274727 | 28.49 ug/ml | 99 |
| 70) Atrazine | 5.934 | 200 | 316581 | 21.87 ug/ml | 99 |
| 72) 4,6-Dinitro-2-methylph | 5.546 | 198 | 144179 | 28.10 ug/ml | 98 |
| 73) N-Nitrosodiphenylamine | 5.587 | 169 | 956643 | 47.69 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.616 | 77 | 875829 | 22.58 ug/ml | 98 |
| 76) 4-Bromophenyl phenyl e | 5.834 | 248 | 355740 | 36.32 ug/ml | 98 |
| 77) Hexachlorobenzene | 5.881 | 284 | 415181 | 34.63 ug/ml | 99 |
| 78) Pentachlorophenol | 6.010 | 266 | 219319 | 30.92 ug/ml | 100 |
| 79) Phenanthrene | 6.163 | 178 | 1526781 | 39.37 ug/ml | 99 |
| 80) Anthracene | 6.198 | 178 | 1581667 | 38.99 ug/ml | 100 |
| 81) Carbazole | 6.298 | 167 | 1424268 | 41.69 ug/ml | 100 |
| 82) Di-n-butylphthalate | 6.528 | 149 | 1640224 | 34.74 ug/ml | 100 |
| 83) Fluoranthene | 7.063 | 202 | 1593849 | 31.96 ug/ml | 100 |
| 85) 3,3-Dimethylbenzidine | 7.945 | 212 | 749690 | 36.35 ug/ml | 100 |
| 86) Benzidine | 7.175 | 184 | 734137 | 51.01 ug/ml | 99 |
| 87) Pyrene | 7.275 | 202 | 1620036 | 68.98 ug/ml | 100 |
| 89) Butylbenzylphthalate | 7.963 | 149 | 652618 | 46.30 ug/ml | 99 |
| 90) Benzo[a]anthracene | 8.710 | 228 | 1354953 | 41.26 ug/ml | 100 |

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231826.D
Acq On : 23 Sep 2018 10:07 pm
Operator : RM
Sample : 40 ug/mL BNA
Misc : 300-0390G
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 24 15:16:30 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

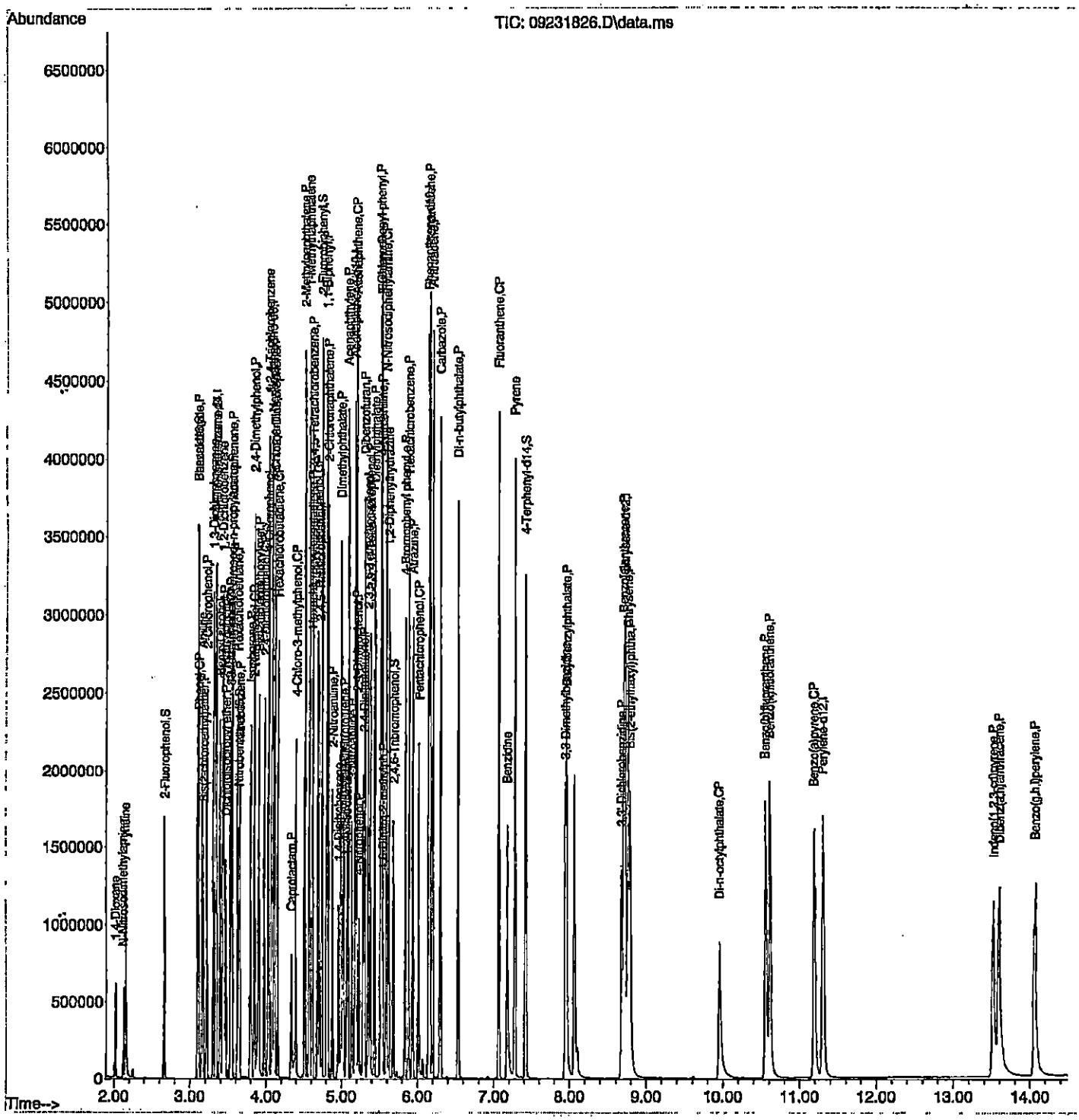
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) 3,3'-Dichlorobenzidine | 8.681 | 252 | 484653 | 31.59 ug/ml | 99 |
| 92) Chrysene | 8.769 | 228 | 1355910 | 39.79 ug/ml | 100 |
| 93) Bis(2-ethylhexyl)phtha | 8.792 | 149 | 816417 | 41.29 ug/ml | 100 |
| 95) Di-n-octylphthalate | 9.957 | 149 | 1054178m | 48.22 ug/ml | |
| 96) Benzo(b)fluoranthene | 10.557 | 252 | 1270853 | 41.93 ug/ml | 99 |
| 97) Benzo(k)fluoranthene | 10.616 | 252 | 1347042 | 43.14 ug/ml | 99 |
| 98) Benzo(a)pyrene | 11.192 | 252 | 1239569 | 41.66 ug/ml | 100 |
| 99) Indeno(1,2,3-cd)pyrene | 13.528 | 276 | 1055445 | 34.52 ug/ml | 99 |
| 100) Dibenz(a,h)anthracene | 13.604 | 278 | 1117449 | 32.23 ug/ml | 100 |
| 101) Benzo(g,h,i)perylene | 14.069 | 276 | 1205541 | 39.89 ug/ml | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231826.D
Acq On : 23 Sep 2018 10:07 pm
Operator : RM
Sample : 40 ug/mL BNA
Misc : 300-0390G
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 24 15:16:30 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231827.D
Acq On : 23 Sep 2018 10:26 pm
Operator : RM
Sample : 50 ug/mL BNA
Misc : 300-0390H
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 24 15:16:33 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 622071 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1318196 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 729611 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.145 | 188 | 1197811 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.728 | 240 | 1113742 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.304 | 264 | 1135589 | 40.00 | ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.663 | 112 | 554382 | 53.72 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 107.44%# | | | |
| 7) Phenol-d6 | 3.104 | 99 | 624433 | 42.18 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 84.36%# | | | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 496327m | 28.59 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 57.18% | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 1258990 | 51.71 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 103.42%# | | | |
| 75) 2,4,6-Tribromophenol | 5.681 | 330 | 247568 | 37.61 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 75.22% | | | |
| 88) 4-Terphenyl-d14 | 7.410 | 244 | 1395357 | 57.05 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 114.10%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.016 | 88 | 213209 | 36.62 | ug/ml | 98 |
| 3) Pyridine | 2.146 | 79 | 542910 | 35.35 | ug/ml | 99 |
| 4) N-Nitrosodimethylamine | 2.122 | 42 | 142646 | 4.76 | ug/ml | 99 |
| 6) Benzaldehyde | 3.099 | 77 | 266935 | 29.09 | ug/ml | 98 |
| 8) Phenol | 3.110 | 94 | 651978 | 41.14 | ug/ml | 99 |
| 9) Aniline | 3.151 | 93 | 857247 | 42.22 | ug/ml | 99 |
| 10) Bis(2-chloroethyl)ether | 3.175 | 93 | 536899 | 57.16 | ug/ml | 96 |
| 11) 2-Chlorophenol | 3.216 | 128 | 621636 | 51.04 | ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 685085 | 48.56 | ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.340 | 146 | 689796 | 49.65 | ug/ml | 99 |
| 14) Benzyl alcohol | 3.399 | 108 | 376417 | 45.84 | ug/ml | 99 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 657651 | 47.87 | ug/ml | 99 |
| 16) 2-Methylphenol | 3.446 | 107 | 453973 | 37.81 | ug/ml | 99 |
| 17) Dichloroisopropyl ether | 3.469 | 45 | 435303 | 21.02 | ug/ml | 95 |
| 18) 3-Methylphenol | 3.534 | 107 | 587901 | 37.72 | ug/ml# | 65 |
| 19) 4-Methylphenol | 3.534 | 107 | 587901 | 37.72 | ug/ml# | 65 |
| 20) 3&4-Methylphenol | 3.534 | 107 | 587901 | 37.72 | ug/ml# | 65 |
| 21) Acetophenone | 3.551 | 105 | 717789 | 30.62 | ug/ml# | 98 |
| 22) N-Nitrosodi-n-propylamine | 3.546 | 70 | 310180 | 21.41 | ug/ml | 97 |
| 23) Hexachloroethane | 3.622 | 117 | 245044 | 31.18 | ug/ml | 96 |
| 26) Nitrobenzene | 3.651 | 77 | 491696 | 27.07 | ug/ml | 98 |
| 27) Isophorone | 3.798 | 82 | 979146 | 34.75 | ug/ml | 99 |
| 28) 2-Nitrophenol | 3.840 | 139 | 304787 | 46.90 | ug/ml | 96 |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 533085 | 34.73 | ug/ml | 99 |
| 30) Bis(2-chloroethoxy)met | 3.910 | 93 | 618538 | 54.26 | ug/ml | 99 |
| 31) Benzoic acid | 3.910 | 122 | 267178 | 30.31 | ug/ml | 98 |
| 32) 2,4-Dichlorophenol | 3.981 | 162 | 513243 | 45.97 | ug/ml | 100 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 551955 | 49.86 | ug/ml | 99 |

Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231827.D
Acq On : 23 Sep 2018 10:26 pm
Operator : RM
Sample : 50 ug/mL BNA
Misc : 300-0390H
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 24 15:16:33 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chlorophenol | 4.028 | 128 | 591037 | 48.71 ug/ml | 99 |
| 35) Naphthalene | 4.087 | 128 | 1682659 | 51.72 ug/ml | 100 |
| 36) 4-Chloroaniline | 4.110 | 127 | 692354 | 45.25 ug/ml | 100 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 488060 | 40.99 ug/ml | 99 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 331590 | 40.71 ug/ml | 100 |
| 39) Caprolactam | 4.340 | 55 | 174006m | 18.52 ug/ml | |
| 40) 4-Chloro-3-methylphenol | 4.398 | 107 | 462902 | 36.31 ug/ml | 100 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 1179180 | 43.52 ug/ml | 100 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 1102310 | 43.18 ug/ml | 100 |
| 43) 1,2,4,5-Tetrachloroben... | 4.616 | 216 | 574584 | 35.02 ug/ml | 100 |
| 44) 1,1-Biphenyl | 4.798 | 154 | 1376964 | 39.09 ug/ml | 99 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.345 | 232 | 379573m | 31.24 ug/ml | |
| 46) 2,3,4,6-Tetrachlorophenol | 5.375 | 232 | 351476m | 27.99 ug/ml | |
| 47) 1,4-Dinitrobenzene | 4.963 | 168 | 189893m | 31.83 ug/ml | |
| 48) 1,3-Dinitrobenzene | 5.010 | 168 | 224748m | 34.87 ug/ml | |
| 49) 1,2-Dinitrobenzene | 5.063 | 168 | 150733m | 33.52 ug/ml | |
| 51) Hexachlorocyclopentadiene | 4.610 | 237 | 379612 | 44.70 ug/ml | 99 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 356590 | 47.62 ug/ml | 100 |
| 53) 2,4,5-Trichlorophenol | 4.704 | 196 | 375359 | 48.05 ug/ml | 100 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 1071634 | 57.53 ug/ml | 100 |
| 56) 2-Nitroaniline | 4.875 | 65 | 212812 | 18.15 ug/ml | 96 |
| 57) Dimethylphthalate | 4.987 | 163 | 1167815 | 39.54 ug/ml | 100 |
| 58) Acenaphthylene | 5.081 | 152 | 1695429 | 57.80 ug/ml | 99 |
| 59) 2,6-Dinitrotoluene | 5.028 | 165 | 281900 | 44.24 ug/ml | 91 |
| 60) 3-Nitroaniline | 5.140 | 138 | 300772 | 45.43 ug/ml | 97 |
| 61) Acenaphthene | 5.193 | 154 | 1031119 | 40.69 ug/ml | 100 |
| 62) 2,4-Dinitrophenol | 5.204 | 184 | 124842m | 24.43 ug/ml | |
| 63) Dibenzofuran | 5.304 | 168 | 1523274 | 48.05 ug/ml | 99 |
| 64) 4-Nitrophenol | 5.228 | 65 | 143228 | 14.01 ug/ml | 95 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 354483 | 36.86 ug/ml | 85 |
| 66) Diethylphthalate | 5.434 | 149 | 1106411 | 33.59 ug/ml | 99 |
| 67) Fluorene | 5.522 | 166 | 1153560 | 38.97 ug/ml | 99 |
| 68) 4-Chlorophenyl phenyl | 5.516 | 204 | 623889 | 37.48 ug/ml | 99 |
| 69) 4-Nitroaniline | 5.528 | 138 | 330927m | 37.44 ug/ml | |
| 70) Atrazine | 5.934 | 200 | 380026m | 28.87 ug/ml | |
| 72) 4,6-Dinitro-2-methylph | 5.545 | 198 | 162422 | 35.72 ug/ml | 98 |
| 73) N-Nitrosodiphenylamine | 5.593 | 169 | 1042404 | 60.08 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.616 | 77 | 940276 | 28.02 ug/ml | 97 |
| 76) 4-Bromophenyl phenyl e | 5.834 | 248 | 386919 | 45.68 ug/ml | 99 |
| 77) Hexachlorobenzene | 5.881 | 284 | 450742 | 43.47 ug/ml | 99 |
| 78) Pentachlorophenol | 6.010 | 266 | 244602 | 38.40 ug/ml | 99 |
| 79) Phenanthrene | 6.163 | 178 | 1655288 | 47.65 ug/ml | 100 |
| 80) Anthracene | 6.192 | 178 | 1686445 | 46.58 ug/ml | 100 |
| 81) Carbazole | 6.298 | 167 | 1515833 | 51.30 ug/ml | 100 |
| 82) Di-n-butylphthalate | 6.528 | 149 | 1724416 | 41.08 ug/ml | 100 |
| 83) Fluoranthene | 7.063 | 202 | 1707414 | 39.58 ug/ml | 99 |
| 85) 3,3-Dimethylbenzidine | 7.939 | 212 | 869678 | 45.96 ug/ml | 100 |
| 86) Benzidine | 7.169 | 184 | 832974 | 63.08 ug/ml | 99 |
| 87) Pyrene | 7.275 | 202 | 1752802 | 81.34 ug/ml | 99 |
| 89) Butylbenzylphthalate | 7.957 | 149 | 714878 | 53.33 ug/ml | 99 |
| 90) Benzo[a]anthracene | 8.710 | 228 | 1571125 | 51.02 ug/ml | 100 |

Data Path : E:\8S092318\
Data File : 09231827.D
Acq On : 23 Sep 2018 10:26 pm
Operator : RM
Sample" : 50 ug/mL BNA
Misc : 300-0390H
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 24 15:16:33 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

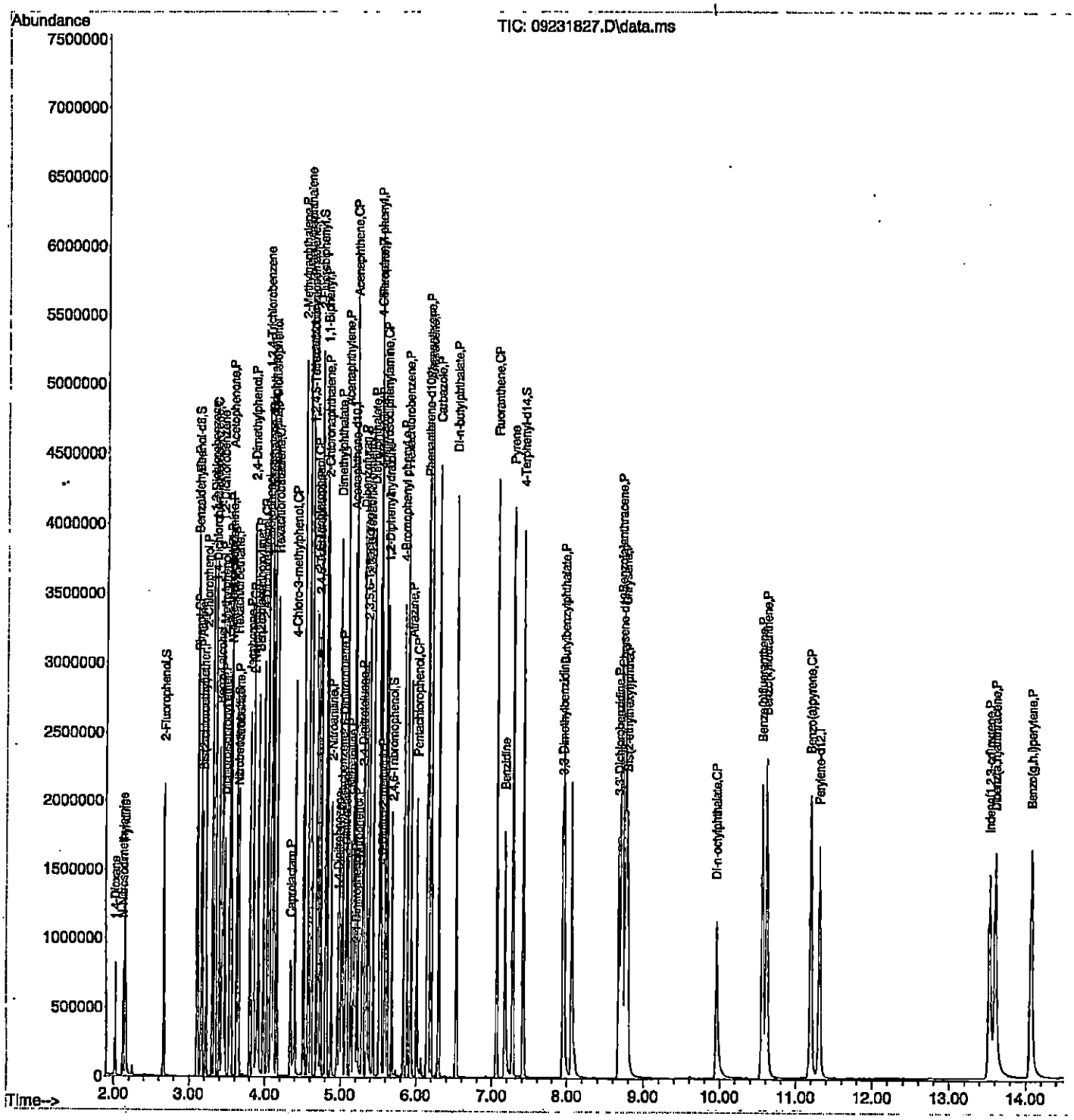
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) 3,3'-Dichlorobenzidine | 8.675 | 252 | 583143 | 41.43 ug/ml | 100 |
| 92) Chrysene | 8.763 | 228 | 1551142 | 49.61 ug/ml | 100 |
| 93) Bis(2-ethylhexyl)phtha | 8.792 | 149 | 902685 | 47.90 ug/ml | 100 |
| 95) Di-n-octylphthalate | 9.957 | 149 | 1411041m | 61.58 ug/ml | |
| 96) Benzo(b)fluoranthene | 10.557 | 252 | 1569200 | 52.80 ug/ml | 100 |
| 97) Benzo(k)fluoranthene | 10.616 | 252 | 1638744 | 53.53 ug/ml | 99 |
| 98) Benzo(a)pyrene | 11.192 | 252 | 1550737 | 53.16 ug/ml | 100 |
| 99) Indeno(1,2,3-cd)pyrene | 13.527 | 276 | 1365764 | 45.56 ug/ml | 100 |
| 100) Dibenz(a,h)anthracene | 13.604 | 278 | 1442970 | 42.44 ug/ml | 100 |
| 101) Benzo(g,h,i)perylene | 14.074 | 276 | 1548942 | 52.28 ug/ml | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231827.D
Acq On : 23 Sep 2018 10:26 pm
Operator : RM
Sample : 50 ug/mL BNA
Misc : 300-0390H
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 24 15:16:33 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231828.D
Acq On : 23 Sep 2018 10:46 pm
Operator : RM
Sample : 60 ug/mL BNA
Misc : 300-0390I
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 15:16:36 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 664616 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1475639 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 907583 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.140 | 188 | 1701276 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.728 | 240 | 1752544 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.310 | 264 | 1503602 | 40.00 | ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.663 | 112 | 732329 | 66.42 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 132.84%# | | | |
| 7) Phenol-d6 | 3.104 | 99 | 828412 | 51.54 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 103.08%# | | | |
| 25) Nitrobenzene-d5 | 3.646 | 82 | 696540m | 35.85 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 71.70% | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 1807008 | 59.67 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 119.34%# | | | |
| 75) 2,4,6-Tribromophenol | 5.681 | 330 | 448638 | 47.99 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 95.98%# | | | |
| 88) 4-Terphenyl-d14 | 7.410 | 244 | 2799453 | 72.74 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 145.48%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.016 | 88 | 255541 | 42.00 | ug/ml | 98 |
| 3) Pyridine | 2.146 | 79 | 676506 | 41.45 | ug/ml | 99 |
| 4) N-Nitrosodimethylamine | 2.122 | 42 | 179169 | 5.60 | ug/ml | 98 |
| 6) Benzaldehyde | 3.099 | 77 | 347847 | 35.48 | ug/ml | 97 |
| 8) Phenol | 3.110 | 94 | 818126 | 48.20 | ug/ml | 99 |
| 9) Aniline | 3.151 | 93 | 1081360 | 49.73 | ug/ml | 99 |
| 10) Bis(2-chloroethyl)ether | 3.175 | 93 | 676535 | 68.49 | ug/ml | 95 |
| 11) 2-Chlorophenol | 3.216 | 128 | 782903 | 60.17 | ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 839274 | 55.68 | ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.346 | 146 | 846110 | 57.47 | ug/ml | 99 |
| 14) Benzyl alcohol | 3.398 | 108 | 500341 | 57.03 | ug/ml | 98 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 814096 | 55.47 | ug/ml | 99 |
| 16) 2-Methylphenol | 3.446 | 107 | 586430 | 45.71 | ug/ml | 100 |
| 17) Dichloroisopropyl ether | 3.469 | 45 | 537964 | 24.32 | ug/ml | 93 |
| 18) 3-Methylphenol | 3.534 | 107 | 778992m | 46.79 | ug/ml | |
| 19) 4-Methylphenol | 3.534 | 107 | 778015m | 46.73 | ug/ml | |
| 20) 3&4-Methylphenol | 3.534 | 107 | 780158m | 46.86 | ug/ml | |
| 21) Acetophenone | 3.551 | 105 | 903548 | 36.07 | ug/ml# | 98 |
| 22) N-Nitrosodi-n-propylamine | 3.551 | 70 | 383142 | 24.58 | ug/ml | 97 |
| 23) Hexachloroethane | 3.622 | 117 | 300665 | 35.81 | ug/ml | 95 |
| 26) Nitrobenzene | 3.657 | 77 | 633312 | 31.14 | ug/ml | 97 |
| 27) Isophorone | 3.804 | 82 | 1358259 | 43.06 | ug/ml | 98 |
| 28) 2-Nitrophenol | 3.840 | 139 | 407359 | 55.53 | ug/ml | 95 |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 710443 | 40.70 | ug/ml | 99 |
| 30) Bis(2-chloroethoxy)met | 3.910 | 93 | 804598 | 63.05 | ug/ml | 98 |
| 31) Benzoic acid | 3.922 | 122 | 416412 | 42.20 | ug/ml | 97 |
| 32) 2,4-Dichlorophenol | 3.981 | 162 | 688616 | 54.04 | ug/ml | 99 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 694117 | 56.01 | ug/ml | 99 |

Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231828.D
Acq On : 23 Sep 2018 10:46 pm
Operator : RM
Sample : 60 ug/mL BNA
Misc : 300-0390I
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 15:16:36 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chlorophenol | 4.028 | 128 | 789185 | 58.11 ug/ml | 99 |
| 35) Naphthalene | 4.093 | 128 | 2259017 | 62.03 ug/ml | 99 |
| 36) 4-Chloroaniline | 4.110 | 127 | 916218 | 53.50 ug/ml | 100 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 645961 | 47.25 ug/ml | 99 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 424467 | 46.55 ug/ml | 99 |
| 39) Caprolactam | 4.351 | 55 | 263980m | 25.10 ug/ml | |
| 40) 4-Chloro-3-methylphenol | 4.398 | 107 | 658144 | 45.32 ug/ml | 99 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 1550424 | 51.12 ug/ml | 99 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 1464698 | 51.26 ug/ml | 99 |
| 43) 1,2,4,5-Tetrachloroben... | 4.616 | 216 | 775404 | 42.22 ug/ml | 99 |
| 44) 1,1-Biphenyl | 4.804 | 154 | 1867195 | 47.35 ug/ml | 99 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.345 | 232 | 511103 | 37.00 ug/ml | 100 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.375 | 232 | 533778 | 37.97 ug/ml | 99 |
| 47) 1,4-Dinitrobenzene | 4.963 | 168 | 285617 | 42.56 ug/ml | 93 |
| 48) 1,3-Dinitrobenzene | 5.010 | 168 | 341266 | 47.30 ug/ml | 92 |
| 49) 1,2-Dinitrobenzene | 5.069 | 168 | 231411 | 46.09 ug/ml | 94 |
| 51) Hexachlorocyclopentadiene | 4.610 | 237 | 511651 | 47.90 ug/ml | 99 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 520504 | 55.88 ug/ml | 100 |
| 53) 2,4,5-Trichlorophenol | 4.704 | 196 | 563858 | 58.02 ug/ml | 100 |
| 55) 2-Chloronaphthalene | 4.822 | 162 | 1483962 | 64.04 ug/ml | 100 |
| 56) 2-Nitroaniline | 4.875 | 65 | 327651 | 22.47 ug/ml | 93 |
| 57) Dimethylphthalate | 4.993 | 163 | 1790770 | 48.74 ug/ml | 99 |
| 58) Acenaphthylene | 5.087 | 152 | 2386546 | 65.41 ug/ml | 99 |
| 59) 2,6-Dinitrotoluene | 5.028 | 165 | 446940 | 54.72 ug/ml | 91 |
| 60) 3-Nitroaniline | 5.140 | 138 | 492202 | 58.35 ug/ml | 95 |
| 61) Acenaphthene | 5.193 | 154 | 1472721 | 45.85 ug/ml | 98 |
| 62) 2,4-Dinitrophenol | 5.204 | 184 | 230173m | 35.56 ug/ml | |
| 63) Dibenzofuran | 5.304 | 168 | 2208464 | 56.01 ug/ml | 99 |
| 64) 4-Nitrophenol | 5.228 | 65 | 239511 | 18.49 ug/ml | 97 |
| 65) 2,4-Dinitrotoluene | 5.287 | 165 | 596350 | 48.76 ug/ml | 89 |
| 66) Diethylphthalate | 5.434 | 149 | 1700514 | 41.50 ug/ml | 98 |
| 67) Fluorene | 5.522 | 166 | 1679880 | 44.41 ug/ml | 99 |
| 68) 4-Chlorophenyl phenyl | 5.516 | 204 | 919756 | 44.42 ug/ml | 99 |
| 69) 4-Nitroaniline | 5.534 | 138 | 521796 | 47.09 ug/ml | 98 |
| 70) Atrazine | 5.934 | 200 | 590513 | 36.06 ug/ml | 98 |
| 72) 4,6-Dinitro-2-methylph | 5.551 | 198 | 315252 | 47.19 ug/ml | 97 |
| 73) N-Nitrosodiphenylamine | 5.593 | 169 | 1574080 | 63.87 ug/ml | 99 |
| 74) 1,2-Diphenylhydrazine | 5.616 | 77 | 1394726 | 29.27 ug/ml | 94 |
| 76) 4-Bromophenyl phenyl e | 5.834 | 248 | 616231 | 51.22 ug/ml | 99 |
| 77) Hexachlorobenzene | 5.881 | 284 | 735883 | 49.96 ug/ml | 98 |
| 78) Pentachlorophenol | 6.010 | 266 | 456419 | 48.13 ug/ml | 99 |
| 79) Phenanthrene | 6.157 | 178 | 2635285 | 52.38 ug/ml | 99 |
| 80) Anthracene | 6.192 | 178 | 2685592 | 51.25 ug/ml | 99 |
| 81) Carbazole | 6.298 | 167 | 2578494 | 61.44 ug/ml | 98 |
| 82) Di-n-butylphthalate | 6.528 | 149 | 3046728 | 49.35 ug/ml | 100 |
| 83) Fluoranthene | 7.063 | 202 | 3089298 | 50.42 ug/ml | 99 |
| 85) 3,3-Dimethylbenzidine | 7.945 | 212 | 1876762 | 63.04 ug/ml | 99 |
| 86) Benzidine | 7.169 | 184 | 1798472 | 86.55 ug/ml | 98 |
| 87) Pyrene | 7.275 | 202 | 3160338 | 93.20 ug/ml | 98 |
| 89) Butylbenzylphthalate | 7.957 | 149 | 1436676 | 64.51 ug/ml | 97 |
| 90) Benzo[a]anthracene | 8.710 | 228 | 2935350 | 59.45 ug/ml | 99 |

Quantitation Report (QT Reviewed)

Data Path : E:\85092318\
Data File : 09231828.D
Acq On : 23 Sep 2018 10:46 pm
Operator : RM
Sample : 60 ug/mL BNA
Misc : 300-0390I
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 15:16:36 2018
Quant Method : D:\MassHunter\Methods\85091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration

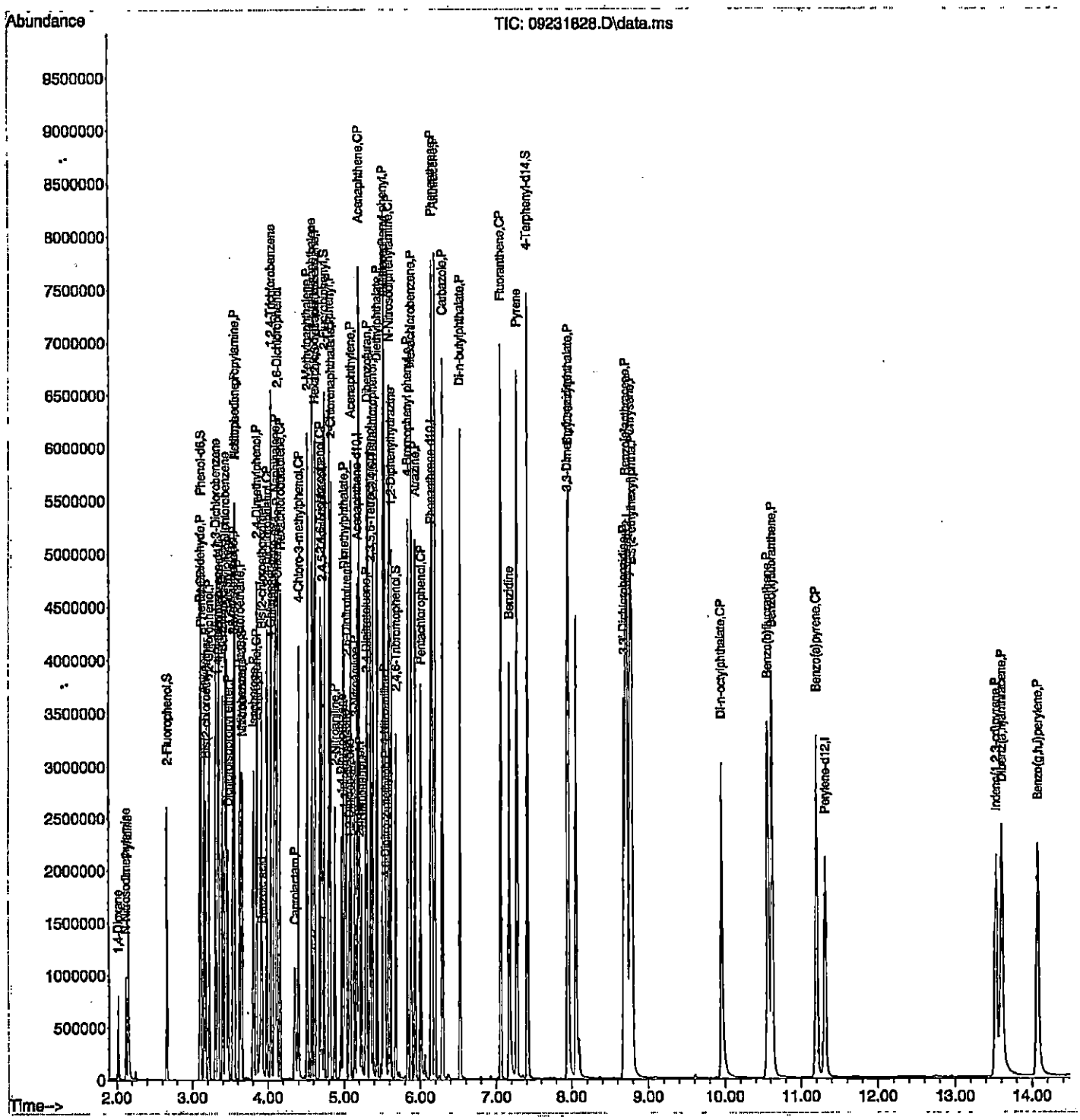
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) 3,3'-Dichlorobenzidine | 8.681 | 252 | 1192173 | 53.83 ug/ml | 99 |
| 92) Chrysene | 8.769 | 228 | 2854448 | 58.02 ug/ml | 99 |
| 93) Bis(2-ethylhexyl)phtha | 8.786 | 149 | 1889229 | 59.73 ug/ml | 98 |
| 95) Di-n-octylphthalate | 9.957 | 149 | 2907442 | 85.80 ug/ml | 96 |
| 96) Benzo(b)fluoranthene | 10.563 | 252 | 2712622 | 68.94 ug/ml | 99 |
| 97) Benzo(k)fluoranthene | 10.622 | 252 | 2683839 | 66.21 ug/ml | 100 |
| 98) Benzo(a)pyrene | 11.198 | 252 | 2497019 | 64.64 ug/ml | 99 |
| 99) Indeno(1,2,3-cd)pyrene | 13.533 | 276 | 2114812m | 53.28 ug/ml | |
| 100) Dibenz(a,h)anthracene | 13.610 | 278 | 2371935m | 52.69 ug/ml | |
| 101) Benzo(g,h,i)perylene | 14.080 | 276 | 2343895m | 59.75 ug/ml | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231828.D
Acq On : 23 Sep 2018 10:46 pm
Operator : RM
Sample : 60 ug/mL BNA
Misc : 300-0390I
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 15:16:36 2018
Quant Method : D:\MassHunter\Methods\8S091218.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:15:51 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 596969 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1441815 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.169 | 164 | 869166 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.140 | 188 | 1628294 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.722 | 240 | 1748474 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.304 | 264 | 1605544 | 40.00 | ug/ml | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 2.657 | 112 | 227512 | 21.04 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 42.08% | | | |
| 7) Phenol-d6 | 3.099 | 99 | 283188 | 21.46 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 42.92%# | | | |
| 25) Nitrobenzene-d5 | 3.640 | 82 | 223961m | 21.45 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 42.90% | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 626640 | 20.68 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 41.36% | | | |
| 75) 2,4,6-Tribromophenol | 5.675 | 330 | 131239 | 21.57 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 43.14% | | | |
| 88) 4-Terphenyl-d14 | 7.404 | 244 | 897381 | 20.69 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 41.38%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.016 | 88 | 83673 | 18.82 | ug/ml | 100 |
| 3) Pyridine | 2.146 | 79 | 217102 | 21.02 | ug/ml | 100 |
| 4) N-Nitrosodimethylamine | 2.116 | 42 | 58751 | 19.78 | ug/ml | 98 |
| 6) Benzaldehyde | 3.099 | 77 | 99121 | 17.51 | ug/ml | 99 |
| 8) Phenol | 3.104 | 94 | 291444 | 21.13 | ug/ml | 100 |
| 9) Aniline | 3.152 | 93 | 384857 | 21.16 | ug/ml | 100 |
| 10) Bis(2-chloroethyl)ether | 3.169 | 93 | 223733 | 19.59 | ug/ml | 99 |
| 11) 2-Chlorophenol | 3.216 | 128 | 262438 | 21.10 | ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 290422 | 20.03 | ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.340 | 146 | 292920 | 19.93 | ug/ml | 100 |
| 14) Benzyl alcohol | 3.393 | 108 | 164555 | 22.18 | ug/ml | 99 |
| 15) 1,2-Dichlorobenzene | 3.428 | 146 | 281184 | 20.08 | ug/ml | 100 |
| 16) 2-Methylphenol | 3.440 | 107 | 200288 | 20.91 | ug/ml | 99 |
| 17) Dichloroisopropyl ether | 3.463 | 45 | 195558 | 19.57 | ug/ml | 98 |
| 18) 3-Methylphenol | 3.528 | 107 | 260505 | 21.23 | ug/ml# | 86 |
| 19) 4-Methylphenol | 3.528 | 107 | 260505 | 21.24 | ug/ml# | 86 |
| 20) 3&4-Methylphenol | 3.528 | 107 | 260505 | 21.23 | ug/ml# | 86 |
| 21) Acetophenone | 3.551 | 105 | 349977 | 20.98 | ug/ml# | 98 |
| 22) N-Nitrosodi-n-propylamine | 3.540 | 70 | 153447 | 21.42 | ug/ml | 99 |
| 23) Hexachloroethane | 3.622 | 117 | 103340 | 20.50 | ug/ml | 98 |
| 26) Nitrobenzene | 3.651 | 77 | 222137 | 21.41 | ug/ml | 99 |
| 27) Isophorone | 3.793 | 82 | 451687 | 20.71 | ug/ml | 100 |
| 28) 2-Nitrophenol | 3.840 | 139 | 130092 | 22.18 | ug/ml | 98 |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 242187 | 21.08 | ug/ml | 99 |
| 30) Bis(2-chloroethoxy)met | 3.904 | 93 | 293461 | 20.62 | ug/ml | 99 |
| 31) Benzoic acid | 3.887 | 122 | 91466m | 21.13 | ug/ml | |
| 32) 2,4-Dichlorophenol | 3.975 | 162 | 228768 | 22.23 | ug/ml | 100 |
| 33) 1,2,4-Trichlorobenzene | 4.034 | 180 | 248855 | 20.27 | ug/ml | 100 |

Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chlorophenol | 4.028 | 128 | 284682 | 22.24 ug/ml | 99 |
| 35) Naphthalene | 4.087 | 128 | 783665 | 19.74 ug/ml# | 13 |
| 36) 4-Chloroaniline | 4.110 | 127 | 336757 | 21.25 ug/ml | 100 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 230416 | 21.72 ug/ml | 100 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 143989 | 20.33 ug/ml | 99 |
| 39) Caprolactam | 4.328 | 55 | 81450 | 21.40 ug/ml | 99 |
| 40) 4-Chloro-3-methylphenol | 4.393 | 107 | 218523 | 22.25 ug/ml | 99 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 564309 | 20.77 ug/ml | 97 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 537615 | 20.68 ug/ml | 97 |
| 43) 1,2,4,5-Tetrachloroben... | 4.616 | 216 | 275185 | 20.22 ug/ml | 100 |
| 44) 1,1-Biphenyl | 4.798 | 154 | 699992 | 20.97 ug/ml | 100 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.346 | 232 | 158652 | 21.56 ug/ml | 99 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.369 | 232 | 171589 | 21.28 ug/ml | 99 |
| 47) 1,4-Dinitrobenzene | 4.957 | 168 | 81963 | 23.40 ug/ml | 97 |
| 48) 1,3-Dinitrobenzene | 5.004 | 168 | 104143 | 22.46 ug/ml | 97 |
| 49) 1,2-Dinitrobenzene | 5.057 | 168 | 73698 | 21.50 ug/ml | 89 |
| 51) Hexachlorocyclopentadiene | 4.604 | 237 | 158121 | 20.43 ug/ml | 100 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 178346 | 21.64 ug/ml | 99 |
| 53) 2,4,5-Trichlorophenol | 4.698 | 196 | 173441 | 20.29 ug/ml | 99 |
| 55) 2-Chloronaphthalene | 4.816 | 162 | 522059 | 20.45 ug/ml | 97 |
| 56) 2-Nitroaniline | 4.875 | 65 | 107760 | 21.81 ug/ml | 99 |
| 57) Dimethylphthalate | 4.981 | 163 | 611930 | 21.07 ug/ml | 100 |
| 58) Acenaphthylene | 5.081 | 152 | 853467 | 21.83 ug/ml | 96 |
| 59) 2,6-Dinitrotoluene | 5.022 | 165 | 145140 | 21.26 ug/ml | 91 |
| 60) 3-Nitroaniline | 5.134 | 138 | 157740 | 21.71 ug/ml | 98 |
| 61) Acenaphthene | 5.193 | 154 | 531790 | 20.48 ug/ml | 83 |
| 62) 2,4-Dinitrophenol | 5.198 | 184 | 49027m | 23.67 ug/ml | |
| 63) Dibenzofuran | 5.298 | 168 | 783383 | 20.59 ug/ml | 100 |
| 64) 4-Nitrophenol | 5.222 | 65 | 75225 | 23.01 ug/ml | 97 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 189229 | 21.97 ug/ml | 85 |
| 66) Diethylphthalate | 5.428 | 149 | 601252 | 21.71 ug/ml | 100 |
| 67) Fluorene | 5.516 | 166 | 634055 | 21.55 ug/ml | 97 |
| 68) 4-Chlorophenyl phenyl | 5.510 | 204 | 319753 | 20.86 ug/ml | 100 |
| 69) 4-Nitroaniline | 5.522 | 138 | 167314 | 21.51 ug/ml | 99 |
| 70) Atrazine | 5.928 | 200 | 198301 | 21.94 ug/ml | 99 |
| 72) 4,6-Dinitro-2-methylph | 5.540 | 198 | 83548m | 23.82 ug/ml | |
| 73) N-Nitrosodiphenylamine | 5.587 | 169 | 562658 | 21.00 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.616 | 77 | 505710 | 20.50 ug/ml | 99 |
| 76) 4-Bromophenyl phenyl e | 5.834 | 248 | 204834 | 21.06 ug/ml | 99 |
| 77) Hexachlorobenzene | 5.875 | 284 | 238484 | 19.91 ug/ml | 100 |
| 78) Pentachlorophenol | 6.004 | 266 | 123957 | 21.59 ug/ml | 100 |
| 79) Phenanthrene | 6.157 | 178 | 946684 | 19.79 ug/ml | 75 |
| 80) Anthracene | 6.187 | 178 | 964792 | 21.58 ug/ml | 99 |
| 81) Carbazole | 6.293 | 167 | 893840 | 21.37 ug/ml | 100 |
| 82) Di-n-butylphthalate | 6.522 | 149 | 1035420 | 21.42 ug/ml | 100 |
| 83) Fluoranthene | 7.057 | 202 | 1052988 | 21.11 ug/ml | 98 |
| 85) 3,3-Dimethylbenzidine | 7.934 | 212 | 442512 | 21.49 ug/ml | 100 |
| 86) Benzidine | 7.163 | 184 | 433771 | 22.06 ug/ml | 99 |
| 87) Pyrene | 7.269 | 202 | 1100140 | 20.25 ug/ml | 96 |
| 89) Butylbenzylphthalate | 7.951 | 149 | 459580 | 21.85 ug/ml | 99 |
| 90) Benzo[a]anthracene | 8.704 | 228 | 1040725 | 21.48 ug/ml | 91 |

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

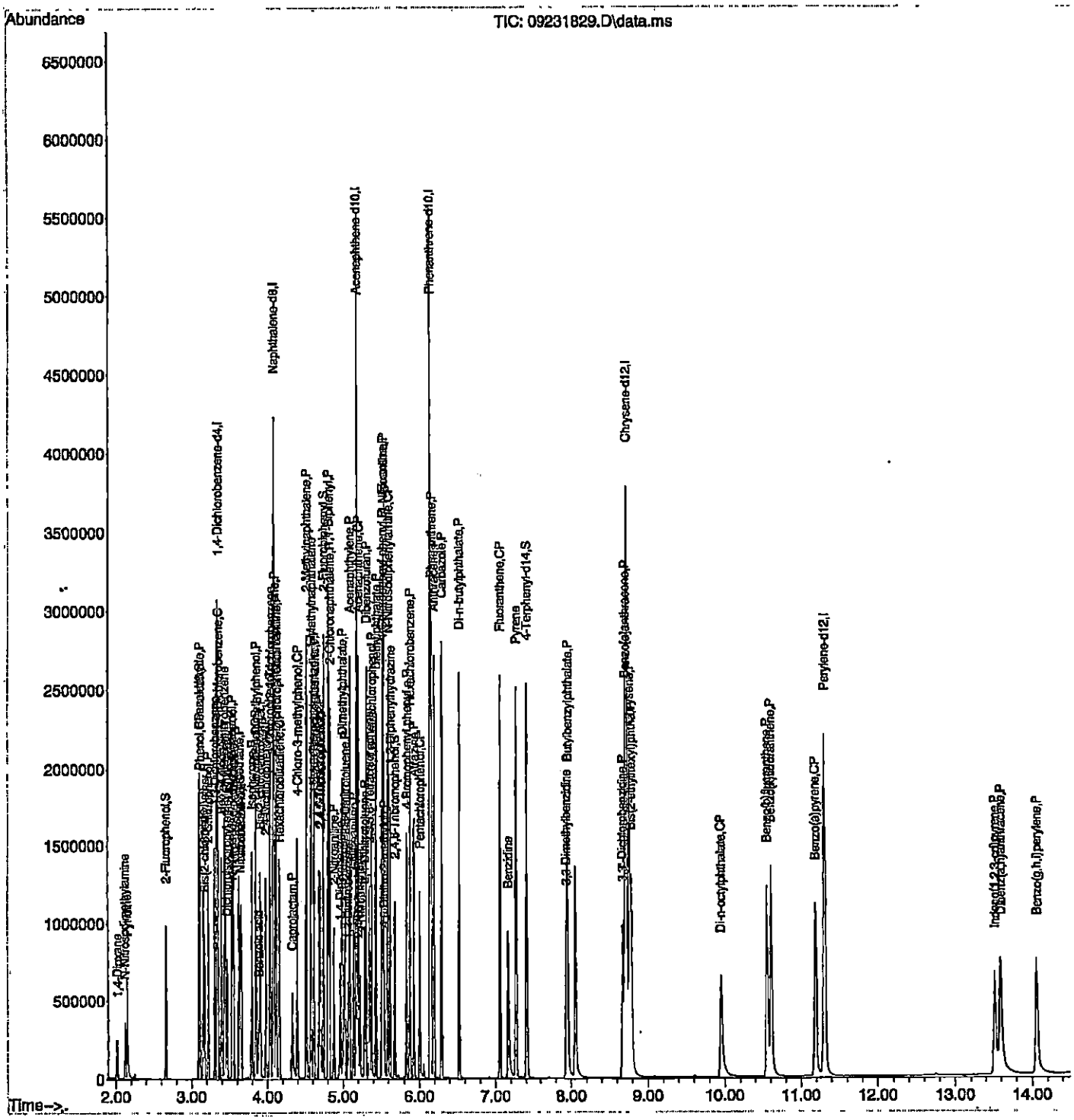
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) 3,3'-Dichlorobenzidine | 8.669 | 252 | 336378 | 21.70 | ug/ml | 100 |
| 92) Chrysene | 8.757 | 228 | 980618 | 20.58 | ug/ml | 95 |
| 93) Bis(2-ethylhexyl)phtha | 8.781 | 149 | 580117 | 22.48 | ug/ml | 100 |
| 95) Di-n-octylphthalate | 9.951 | 149 | 662876m | 23.41 | ug/ml | |
| 96) Benzo(b)fluoranthene | 10.551 | 252 | 853328 | 20.80 | ug/ml | 99 |
| 97) Benzo(k)fluoranthene | 10.604 | 252 | 950827 | 21.29 | ug/ml | 84 |
| 98) Benzo(a)pyrene | 11.181 | 252 | 827945 | 21.08 | ug/ml | 85 |
| 99) Indeno(1,2,3-cd)pyrene | 13.516 | 276 | 602040 | 20.88 | ug/ml | 67 |
| 100) Dibenz(a,h)anthracene | 13.592 | 278 | 678439 | 21.20 | ug/ml | 87 |
| 101) Benzo(g,h,i)perylene | 14.063 | 276 | 720394 | 20.78 | ug/ml | 70 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration



# Evaluate Continuing Calibration Report

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 40.000 | 40.000 | 0.0 | 112 | 0.00 |
| 2 | | 1,4-Dioxane | 20.000 | 18.824 | 5.9 | 108 | 0.00 |
| 3 | | Pyridine | 20.000 | 21.015 | -5.1 | 110 | 0.00 |
| 4 | | N-Nitrosodimethylamine | 20.000 | 19.781 | 1.1 | 111 | 0.00 |
| 5 | S | 2-Fluorophenol | 20.000 | 21.042 | -5.2 | 113 | 0.00 |
| 6 | P | Benzaldehyde | 20.000 | 17.508 | 12.5 | 111 | 0.00 |
| 7 | S | Phenol-d6 | 20.000 | 21.464 | -7.3 | 110 | 0.00 |
| 8 | CP | Phenol | 20.000 | 21.135 | -5.7 | 109 | 0.00 |
| 9 | | Aniline | 20.000 | 21.157 | -5.8 | 107 | 0.00 |
| 10 | P | Bis(2-chloroethyl)ether | 20.000 | 19.592 | 2.0 | 108 | 0.00 |
| 11 | P | 2-Chlorophenol | 20.000 | 21.104 | -5.5 | 110 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 20.000 | 20.030 | -0.2 | 110 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 20.000 | 19.925 | 0.4 | 110 | 0.00 |
| 14 | | Benzyl alcohol | 20.000 | 22.176 | -10.9 | 110 | 0.00 |
| 15 | | 1,2-Dichlorobenzene | 20.000 | 20.080 | -0.4 | 111 | 0.00 |
| 16 | P | 2-Methylphenol | 20.000 | 20.909 | -4.5 | 107 | 0.00 |
| 17 | P | Dichloroisopropyl ether | 20.000 | 19.569 | 2.2 | 107 | 0.00 |
| 18 | P | 3-Methylphenol | 20.000 | 21.233 | -6.2 | 109 | 0.00 |
| 19 | P | 4-Methylphenol | 20.000 | 21.237 | -6.2 | 109 | 0.00 |
| 20 | P | 3&4-Methylphenol | 20.000 | 21.230 | -6.2 | 109 | 0.00 |
| 21 | P | Acetophenone | 20.000 | 20.978 | -4.9 | 110 | 0.00 |
| 22 | P | N-Nitrosodi-n-propylamine | 20.000 | 21.422 | -7.1 | 107 | 0.00 |
| 23 | P | Hexachloroethane | 20.000 | 20.499 | -2.5 | 111 | 0.00 |
| 24 | I | Naphthalene-d8 | 40.000 | 40.000 | 0.0 | 110 | 0.00 |
| 25 | S | Nitrobenzene-d5 | 20.000 | 21.447 | -7.2 | 112 | 0.00 |
| 26 | P | Nitrobenzene | 20.000 | 21.410 | -7.1 | 109 | 0.00 |
| 27 | P | Isophorone | 20.000 | 20.712 | -3.6 | 105 | 0.00 |
| 28 | CP | 2-Nitrophenol | 20.000 | 22.180 | -10.9 | 120 | 0.00 |
| 29 | P | 2,4-Dimethylphenol | 20.000 | 21.084 | -5.4 | 104 | 0.00 |
| 30 | P | Bis(2-chloroethoxy)met | 20.000 | 20.616 | -3.1 | 108 | 0.00 |
| 31 | | Benzoic acid | 20.000 | 21.127 | -5.6 | 108 | 0.00 |
| 32 | CP | 2,4-Dichlorophenol | 20.000 | 22.229 | -11.1 | 109 | 0.00 |
| 33 | | 1,2,4-Trichlorobenzene | 20.000 | 20.270 | -1.3 | 110 | 0.00 |
| 34 | | 4-Chlorophenol | 20.000 | 22.237 | -11.2 | 107 | 0.00 |
| 35 | P | Naphthalene | 20.000 | 19.741 | 1.3 | 107 | 0.00 |
| 36 | P | 4-Chloroaniline | 20.000 | 21.251 | -6.3 | 107 | 0.00 |
| 37 | | 2,6-Dichlorophenol | 20.000 | 21.723 | -8.6 | 110 | 0.00 |
| 38 | CP | Hexachlorobutadiene | 20.000 | 20.330 | -1.6 | 111 | 0.00 |
| 39 | P | Caprolactam | 20.000 | 21.403 | -7.0 | 110 | 0.00 |
| 40 | CP | 4-Chloro-3-methylphenol | 20.000 | 22.255 | -11.3 | 107 | 0.00 |
| 41 | P | 2-Methylnaphthalene | 20.000 | 20.769 | -3.8 | 108 | 0.00 |
| 42 | | 1-Methylnaphthalene | 20.000 | 20.684 | -3.4 | 108 | 0.00 |
| 43 | P | 1,2,4,5-Tetrachlorobenzene | 20.000 | 20.224 | -1.1 | 108 | 0.00 |
| 44 | P | 1,1-Biphenyl | 20.000 | 20.966 | -4.8 | 110 | 0.00 |
| 45 | | 2,3,5,6-Tetrachlorophenol | 20.000 | 21.565 | -7.8 | 111 | 0.00 |
| 46 | P | 2,3,4,6-Tetrachlorophenol | 20.000 | 21.281 | -6.4 | 107 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | | 1,4-Dinitrobenzene | 20.000 | 23.400 | -17.0 | 118 | 0.00 |
| 48 | | 1,3-Dinitrobenzene | 20.000 | 22.460 | -12.3 | 112 | 0.00 |
| 49 | | 1,2-Dinitrobenzene | 20.000 | 21.503 | -7.5 | 109 | 0.00 |
| 50 | I | Acenaphthene-d10 | 40.000 | 40.000 | 0.0 | 107 | 0.00 |
| 51 | P | Hexachlorocyclopentadiene | 20.000 | 20.435 | -2.2 | 112 | 0.00 |
| 52 | CP | 2,4,6-Trichlorophenol | 20.000 | 21.637 | -8.2 | 113 | 0.00 |
| 53 | P | 2,4,5-Trichlorophenol | 20.000 | 20.292 | -1.5 | 108 | 0.00 |
| 54 | S | 2-Fluorobiphenyl | 20.000 | 20.679 | -3.4 | 109 | 0.00 |
| 55 | P | 2-Chloronaphthalene | 20.000 | 20.446 | -2.2 | 107 | 0.00 |
| 56 | P | 2-Nitroaniline | 20.000 | 21.806 | -9.0 | 110 | 0.00 |
| 57 | P | Dimethylphthalate | 20.000 | 21.074 | -5.4 | 107 | 0.00 |
| 58 | P | Acenaphthylene | 20.000 | 21.828 | -9.1 | 106 | 0.00 |
| 59 | P | 2,6-Dinitrotoluene | 20.000 | 21.255 | -6.3 | 109 | 0.00 |
| 60 | P | 3-Nitroaniline | 20.000 | 21.714 | -8.6 | 109 | 0.00 |
| 61 | CP | Acenaphthene | 20.000 | 20.478 | -2.4 | 106 | 0.00 |
| 62 | P | 2,4-Dinitrophenol | 20.000 | 23.666 | -18.3 | 120 | 0.00 |
| 63 | P | Dibenzofuran | 20.000 | 20.587 | -2.9 | 107 | 0.00 |
| 64 | P | 4-Nitrophenol | 20.000 | 23.011 | -15.1 | 111 | 0.00 |
| 65 | P | 2,4-Dinitrotoluene | 20.000 | 21.970 | -9.8 | 109 | 0.00 |
| 66 | P | Diethylphthalate | 20.000 | 21.711 | -8.6 | 107 | 0.00 |
| 67 | P | Fluorene | 20.000 | 21.549 | -7.7 | 107 | 0.00 |
| 68 | P | 4-Chlorophenyl phenyl | 20.000 | 20.862 | -4.3 | 108 | 0.00 |
| 69 | P | 4-Nitroaniline | 20.000 | 21.509 | -7.5 | 104 | 0.00 |
| 70 | P | Atrazine | 20.000 | 21.939 | -9.7 | 109 | 0.00 |
| 71 | I | Phenanthrene-d10 | 40.000 | 40.000 | 0.0 | 105 | 0.00 |
| 72 | P | 4,6-Dinitro-2-methylph | 20.000 | 23.819 | -19.1 | 119 | 0.00 |
| 73 | CP | N-Nitrosodiphenylamine | 20.000 | 20.999 | -5.0 | 105 | 0.00 |
| 74 | | 1,2-Diphenylhydrazine | 20.000 | 20.502 | -2.5 | 104 | 0.00 |
| 75 | S | 2,4,6-Tribromophenol | 20.000 | 21.573 | -7.9 | 112 | 0.00 |
| 76 | P | 4-Bromophenyl phenyl e | 20.000 | 21.065 | -5.3 | 108 | 0.00 |
| 77 | P | Hexachlorobenzene | 20.000 | 19.912 | 0.4 | 105 | 0.00 |
| 78 | CP | Pentachlorophenol | 20.000 | 21.591 | -8.0 | 106 | 0.00 |
| 79 | P | Phenanthrene | 20.000 | 19.791 | 1.0 | 104 | 0.00 |
| 80 | P | Anthracene | 20.000 | 21.575 | -7.9 | 103 | 0.00 |
| 81 | P | Carbazole | 20.000 | 21.374 | -6.9 | 101 | 0.00 |
| 82 | P | Di-n-butylphthalate | 20.000 | 21.420 | -7.1 | 108 | 0.00 |
| 83 | CP | Fluoranthene | 20.000 | 21.109 | -5.5 | 102 | 0.00 |
| 84 | I | Chrysene-d12 | 40.000 | 40.000 | 0.0 | 96 | 0.00 |
| 85 | | 3,3-Dimethylbenzidine | 20.000 | 21.494 | -7.5 | 99 | 0.00 |
| 86 | | Benzidine | 20.000 | 22.058 | -10.3 | 106 | 0.00 |
| 87 | | Pyrene | 20.000 | 20.246 | -1.2 | 101 | 0.00 |
| 88 | S | 4-Terphenyl-d14 | 20.000 | 20.690 | -3.5 | 103 | 0.00 |
| 89 | P | Butylbenzylphthalate | 20.000 | 21.847 | -9.2 | 104 | 0.00 |
| 90 | P | Benzo[a]anthracene | 20.000 | 21.482 | -7.4 | 101 | -0.01 |

# Evaluate Continuing Calibration Report

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 91 | P | 3,3'-Dichlorobenzidine | 20.000 | 21.700 | -8.5 | 97 | 0.00 |
| 92 | P | Chrysene | 20.000 | 20.575 | -2.9 | 94 | 0.00 |
| 93 | P | Bis(2-ethylhexyl)phtha | 20.000 | 22.478 | -12.4 | 105 | -0.01 |
| 94 | I | Perylene-d12 | 40.000 | 40.000 | 0.0 | 87 | 0.00 |
| 95 | CP | Di-n-octylphthalate | 20.000 | 23.408 | -17.0 | 98 | 0.00 |
| 96 | P | Benzo(b)fluoranthene | 20.000 | 20.799 | -4.0 | 85 | 0.01 |
| 97 | P | Benzo(k)fluoranthene | 20.000 | 21.286 | -6.4 | 90 | 0.00 |
| 98 | CP | Benzo(a)pyrene | 20.000 | 21.078 | -5.4 | 87 | 0.00 |
| 99 | P | Indeno(1,2,3-cd)pyrene | 20.000 | 20.881 | -4.4 | 89 | 0.02 |
| 100 | P | Dibenz(a,h)anthracene | 20.000 | 21.197 | -6.0 | 89 | 0.00 |
| 101 | P | Benzo(g,h,i)perylene | 20.000 | 20.782 | -3.9 | 91 | 0.01 |

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

# Evaluate Continuing Calibration Report

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 2 | | 1,4-Dioxane | 0.298 | 0.280 | 6.0 | 108 | 0.00 |
| 3 | | Pyridine | 0.692 | 0.727 | -5.1 | 110 | 0.00 |
| 4 | | N-Nitrosodimethylamine | 0.199 | 0.197 | 1.0 | 111 | 0.00 |
| 5 | S | 2-Fluorophenol | 0.724 | 0.762 | -5.2 | 113 | 0.00 |
| 6 | P | Benzaldehyde | 0.379 | 0.332 | 12.4 | 111 | 0.00 |
| 7 | S | Phenol-d6 | 0.884 | 0.949 | -7.4 | 110 | 0.00 |
| 8 | CP | Phenol | 0.924 | 0.976 | -5.6 | 109 | 0.00 |
| 9 | | Aniline | 1.219 | 1.289 | -5.7 | 107 | 0.00 |
| 10 | P | Bis(2-chloroethyl)ether | 0.765 | 0.750 | 2.0 | 108 | 0.00 |
| 11 | P | 2-Chlorophenol | 0.833 | 0.879 | -5.5 | 110 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 0.972 | 0.973 | -0.1 | 110 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 0.985 | 0.981 | 0.4 | 110 | 0.00 |
| 14 | | Benzyl alcohol | 0.497 | 0.551 | -10.9 | 110 | 0.00 |
| 15 | | 1,2-Dichlorobenzene | 0.938 | 0.942 | -0.4 | 111 | 0.00 |
| 16 | P | 2-Methylphenol | 0.642 | 0.671 | -4.5 | 107 | 0.00 |
| 17 | P | Dichloroisopropyl ether | 0.670 | 0.655 | 2.2 | 107 | 0.00 |
| 18 | P | 3-Methylphenol | 0.822 | 0.873 | -6.2 | 109 | 0.00 |
| 19 | P | 4-Methylphenol | 0.822 | 0.873 | -6.2 | 109 | 0.00 |
| 20 | P | 3&4-Methylphenol | 0.822 | 0.873 | -6.2 | 109 | 0.00 |
| 21 | P | Acetophenone | 1.118 | 1.173 | -4.9 | 110 | 0.00 |
| 22 | P | N-Nitrosodi-n-propylamine | 0.480 | 0.514 | -7.1 | 107 | 0.00 |
| 23 | P | Hexachloroethane | 0.338 | 0.346 | -2.4 | 111 | 0.00 |
| 24 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 110 | 0.00 |
| 25 | S | Nitrobenzene-d5 | 0.290 | 0.311 | -7.2 | 112 | 0.00 |
| 26 | P | Nitrobenzene | 0.288 | 0.308 | -6.9 | 109 | 0.00 |
| 27 | P | Isophorone | 0.605 | 0.627 | -3.6 | 105 | 0.00 |
| 28 | CP | 2-Nitrophenol | 0.145 | 0.180 | -24.1# | 120 | 0.00 |
| 29 | P | 2,4-Dimethylphenol | 0.319 | 0.336 | -5.3 | 104 | 0.00 |
| 30 | P | Bis(2-chloroethoxy)met | 0.395 | 0.407 | -3.0 | 108 | 0.00 |
| 31 | | Benzoic acid | 0.113 | 0.127 | -12.4 | 108 | 0.00 |
| 32 | CP | 2,4-Dichlorophenol | 0.286 | 0.317 | -10.8 | 109 | 0.00 |
| 33 | | 1,2,4-Trichlorobenzene | 0.341 | 0.345 | -1.2 | 110 | 0.00 |
| 34 | | 4-Chlorophenol | 0.355 | 0.395 | -11.3 | 107 | 0.00 |
| 35 | P | Naphthalene | 1.101 | 1.087 | 1.3 | 107 | 0.00 |
| 36 | P | 4-Chloroaniline | 0.440 | 0.467 | -6.1 | 107 | 0.00 |
| 37 | | 2,6-Dichlorophenol | 0.294 | 0.320 | -8.8 | 110 | 0.00 |
| 38 | CP | Hexachlorobutadiene | 0.196 | 0.200 | -2.0 | 111 | 0.00 |
| 39 | P | Caprolactam | 0.100 | 0.113 | -13.0 | 110 | 0.00 |
| 40 | CP | 4-Chloro-3-methylphenol | 0.272 | 0.303 | -11.4 | 107 | 0.00 |
| 41 | P | 2-Methylnaphthalene | 0.754 | 0.783 | -3.8 | 108 | 0.00 |
| 42 | | 1-Methylnaphthalene | 0.721 | 0.746 | -3.5 | 108 | 0.00 |
| 43 | P | 1,2,4,5-Tetrachlorobenzene | 0.377 | 0.382 | -1.3 | 108 | 0.00 |
| 44 | P | 1,1-Biphenyl | 0.926 | 0.971 | -4.9 | 110 | 0.00 |
| 45 | | 2,3,5,6-Tetrachlorophenol | 0.183 | 0.220 | -20.2# | 111 | 0.00 |
| 46 | P | 2,3,4,6-Tetrachlorophenol | 0.203 | 0.238 | -17.2 | 107 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | | 1,4-Dinitrobenzene | 0.085 | 0.114 | -34.1# | 118 | 0.00 |
| 48 | | 1,3-Dinitrobenzene | 0.111 | 0.144 | -29.7# | 112 | 0.00 |
| 49 | | 1,2-Dinitrobenzene | 0.083 | 0.102 | -22.9# | 109 | 0.00 |
| 50 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 51 | P | Hexachlorocyclopentadiene | 0.328 | 0.364 | -11.0 | 112 | 0.00 |
| 52 | CP | 2,4,6-Trichlorophenol | 0.340 | 0.410 | -20.6# | 113 | 0.00 |
| 53 | P | 2,4,5-Trichlorophenol | 0.359 | 0.399 | -11.1 | 108 | 0.00 |
| 54 | S | 2-Fluorobiphenyl | 1.395 | 1.442 | -3.4 | 109 | 0.00 |
| 55 | P | 2-Chloronaphthalene | 1.175 | 1.201 | -2.2 | 107 | 0.00 |
| 56 | P | 2-Nitroaniline | 0.198 | 0.248 | -25.3# | 110 | 0.00 |
| 57 | P | Dimethylphthalate | 1.336 | 1.408 | -5.4 | 107 | 0.00 |
| 58 | P | Acenaphthylene | 1.799 | 1.964 | -9.2 | 106 | 0.00 |
| 59 | P | 2,6-Dinitrotoluene | 0.276 | 0.334 | -21.0# | 109 | 0.00 |
| 60 | P | 3-Nitroaniline | 0.292 | 0.363 | -24.3# | 109 | 0.00 |
| 61 | CP | Acenaphthene | 1.195 | 1.224 | -2.4 | 106 | 0.00 |
| 62 | P | 2,4-Dinitrophenol | 0.086 | 0.113 | -31.4# | 120 | 0.00 |
| 63 | P | Dibenzofuran | 1.751 | 1.803 | -3.0 | 107 | 0.00 |
| 64 | P | 4-Nitrophenol | 0.131 | 0.173 | -32.1# | 111 | 0.00 |
| 65 | P | 2,4-Dinitrotoluene | 0.338 | 0.435 | -28.7# | 109 | 0.00 |
| 66 | P | Diethylphthalate | 1.274 | 1.384 | -8.6 | 107 | 0.00 |
| 67 | P | Fluorene | 1.354 | 1.459 | -7.8 | 107 | 0.00 |
| 68 | P | 4-Chlorophenyl phenyl | 0.705 | 0.736 | -4.4 | 108 | 0.00 |
| 69 | P | 4-Nitroaniline | 0.312 | 0.385 | -23.4# | 104 | 0.00 |
| 70 | P | Atrazine | 0.378 | 0.456 | -20.6# | 109 | 0.00 |
| 71 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 72 | P | 4,6-Dinitro-2-methylph | 0.073 | 0.103 | -41.1# | 119 | 0.00 |
| 73 | CP | N-Nitrosodiphenylamine | 0.658 | 0.691 | -5.0 | 105 | 0.00 |
| 74 | | 1,2-Diphenylhydrazine | 0.606 | 0.621 | -2.5 | 104 | 0.00 |
| 75 | S | 2,4,6-Tribromophenol | 0.127 | 0.161 | -26.8# | 112 | 0.00 |
| 76 | P | 4-Bromophenyl phenyl e | 0.239 | 0.252 | -5.4 | 108 | 0.00 |
| 77 | P | Hexachlorobenzene | 0.294 | 0.293 | 0.3 | 105 | 0.00 |
| 78 | CP | Pentachlorophenol | 0.121 | 0.152 | -25.6# | 106 | 0.00 |
| 79 | P | Phenanthrene | 1.175 | 1.163 | 1.0 | 104 | 0.00 |
| 80 | P | Anthracene | 1.099 | 1.185 | -7.8 | 103 | 0.00 |
| 81 | P | Carbazole | 1.027 | 1.098 | -6.9 | 101 | 0.00 |
| 82 | P | Di-n-butylphthalate | 1.032 | 1.272 | -23.3# | 108 | 0.00 |
| 83 | CP | Fluoranthene | 1.110 | 1.293 | -16.5 | 102 | 0.00 |
| 84 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 85 | | 3,3-Dimethylbenzidine | 0.418 | 0.506 | -21.1# | 99 | 0.00 |
| 86 | | Benzidine | 0.399 | 0.496 | -24.3# | 106 | 0.00 |
| 87 | | Pyrene | 1.113 | 1.258 | -13.0 | 101 | 0.00 |
| 88 | S | 4-Terphenyl-d14 | 0.916 | 1.026 | -12.0 | 103 | 0.00 |
| 89 | P | Butylbenzylphthalate | 0.401 | 0.526 | -31.2# | 104 | 0.00 |
| 90 | P | Benzo[a]anthracene | 1.146 | 1.190 | -3.8 | 101 | -0.01 |

# Evaluate Continuing Calibration Report

Data Path : E:\8S092318\
Data File : 09231829.D
Acq On : 23 Sep 2018 11:06 pm
Operator : RM
Sample : 20 ug/mL BNA ICV
Misc : 300-0390J
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 15:52:04 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 91 | P | 3,3'-Dichlorobenzidine | 0.306 | 0.385 | -25.8# | 97 | 0.00 |
| 92 | P | Chrysene | 1.090 | 1.122 | -2.9 | 94 | 0.00 |
| 93 | P | Bis(2-ethylhexyl)phtha | 0.496 | 0.664 | -33.9# | 105 | -0.01 |
| 94 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 95 | CP | Di-n-octylphthalate | 0.666 | 0.826 | -24.0# | 98 | 0.00 |
| 96 | P | Benzo(b)fluoranthene | 0.860 | 1.063 | -23.6# | 85 | 0.01 |
| 97 | P | Benzo(k)fluoranthene | 0.932 | 1.184 | -27.0# | 90 | 0.00 |
| 98 | CP | Benzo(a)pyrene | 0.795 | 1.031 | -29.7# | 87 | 0.00 |
| 99 | P | Indeno(1,2,3-cd)pyrene | 0.600 | 0.750 | -25.0# | 89 | 0.02 |
| 100 | P | Dibenz(a,h)anthracene | 0.674 | 0.845 | -25.4# | 89 | 0.00 |
| 101 | P | Benzo(g,h,i)perylene | 0.723 | 0.897 | -24.1# | 91 | 0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 5

2018 Sep 23 1403 Sequence Log
Starting sequence Sun Sep 23 14:03:05 2018

Instrument Name: SVMS8
Sequence File: D:\MassHunter\GCMS\1\sequence\8S092318.sequence.xml
Comment: Semivolatiles by 8270 / 625
Operator: RM
Data Path: D:\MassHunter\GCMS\1\data\8S092318\
Method Path: D:\MassHunter\GCMS\1\methods\

| Line | Type | Vials | DataFile | Sample Name |
|---|---|---|---|---|
| Acquisition Method: 8270.M | | | | |
| 1) | Sample | 1 | 09231801 | RINSE |
| | Comment: RINSE | | | |
| 2) | Sample | 1 | 09231802 | RINSE |
| | Comment: RINSE | | | |
| Acquisition Method: DFTPP.M | | | | |
| 3) | Sample | 2 | 09231803 | 50 ug/mL DFTPP |
| | Comment: 300-0363A | | | |
| Acquisition Method: 8270.M | | | | |
| 4) | Sample | 3 | 09231804 | 1 ug/mL APIX PST |
| | Comment: 300-0311A | | | |
| 5) | Sample | 4 | 09231805 | 5 ug/mL APIX PST |
| | Comment: 300-0311B | | | |
| 6) | Sample | 5 | 09231806 | 10 ug/mL APIX PST |
| | Comment: 300-0311C | | | |
| 7) | Sample | 6 | 09231807 | 20 ug/mL APIX PST |
| | Comment: 300-0311D | | | |
| 8) | Sample | 7 | 09231808 | 40 ug/mL APIX PST |
| | Comment: 300-0311E | | | |
| 9) | Sample | 8 | 09231809 | 50 ug/mL APIX PST |
| | Comment: 300-0311F | | | |
| 10) | Sample | 9 | 09231810 | 60 ug/mL APIX PST |
| | Comment: 300-0311G | | | |
| 11) | Sample | 10 | 09231811 | 1 ug/mL APIX |
| | Comment: 300-0376A | | | |
| 12) | Sample | 11 | 09231812 | 5 ug/mL APIX |
| | Comment: 300-0376B | | | |
| 13) | Sample | 12 | 09231813 | 10 ug/mL APIX |
| | Comment: 300-0376C | | | |
| 14) | Sample | 13 | 09231814 | 20 ug/mL APIX |
| | Comment: 300-0376D | | | |
| 15) | Sample | 14 | 09231815 | 40 ug/mL APIX |
| | Comment: 300-0376E | | | |
| 16) | Sample | 15 | 09231816 | 50 ug/mL APIX |
| | Comment: 300-0376F | | | |
| 17) | Sample | 16 | 09231817 | 60 ug/mL APIX |
| | Comment: 300-0376G | | | |
| 18) | Sample | 17 | 09231818 | 80 ug/mL APIX |
| | Comment: 300-0376H | | | |
| 19) | Sample | 18 | 09231819 | 40 ug/mL APIX ICV |
| | Comment: 300-0376J | | | |
| 20) | Sample | 19 | 09231820 | 0.1 ug/mL BNA |
| | Comment: 300-0390A | | | |
| 21) | Sample | 20 | 09231821 | 0.5 ug/mL BNA |
| | Comment: 300-0390B | | | |
| 22) | Sample | 21 | 09231822 | 1 ug/mL BNA |
| | Comment: 300-0390C | | | |
| 23) | Sample | 22 | 09231823 | 5 ug/mL BNA |
| | Comment: 300-0390D | | | |
| 24) | Sample | 23 | 09231824 | 10 ug/mL BNA |

2018 Sep 23 1403 Sequence Log

```
    Comment: 300-0390E
25) Sample          24      09231825                20 ug/mL BNA
    Comment: 300-0390F
26) Sample          25      09231826                40 ug/mL BNA
    Comment: 300-0390G
27) Sample          26      09231827                50 ug/mL BNA
    Comment: 300-0390H
28) Sample          27      09231828                60 ug/mL BNA
    Comment: 300-0390I
29) Sample          28      09231829                20 ug/mL BNA ICV
    Comment: 300-0390J
30) Sample          29      09231830                SBLKW1-124679
    Comment: 1X     18BAW-124679  WATER
31) Sample          30      09231831                SLCSW1-124679
    Comment: 1X     18BAW-124679  WATER
32) Sample          31      09231832                SBLKW1-124925
    Comment: 1X     18BAW-124925 WATER
33) Sample          32      09231833                SLCSW1-124925
    Comment: 1X     18BAW-124925 WATER

   Acquisition Method: DFTPP.M
34) Sample           2      09231834                50 ug/mL DFTPP
    Comment: 300-0363A

   Acquisition Method: 8270.M
35) Sample           6      09231835                20 ug/mL APIX PST
    Comment: 300-0311D
36) Sample          14      09231836                40 ug/mL APIX
    Comment: 300-0376E
37) Sample          24      09231837                20 ug/mL BNA
    Comment: 300-0390F
38) Sample          33      09231838                1809772-14A MS
    Comment: 1X     18BAW-124925 WATER
39) Sample          34      09231839                1809772-14A MSD
    Comment: 1X     18BAW-124925 WATER
40) Sample          35      09231840                1809772-14A
    Comment: 1X     18BAW-124925 WATER
41) Sample          36      09231841                1809695-04A MS DF5
    Comment: 1X     18BAW-124679  WATER
42) Sample          37      09231842                1809695-04A MSD DF5
    Comment: 1X     18BAW-124679  WATER
43) Sample          38      09231843                1809695-04A DF5
    Comment: 1X     18BAW-124679  WATER
44) Sample          39      09231844                18091050-01D
    Comment: 1X     18BAW-124925 WATER
45) Sample          40      09231845                18091050-02D DF5
    Comment: 1X     18BAW-124925 WATER
46) Sample          41      09231846                18091050-03D
    Comment: 1X     18BAW-124925 WATER
47) Sample          42      09231847                18091050-04D
    Comment: 1X     18BAW-124925 WATER
48) Sample          43      09231848                18091051-01E
    Comment: 1X     18BAW-124925 WATER
49) Sample          44      09231849                18091098-01C
    Comment: 1X     18BAW-124925 WATER
50) Sample          45      09231850                18091098-02C
    Comment: 1X     18BAW-124925 WATER
51) Sample          46      09231851                18091106-01G
    Comment: 1X     18BAW-124925 WATER
52) Sample          47      09231852                18091106-02G
    Comment: 1X     18BAW-124925 WATER
53) Sample          48      09231853                1809772-15A
    Comment: 1X     18BAW-124925 WATER
```

2018 Sep 23 1403 Sequence Log

```
54) Sample          49      09231854                1809772-16A DF20
    Comment: 20X     18BAW-124925 WATER
55) Sample          50      09231855                1809772-17A
    Comment: 1X     18BAW-124925 WATER
56) Sample          51      09231856                1809772-18A
    Comment: 1X     18BAW-124925 WATER
57) Sample          52      09231857                1809769-12A
    Comment: 1X     18BAW-124928 WATER
58) Sample          53      09231858                1809769-13A
    Comment: 1X     18BAW-124928 WATER
59) Sample          54      09231859                1809769-01A DF25
    Comment: 1X     18BAW-124676 WATER
60) Sample          55      09231860                1809769-02A DF25
    Comment: 1X     18BAW-124676 WATER
61) Sample          56      09231861                1809769-06A DF25
    Comment: 1X     18BAW-124676 WATER
62) Sample          57      09231862                1809769-09A DF25
    Comment: 1X     18BAW-124676 WATER
63) Sample          58      09231863                1809772-01A DF50
    Comment: 1X     18BAW-124676 WATER
64) Sample          59      09231864                18081991-01A
    Comment: 1X     18BAW-124990 WATER
65) Sample          60      09231865                18081991-02A
    Comment: 1X     18BAW-124990 WATER
66) Sample          61      09231866                18081991-16A DF500
67) Sample           1      09231867
68) Sample           1      09231868
69) Sample           1      09231869
70) Sample           1      09231870
```

Sequence completed Mon Sep 24 12:39:34 2018

D:\MassHunter\GCMS\1\data\8S092318\2018 Sep 23 1403 Sequence Log .LOG

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 40.000 | 40.000 | 0.0 | 86 | 0.00 |
| 2 | | 1,4-Dioxane | 20.000 | 19.564 | 2.2 | 87 | 0.00 |
| 3 | | Pyridine | 20.000 | 20.993 | -5.0 | 85 | 0.00 |
| 4 | | N-Nitrosodimethylamine | 20.000 | 18.780 | 6.1 | 82 | 0.00 |
| 5 | S | 2-Fluorophenol | 20.000 | 23.222 | -16.1 | 97 | 0.00 |
| 6 | P | Benzaldehyde | 20.000 | 18.738 | 6.3 | 92 | 0.00 |
| 7 | S | Phenol-d6 | 20.000 | 22.923 | -14.6 | 90 | 0.00 |
| 8 | CP | Phenol | 20.000 | 22.319 | -11.6 | 89 | 0.00 |
| 9 | | Aniline | 20.000 | 21.641 | -8.2 | 85 | 0.00 |
| 10 | P | Bis(2-chloroethyl)ether | 20.000 | 22.334 | -11.7 | 95 | 0.00 |
| 11 | P | 2-Chlorophenol | 20.000 | 23.741 | -18.7 | 96 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 20.000 | 23.289 | -16.4 | 99 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 20.000 | 23.126 | -15.6 | 99 | 0.00 |
| 14 | | Benzyl alcohol | 20.000 | 23.436 | -17.2 | 90 | 0.00 |
| 15 | | 1,2-Dichlorobenzene | 20.000 | 23.086 | -15.4 | 99 | 0.00 |
| 16 | P | 2-Methylphenol | 20.000 | 22.797 | -14.0 | 90 | 0.00 |
| 17 | P | Dichloroisopropyl ether | 20.000 | 18.806 | 6.0 | 79 | 0.00 |
| 18 | P | 3-Methylphenol | 20.000 | 23.204 | -16.0 | 92 | 0.00 |
| 19 | P | 4-Methylphenol | 20.000 | 23.133 | -15.7 | 92 | 0.00 |
| 20 | P | 3&4-Methylphenol | 20.000 | 23.097 | -15.5 | 91 | 0.00 |
| 21 | P | Acetophenone | 20.000 | 22.057 | -10.3 | 89 | 0.00 |
| 22 | P | N-Nitrosodi-n-propylamine | 20.000 | 21.802 | -9.0 | 84 | 0.00 |
| 23 | P | Hexachloroethane | 20.000 | 23.218 | -16.1 | 97 | 0.00 |
| 24 | I | Naphthalene-d8 | 40.000 | 40.000 | 0.0 | 94 | 0.00 |
| 25 | S | Nitrobenzene-d5 | 20.000 | 20.222 | -1.1 | 90 | 0.00 |
| 26 | P | Nitrobenzene | 20.000 | 19.936 | 0.3 | 87 | 0.00 |
| 27 | P | Isophorone | 20.000 | 19.133 | 4.3 | 83 | 0.00 |
| 28 | CP | 2-Nitrophenol | 20.000 | 22.887 | -14.4 | 106 | 0.00 |
| 29 | P | 2,4-Dimethylphenol | 20.000 | 21.063 | -5.3 | 88 | 0.00 |
| 30 | P | Bis(2-chloroethoxy)met | 20.000 | 19.804 | 1.0 | 89 | 0.00 |
| 31 | | Benzoic acid | 20.000 | 23.359 | -16.8 | 105 | 0.00 |
| 32 | CP | 2,4-Dichlorophenol | 20.000 | 22.932 | -14.7 | 96 | 0.00 |
| 33 | | 1,2,4-Trichlorobenzene | 20.000 | 21.467 | -7.3 | 99 | 0.00 |
| 34 | | 4-Chlorophenol | 20.000 | 22.174 | -10.9 | 91 | 0.00 |
| 35 | P | Naphthalene | 20.000 | 20.997 | -5.0 | 97 | 0.00 |
| 36 | P | 4-Chloroaniline | 20.000 | 21.571 | -7.9 | 92 | 0.00 |
| 37 | | 2,6-Dichlorophenol | 20.000 | 22.277 | -11.4 | 96 | 0.00 |
| 38 | CP | Hexachlorobutadiene | 20.000 | 21.433 | -7.2 | 100 | 0.00 |
| 39 | P | Caprolactam | 20.000 | 17.465 | 12.7 | 76 | 0.00 |
| 40 | CP | 4-Chloro-3-methylphenol | 20.000 | 21.223 | -6.1 | 87 | 0.00 |
| 41 | P | 2-Methylnaphthalene | 20.000 | 21.152 | -5.8 | 94 | 0.00 |
| 42 | | 1-Methylnaphthalene | 20.000 | 21.027 | -5.1 | 94 | 0.00 |
| 43 | P | 1,2,4,5-Tetrachlorobenzene | 20.000 | 21.907 | -9.5 | 100 | 0.00 |
| 44 | P | 1,1-Biphenyl | 20.000 | 21.083 | -5.4 | 95 | 0.00 |
| 45 | | 2,3,5,6-Tetrachlorophenol | 20.000 | 22.339 | -11.7 | 99 | 0.00 |
| 46 | P | 2,3,4,6-Tetrachlorophenol | 20.000 | 21.905 | -9.5 | 94 | 0.00 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | | 1,4-Dinitrobenzene | 20.000 | 26.113 | -30.6# | 115 | 0.00 |
| 48 | | 1,3-Dinitrobenzene | 20.000 | 23.705 | -18.5 | 101 | 0.00 |
| 49 | | 1,2-Dinitrobenzene | 20.000 | 22.861 | -14.3 | 99 | 0.00 |
| 50 | I | Acenaphthene-d10 | 40.000 | 40.000 | 0.0 | 94 | 0.00 |
| 51 | P | Hexachlorocyclopentadiene | 20.000 | 22.891 | -14.5 | 111 | 0.00 |
| 52 | CP | 2,4,6-Trichlorophenol | 20.000 | 20.625 | -3.1 | 94 | 0.00 |
| 53 | P | 2,4,5-Trichlorophenol | 20.000 | 21.203 | -6.0 | 99 | 0.00 |
| 54 | S | 2-Fluorobiphenyl | 20.000 | 21.035 | -5.2 | 97 | 0.00 |
| 55 | P | 2-Chloronaphthalene | 20.000 | 20.866 | -4.3 | 96 | 0.00 |
| 56 | P | 2-Nitroaniline | 20.000 | 19.430 | 2.9 | 85 | 0.00 |
| 57 | P | Dimethylphthalate | 20.000 | 20.721 | -3.6 | 92 | 0.00 |
| 58 | P | Acenaphthylene | 20.000 | 21.796 | -9.0 | 92 | 0.00 |
| 59 | P | 2,6-Dinitrotoluene | 20.000 | 21.182 | -5.9 | 95 | 0.00 |
| 60 | P | 3-Nitroaniline | 20.000 | 21.140 | -5.7 | 92 | 0.00 |
| 61 | CP | Acenaphthene | 20.000 | 20.706 | -3.5 | 94 | 0.00 |
| 62 | P | 2,4-Dinitrophenol | 20.000 | 23.943 | -19.7 | 106 | 0.00 |
| 63 | P | Dibenzofuran | 20.000 | 20.597 | -3.0 | 94 | 0.00 |
| 64 | P | 4-Nitrophenol | 20.000 | 18.352 | 8.2 | 76 | 0.00 |
| 65 | P | 2,4-Dinitrotoluene | 20.000 | 21.954 | -9.8 | 95 | 0.00 |
| 66 | P | Diethylphthalate | 20.000 | 20.834 | -4.2 | 89 | 0.00 |
| 67 | P | Fluorene | 20.000 | 21.241 | -6.2 | 92 | 0.00 |
| 68 | P | 4-Chlorophenyl phenyl | 20.000 | 20.773 | -3.9 | 93 | 0.00 |
| 69 | P | 4-Nitroaniline | 20.000 | 20.710 | -3.6 | 88 | 0.00 |
| 70 | P | Atrazine | 20.000 | 19.948 | 0.3 | 87 | 0.00 |
| 71 | I | Phenanthrene-d10 | 40.000 | 40.000 | 0.0 | 90 | 0.01 |
| 72 | P | 4,6-Dinitro-2-methylph | 20.000 | 23.890 | -19.5 | 102 | 0.00 |
| 73 | CP | N-Nitrosodiphenylamine | 20.000 | 21.331 | -6.7 | 91 | 0.00 |
| 74 | | 1,2-Diphenylhydrazine | 20.000 | 18.450 | 7.8 | 79 | 0.00 |
| 75 | S | 2,4,6-Tribromophenol | 20.000 | 22.542 | -12.7 | 100 | 0.00 |
| 76 | P | 4-Bromophenyl phenyl e | 20.000 | 21.965 | -9.8 | 96 | 0.00 |
| 77 | P | Hexachlorobenzene | 20.000 | 21.300 | -6.5 | 95 | 0.00 |
| 78 | CP | Pentachlorophenol | 20.000 | 22.182 | -10.9 | 93 | 0.01 |
| 79 | P | Phenanthrene | 20.000 | 19.981 | 0.1 | 89 | 0.01 |
| 80 | P | Anthracene | 20.000 | 21.687 | -8.4 | 88 | 0.01 |
| 81 | P | Carbazole | 20.000 | 20.972 | -4.9 | 85 | 0.00 |
| 82 | P | Di-n-butylphthalate | 20.000 | 18.879 | 5.6 | 81 | 0.01 |
| 83 | CP | Fluoranthene | 20.000 | 20.033 | -0.2 | 83 | 0.02 |
| 84 | I | Chrysene-d12 | 40.000 | 40.000 | 0.0 | 72 | 0.02 |
| 85 | | 3,3-Dimethylbenzidine | 20.000 | 18.166 | 9.2 | 59 | 0.02 |
| 86 | | Benzidine | 20.000 | 18.672 | 6.6 | 64 | 0.02 |
| 87 | | Pyrene | 20.000 | 21.977 | -9.9 | 82 | 0.02 |
| 88 | S | 4-Terphenyl-d14 | 20.000 | 21.886 | -9.4 | 81 | 0.02 |
| 89 | P | Butylbenzylphthalate | 20.000 | 19.112 | 4.4 | 67 | 0.02 |
| 90 | P | Benzo[a]anthracene | 20.000 | 19.785 | 1.1 | 69 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 91 | P | 3,3'-Dichlorobenzidine | 20.000 | 18.891 | 5.5 | 61 | 0.02 |
| 92 | P | Chrysene | 20.000 | 20.624 | -3.1 | 70 | 0.02 |
| 93 | P | Bis(2-ethylhexyl)phtha | 20.000 | 17.706 | 11.5 | 59 | 0.01 |
| 94 | I | Perylene-d12 | 40.000 | 40.000 | 0.0 | 62 | 0.02 |
| 95 | CP | Di-n-octylphthalate | 20.000 | 17.784 | 11.1 | 47 | 0.00 |
| 96 | P | Benzo(b)fluoranthene | 20.000 | 19.516 | 2.4 | 57 | 0.03 |
| 97 | P | Benzo(k)fluoranthene | 20.000 | 20.306 | -1.5 | 62 | 0.02 |
| 98 | CP | Benzo(a)pyrene | 20.000 | 19.401 | 3.0 | 57 | 0.02 |
| 99 | P | Indeno(1,2,3-cd)pyrene | 20.000 | 18.703 | 6.5 | 56 | 0.04 |
| 100 | P | Dibenz(a,h)anthracene | 20.000 | 19.499 | 2.5 | 58 | 0.02 |
| 101 | P | Benzo(g,h,i)perylene | 20.000 | 21.674 | -8.4 | 69 | 0.02 |

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

# Evaluate Continuing Calibration Report

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 2 | | 1,4-Dioxane | 0.298 | 0.291 | 2.3 | 87 | 0.00 |
| 3 | | Pyridine | 0.692 | 0.727 | -5.1 | 85 | 0.00 |
| 4 | | N-Nitrosodimethylamine | 0.199 | 0.187 | 6.0 | 82 | 0.00 |
| 5 | S | 2-Fluorophenol | 0.724 | 0.841 | -16.2 | 97 | 0.00 |
| 6 | P | Benzaldehyde | 0.379 | 0.355 | 6.3 | 92 | 0.00 |
| 7 | S | Phenol-d6 | 0.884 | 1.013 | -14.6 | 90 | 0.00 |
| 8 | CP | Phenol | 0.924 | 1.031 | -11.6 | 89 | 0.00 |
| 9 | | Aniline | 1.219 | 1.319 | -8.2 | 85 | 0.00 |
| 10 | P | Bis(2-chloroethyl)ether | 0.765 | 0.854 | -11.6 | 95 | 0.00 |
| 11 | P | 2-Chlorophenol | 0.833 | 0.989 | -18.7 | 96 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 0.972 | 1.131 | -16.4 | 99 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 0.985 | 1.139 | -15.6 | 99 | 0.00 |
| 14 | | Benzyl alcohol | 0.497 | 0.583 | -17.3 | 90 | 0.00 |
| 15 | | 1,2-Dichlorobenzene | 0.938 | 1.083 | -15.5 | 99 | 0.00 |
| 16 | P | 2-Methylphenol | 0.642 | 0.732 | -14.0 | 90 | 0.00 |
| 17 | P | Dichloroisopropyl ether | 0.670 | 0.630 | 6.0 | 79 | 0.00 |
| 18 | P | 3-Methylphenol | 0.822 | 0.954 | -16.1 | 92 | 0.00 |
| 19 | P | 4-Methylphenol | 0.822 | 0.951 | -15.7 | 92 | 0.00 |
| 20 | P | 3&4-Methylphenol | 0.822 | 0.950 | -15.6 | 91 | 0.00 |
| 21 | P | Acetophenone | 1.118 | 1.233 | -10.3 | 89 | 0.00 |
| 22 | P | N-Nitrosodi-n-propylamine | 0.480 | 0.523 | -9.0 | 84 | 0.00 |
| 23 | P | Hexachloroethane | 0.338 | 0.392 | -16.0 | 97 | 0.00 |
| 24 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 25 | S | Nitrobenzene-d5 | 0.290 | 0.293 | -1.0 | 90 | 0.00 |
| 26 | P | Nitrobenzene | 0.288 | 0.287 | 0.3 | 87 | 0.00 |
| 27 | P | Isophorone | 0.605 | 0.579 | 4.3 | 83 | 0.00 |
| 28 | CP | 2-Nitrophenol | 0.145 | 0.187 | -29.0# | 106 | 0.00 |
| 29 | P | 2,4-Dimethylphenol | 0.319 | 0.336 | -5.3 | 88 | 0.00 |
| 30 | P | Bis(2-chloroethoxy)met | 0.395 | 0.391 | 1.0 | 89 | 0.00 |
| 31 | | Benzoic acid | 0.113 | 0.145 | -28.3# | 105 | 0.00 |
| 32 | CP | 2,4-Dichlorophenol | 0.286 | 0.327 | -14.3 | 96 | 0.00 |
| 33 | | 1,2,4-Trichlorobenzene | 0.341 | 0.366 | -7.3 | 99 | 0.00 |
| 34 | | 4-Chlorophenol | 0.355 | 0.394 | -11.0 | 91 | 0.00 |
| 35 | P | Naphthalene | 1.101 | 1.156 | -5.0 | 97 | 0.00 |
| 36 | P | 4-Chloroaniline | 0.440 | 0.474 | -7.7 | 92 | 0.00 |
| 37 | | 2,6-Dichlorophenol | 0.294 | 0.328 | -11.6 | 96 | 0.00 |
| 38 | CP | Hexachlorobutadiene | 0.196 | 0.211 | -7.7 | 100 | 0.00 |
| 39 | P | Caprolactam | 0.100 | 0.091 | 9.0 | 76 | 0.00 |
| 40 | CP | 4-Chloro-3-methylphenol | 0.272 | 0.289 | -6.2 | 87 | 0.00 |
| 41 | P | 2-Methylnaphthalene | 0.754 | 0.797 | -5.7 | 94 | 0.00 |
| 42 | | 1-Methylnaphthalene | 0.721 | 0.758 | -5.1 | 94 | 0.00 |
| 43 | P | 1,2,4,5-Tetrachlorobenzene | 0.377 | 0.413 | -9.5 | 100 | 0.00 |
| 44 | P | 1,1-Biphenyl | 0.926 | 0.976 | -5.4 | 95 | 0.00 |
| 45 | | 2,3,5,6-Tetrachlorophenol | 0.183 | 0.229 | -25.1# | 99 | 0.00 |
| 46 | P | 2,3,4,6-Tetrachlorophenol | 0.203 | 0.245 | -20.7# | 94 | 0.00 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 47 | | 1,4-Dinitrobenzene | 0.085 | 0.130 | -52.9# | 115 | 0.00 |
| 48 | | 1,3-Dinitrobenzene | 0.111 | 0.153 | -37.8# | 101 | 0.00 |
| 49 | | 1,2-Dinitrobenzene | 0.083 | 0.109 | -31.3# | 99 | 0.00 |
| 50 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 51 | P | Hexachlorocyclopentadiene | 0.328 | 0.411 | -25.3# | 111 | 0.00 |
| 52 | CP | 2,4,6-Trichlorophenol | 0.340 | 0.391 | -15.0 | 94 | 0.00 |
| 53 | P | 2,4,5-Trichlorophenol | 0.359 | 0.418 | -16.4 | 99 | 0.00 |
| 54 | S | 2-Fluorobiphenyl | 1.395 | 1.467 | -5.2 | 97 | 0.00 |
| 55 | P | 2-Chloronaphthalene | 1.175 | 1.226 | -4.3 | 96 | 0.00 |
| 56 | P | 2-Nitroaniline | 0.198 | 0.220 | -11.1 | 85 | 0.00 |
| 57 | P | Dimethylphthalate | 1.336 | 1.384 | -3.6 | 92 | 0.00 |
| 58 | P | Acenaphthylene | 1.799 | 1.961 | -9.0 | 92 | 0.00 |
| 59 | P | 2,6-Dinitrotoluene | 0.276 | 0.333 | -20.7# | 95 | 0.00 |
| 60 | P | 3-Nitroaniline | 0.292 | 0.353 | -20.9# | 92 | 0.00 |
| 61 | CP | Acenaphthene | 1.195 | 1.237 | -3.5 | 94 | 0.00 |
| 62 | P | 2,4-Dinitrophenol | 0.086 | 0.115 | -33.7# | 106 | 0.00 |
| 63 | P | Dibenzofuran | 1.751 | 1.804 | -3.0 | 94 | 0.00 |
| 64 | P | 4-Nitrophenol | 0.131 | 0.135 | -3.1 | 76 | 0.00 |
| 65 | P | 2,4-Dinitrotoluene | 0.338 | 0.435 | -28.7# | 95 | 0.00 |
| 66 | P | Diethylphthalate | 1.274 | 1.328 | -4.2 | 89 | 0.00 |
| 67 | P | Fluorene | 1.354 | 1.438 | -6.2 | 92 | 0.00 |
| 68 | P | 4-Chlorophenyl phenyl | 0.705 | 0.733 | -4.0 | 93 | 0.00 |
| 69 | P | 4-Nitroaniline | 0.312 | 0.370 | -18.6 | 88 | 0.00 |
| 70 | P | Atrazine | 0.378 | 0.414 | -9.5 | 87 | 0.00 |
| 71 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 90 | 0.01 |
| 72 | P | 4,6-Dinitro-2-methylph | 0.073 | 0.103 | -41.1# | 102 | 0.00 |
| 73 | CP | N-Nitrosodiphenylamine | 0.658 | 0.702 | -6.7 | 91 | 0.00 |
| 74 | | 1,2-Diphenylhydrazine | 0.606 | 0.559 | 7.8 | 79 | 0.00 |
| 75 | S | 2,4,6-Tribromophenol | 0.127 | 0.169 | -33.1# | 100 | 0.00 |
| 76 | P | 4-Bromophenyl phenyl e | 0.239 | 0.262 | -9.6 | 96 | 0.00 |
| 77 | P | Hexachlorobenzene | 0.294 | 0.313 | -6.5 | 95 | 0.00 |
| 78 | CP | Pentachlorophenol | 0.121 | 0.157 | -29.8# | 93 | 0.01 |
| 79 | P | Phenanthrene | 1.175 | 1.174 | 0.1 | 89 | 0.01 |
| 80 | P | Anthracene | 1.099 | 1.191 | -8.4 | 88 | 0.01 |
| 81 | P | Carbazole | 1.027 | 1.077 | -4.9 | 85 | 0.00 |
| 82 | P | Di-n-butylphthalate | 1.032 | 1.120 | -8.5 | 81 | 0.01 |
| 83 | CP | Fluoranthene | 1.110 | 1.229 | -10.7 | 83 | 0.02 |
| 84 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 72 | 0.02 |
| 85 | | 3,3-Dimethylbenzidine | 0.418 | 0.408 | 2.4 | 59 | 0.02 |
| 86 | | Benzidine | 0.399 | 0.400 | -0.3 | 64 | 0.02 |
| 87 | | Pyrene | 1.113 | 1.366 | -22.7# | 82 | 0.02 |
| 88 | S | 4-Terphenyl-d14 | 0.916 | 1.088 | -18.8 | 81 | 0.02 |
| 89 | P | Butylbenzylphthalate | 0.401 | 0.455 | -13.5 | 67 | 0.02 |
| 90 | P | Benzo[a]anthracene | 1.146 | 1.096 | 4.4 | 69 | 0.00 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 91 | P | 3,3'-Dichlorobenzidine | 0.306 | 0.328 | -7.2 | 61 | 0.02 |
| 92 | P | Chrysene | 1.090 | 1.124 | -3.1 | 70 | 0.02 |
| 93 | P | Bis(2-ethylhexyl)phtha | 0.496 | 0.507 | -2.2 | 59 | 0.01 |
| 94 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 62 | 0.02 |
| 95 | CP | Di-n-octylphthalate | 0.666 | 0.556 | 16.5 | 47# | 0.00 |
| 96 | P | Benzo(b)fluoranthene | 0.860 | 0.992 | -15.3 | 57 | 0.03 |
| 97 | P | Benzo(k)fluoranthene | 0.932 | 1.128 | -21.0# | 62 | 0.02 |
| 98 | CP | Benzo(a)pyrene | 0.795 | 0.943 | -18.6 | 57 | 0.02 |
| 99 | P | Indeno(1,2,3-cd)pyrene | 0.600 | 0.657 | -9.5 | 56 | 0.04 |
| 100 | P | Dibenz(a,h)anthracene | 0.674 | 0.765 | -13.5 | 58 | 0.02 |
| 101 | P | Benzo(g,h,i)perylene | 0.723 | 0.942 | -30.3# | 69 | 0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 460938m | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1229213m | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.175 | 164 | 757925 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.151 | 188 | 1385549 | 40.00 | ug/ml | 0.01 |
| 84) Chrysene-d12 | 8.739 | 240 | 1297826 | 40.00 | ug/ml | 0.02 |
| 94) Perylene-d12 | 11.322 | 264 | 1150024 | 40.00 | ug/ml | 0.02 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 2.663 | 112 | 193873 | 23.22 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 46.44% | | | |
| 7) Phenol-d6 | 3.104 | 99 | 233515 | 22.92 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 45.84%# | | | |
| 25) Nitrobenzene-d5 | 3.646 | 82 | 180034m | 20.22 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 40.44% | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 555857 | 21.03 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 42.06% | | | |
| 75) 2,4,6-Tribromophenol | 5.681 | 330 | 117209 | 22.54 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 45.08% | | | |
| 88) 4-Terphenyl-d14 | 7.428 | 244 | 706110 | 21.89 | ug/ml | 0.02 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 43.78% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.016 | 88 | 67146 | 19.56 | ug/ml | 93 |
| 3) Pyridine | 2.152 | 79 | 167450 | 20.99 | ug/ml | 96 |
| 4) N-Nitrosodimethylamine | 2.122 | 42 | 43066m | 18.78 | ug/ml | |
| 6) Benzaldehyde | 3.104 | 77 | 81910m | 18.74 | ug/ml | |
| 8) Phenol | 3.110 | 94 | 237646 | 22.32 | ug/ml | 98 |
| 9) Aniline | 3.152 | 93 | 303972 | 21.64 | ug/ml | 98 |
| 10) Bis(2-chloroethyl)ether | 3.175 | 93 | 196932 | 22.33 | ug/ml | 92 |
| 11) 2-Chlorophenol | 3.216 | 128 | 227954 | 23.74 | ug/ml | 96 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 260730 | 23.29 | ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.346 | 146 | 262504 | 23.13 | ug/ml | 99 |
| 14) Benzyl alcohol | 3.399 | 108 | 134276 | 23.44 | ug/ml | 95 |
| 15) 1,2-Dichlorobenzene | 3.434 | 146 | 249613 | 23.09 | ug/ml | 98 |
| 16) 2-Methylphenol | 3.446 | 107 | 168615 | 22.80 | ug/ml | 99 |
| 17) Dichloroisopropyl ether | 3.469 | 45 | 145112 | 18.81 | ug/ml | 89 |
| 18) 3-Methylphenol | 3.534 | 107 | 219814m | 23.20 | ug/ml | |
| 19) 4-Methylphenol | 3.534 | 107 | 219103m | 23.13 | ug/ml | |
| 20) 3&4-Methylphenol | 3.534 | 107 | 218839m | 23.10 | ug/ml | |
| 21) Acetophenone | 3.552 | 105 | 284115 | 22.06 | ug/ml | 96 |
| 22) N-Nitrosodi-n-propylamine | 3.546 | 70 | 120580 | 21.80 | ug/ml | 96 |
| 23) Hexachloroethane | 3.628 | 117 | 90375 | 23.22 | ug/ml | 92 |
| 26) Nitrobenzene | 3.657 | 77 | 176344 | 19.94 | ug/ml | 93 |
| 27) Isophorone | 3.793 | 82 | 355726 | 19.13 | ug/ml | 95 |
| 28) 2-Nitrophenol | 3.840 | 139 | 114814m | 22.89 | ug/ml | |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 206267 | 21.06 | ug/ml | 97 |
| 30) Bis(2-chloroethoxy)met | 3.910 | 93 | 240334 | 19.80 | ug/ml | 99 |
| 31) Benzoic acid | 3.893 | 122 | 88983 | 23.36 | ug/ml | 94 |
| 32) 2,4-Dichlorophenol | 3.981 | 162 | 201202 | 22.93 | ug/ml | 98 |
| 33) 1,2,4-Trichlorobenzene | 4.040 | 180 | 224688 | 21.47 | ug/ml | 99 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 34) 4-Chlorophenol | 4.028 | 128 | 242010 | 22.17 ug/ml | 97 |
| 35) Naphthalene | 4.093 | 128 | 710619 | 21.00 ug/ml# | 12 |
| 36) 4-Chloroaniline | 4.110 | 127 | 291424 | 21.57 ug/ml | 98 |
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 201457 | 22.28 ug/ml | 99 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 129415 | 21.43 ug/ml | 99 |
| 39) Caprolactam | 4.328 | 55 | 56082 | 17.46 ug/ml | 92 |
| 40) 4-Chloro-3-methylphenol | 4.399 | 107 | 177661 | 21.22 ug/ml | 95 |
| 41) 2-Methylnaphthalene | 4.516 | 142 | 489969 | 21.15 ug/ml | 96 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 465941 | 21.03 ug/ml | 98 |
| 43) 1,2,4,5-Tetrachloroben... | 4.616 | 216 | 254133 | 21.91 ug/ml | 100 |
| 44) 1,1-Biphenyl | 4.804 | 154 | 600117 | 21.08 ug/ml | 99 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.351 | 232 | 140528 | 22.34 ug/ml | 100 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.375 | 232 | 150668 | 21.91 ug/ml | 98 |
| 47) 1,4-Dinitrobenzene | 4.963 | 168 | 79778m | 26.11 ug/ml | |
| 48) 1,3-Dinitrobenzene | 5.010 | 168 | 94230m | 23.70 ug/ml | |
| 49) 1,2-Dinitrobenzene | 5.063 | 168 | 66954 | 22.86 ug/ml# | 82 |
| 51) Hexachlorocyclopentadiene | 4.610 | 237 | 155772 | 22.89 ug/ml | 99 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 148091 | 20.62 ug/ml | 99 |
| 53) 2,4,5-Trichlorophenol | 4.704 | 196 | 158298 | 21.20 ug/ml | 100 |
| 55) 2-Chloronaphthalene | 4.822 | 162 | 464609 | 20.87 ug/ml | 99 |
| 56) 2-Nitroaniline | 4.875 | 65 | 83319 | 19.43 ug/ml | 86 |
| 57) Dimethylphthalate | 4.987 | 163 | 524663 | 20.72 ug/ml | 99 |
| 58) Acenaphthylene | 5.087 | 152 | 743137 | 21.80 ug/ml | 96 |
| 59) 2,6-Dinitrotoluene | 5.028 | 165 | 126117 | 21.18 ug/ml | 92 |
| 60) 3-Nitroaniline | 5.140 | 138 | 133784 | 21.14 ug/ml | 89 |
| 61) Acenaphthene | 5.193 | 154 | 468893 | 20.71 ug/ml | 83 |
| 62) 2,4-Dinitrophenol | 5.204 | 184 | 43490m | 23.94 ug/ml | |
| 63) Dibenzofuran | 5.304 | 168 | 683478 | 20.60 ug/ml | 98 |
| 64) 4-Nitrophenol | 5.228 | 65 | 51331 | 18.35 ug/ml | 85 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 164885 | 21.95 ug/ml | 94 |
| 66) Diethylphthalate | 5.434 | 149 | 503118 | 20.83 ug/ml | 99 |
| 67) Fluorene | 5.528 | 166 | 545016 | 21.24 ug/ml | 97 |
| 68) 4-Chlorophenyl phenyl | 5.516 | 204 | 277633 | 20.77 ug/ml | 97 |
| 69) 4-Nitroaniline | 5.528 | 138 | 140311 | 20.71 ug/ml | 95 |
| 70) Atrazine | 5.934 | 200 | 156978 | 19.95 ug/ml | 97 |
| 72) 4,6-Dinitro-2-methylph | 5.546 | 198 | 71362m | 23.89 ug/ml | |
| 73) N-Nitrosodiphenylamine | 5.593 | 169 | 486354 | 21.33 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.622 | 77 | 387247 | 18.45 ug/ml | 92 |
| 76) 4-Bromophenyl phenyl e | 5.840 | 248 | 181752 | 21.97 ug/ml | 96 |
| 77) Hexachlorobenzene | 5.887 | 284 | 217071 | 21.30 ug/ml | 97 |
| 78) Pentachlorophenol | 6.016 | 266 | 108822 | 22.18 ug/ml | 98 |
| 79) Phenanthrene | 6.169 | 178 | 813288 | 19.98 ug/ml | 75 |
| 80) Anthracene | 6.204 | 178 | 825218 | 21.69 ug/ml | 99 |
| 81) Carbazole | 6.304 | 167 | 746253 | 20.97 ug/ml | 98 |
| 82) Di-n-butylphthalate | 6.540 | 149 | 775827 | 18.88 ug/ml | 100 |
| 83) Fluoranthene | 7.075 | 202 | 851331 | 20.03 ug/ml | 97 |
| 85) 3,3-Dimethylbenzidine | 7.957 | 212 | 264750 | 18.17 ug/ml | 99 |
| 86) Benzidine | 7.187 | 184 | 259280 | 18.67 ug/ml | 97 |
| 87) Pyrene | 7.287 | 202 | 886634 | 21.98 ug/ml | 95 |
| 89) Butylbenzylphthalate | 7.975 | 149 | 294935 | 19.11 ug/ml | 95 |
| 90) Benzo[a]anthracene | 8.722 | 228 | 711021 | 19.78 ug/ml | 90 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

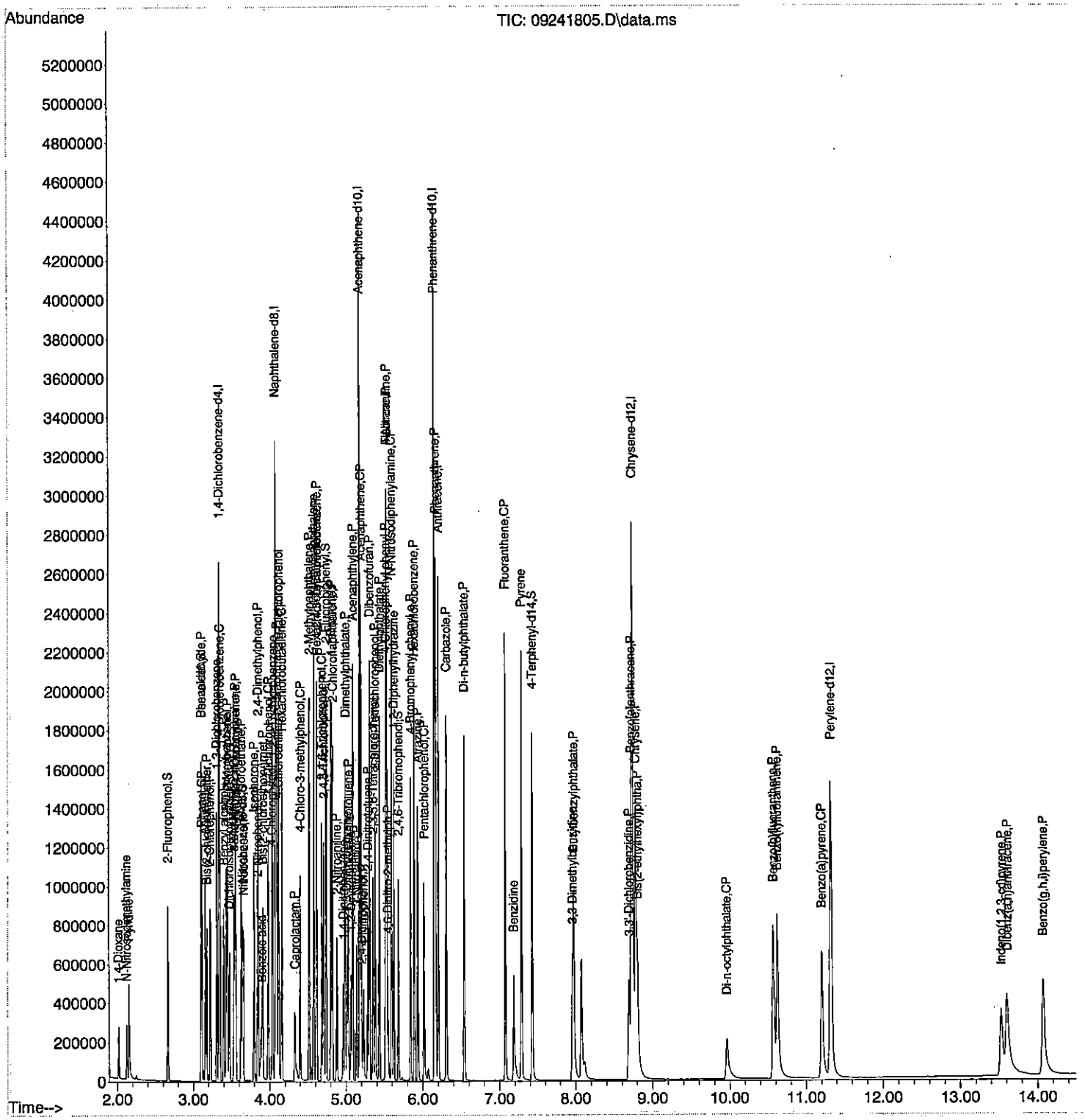
Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) 3,3'-Dichlorobenzidine | 8.692 | 252 | 212659 | 18.89 ug/ml | 99 |
| 92) Chrysene | 8.781 | 228 | 729597 | 20.62 ug/ml | 95 |
| 93) Bis(2-ethylhexyl)phtha | 8.804 | 149 | 329180 | 17.71 ug/ml | 99 |
| 95) Di-n-octylphthalate | 9.963 | 149 | 319516m | 17.78 ug/ml | |
| 96) Benzo(b)fluoranthene | 10.569 | 252 | 570427 | 19.52 ug/ml | 99 |
| 97) Benzo(k)fluoranthene | 10.622 | 252 | 648480 | 20.31 ug/ml | 85 |
| 98) Benzo(a)pyrene | 11.198 | 252 | 542158 | 19.40 ug/ml | 86 |
| 99) Indeno(1,2,3-cd)pyrene | 13.533 | 276 | 377930 | 18.70 ug/ml | 68 |
| 100) Dibenz(a,h)anthracene | 13.610 | 278 | 440063 | 19.50 ug/ml | 87 |
| 101) Benzo(g,h,i)perylene | 14.074 | 276 | 541576 | 21.67 ug/ml | 71 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\SVMS8\8A092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 08:55 pm
Operator : RM
Sample : 20 ug/mL BNA
Misc : 300-0390F
ALS Vial : 4 Sample Multiplier: 1

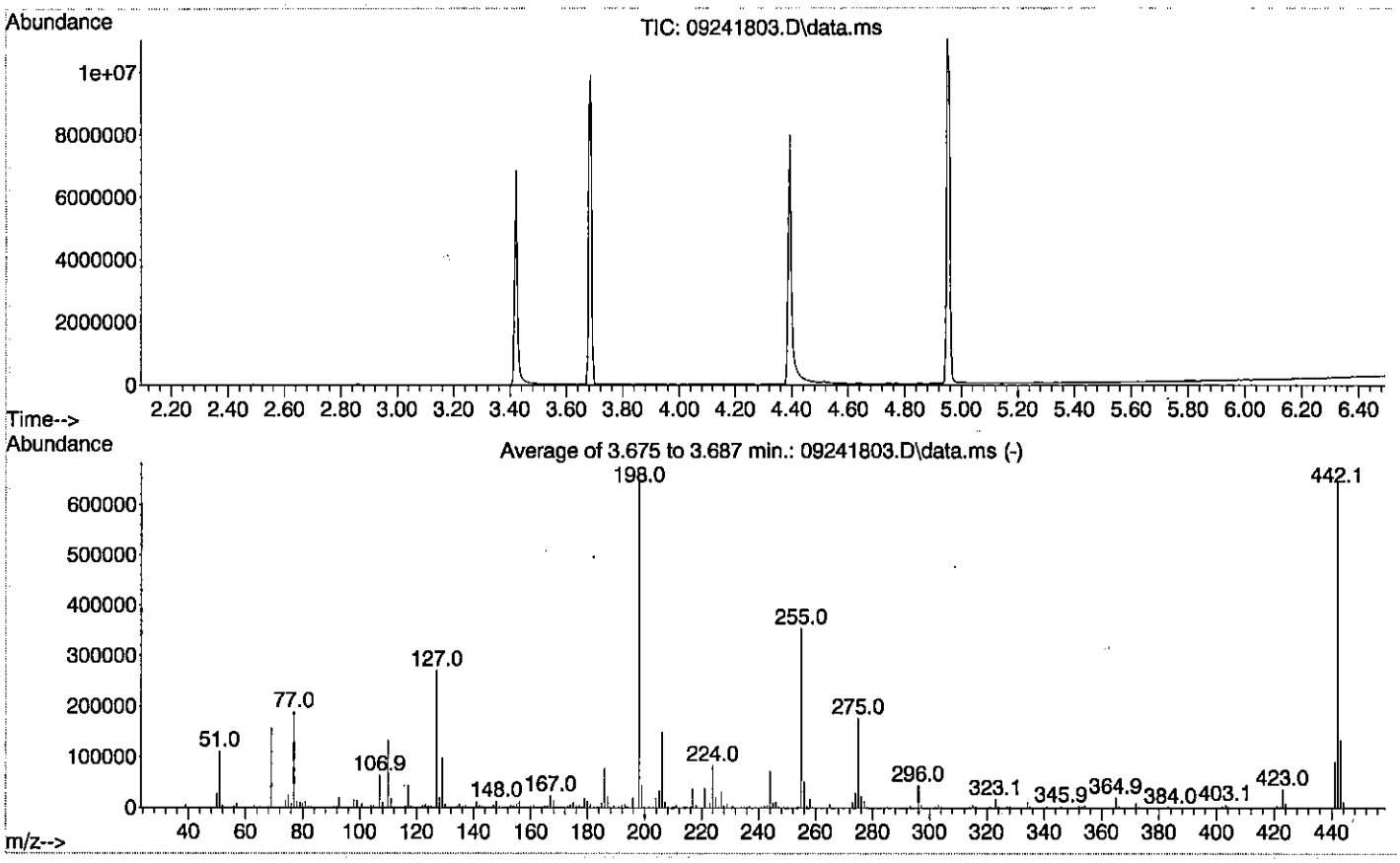
Quant Time: Sep 25 08:26:02 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration



Data Path : E:\SVMS8\8A092418\
Data File : 09241803.D
Acq On : 24 Sep 2018 08:23 pm
Operator : RM
Sample : 50 ug/mL DFTPP
Misc : 300-0363A
ALS Vial : 2 Sample Multiplier: 1

Integration File: 8270.P

Method : E:\Methods\8S092318.M
Title : 8270/625/1311 Calibration
Last Update : Mon Oct 01 15:38:13 2018




Spectrum Information: Average of 3.675 to 3.687 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 17.1 | 111437 | PASS |
| 68 | 69 | 0.00 | 2 | 1.6 | 2487 | PASS |
| 69 | 198 | 0.00 | 100 | 24.1 | 156718 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 622 | PASS |
| 127 | 198 | 10 | 80 | 41.7 | 271356 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 151 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 650368 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 43641 | PASS |
| 275 | 198 | 10 | 60 | 27.1 | 176481 | PASS |
| 365 | 198 | 1 | 100 | 3.2 | 20536 | PASS |
| 441 | 443 | 0.01 | 100 | 67.8 | 90830 | PASS |
| 442 | 198 | 50 | 100 | 99.6 | 647499 | PASS |
| 443 | 442 | 15 | 24 | 20.7 | 133989 | PASS |

# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181822.D
Acq On : 18 Sep 2018 8:48 pm
Operator : EB
Sample : SBLKW1-124572
Misc : 1X 18BAW-124572/73
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 19 08:11:50 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 449718 | 40.00 | ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1043964 | 40.00 | ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 636174 | 40.00 | ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.137 | 188 | 1199227 | 40.00 | ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.683 | 240 | 1101687 | 40.00 | ug/ml | 0.00 |
| 92) Perylene-d12 | 11.213 | 264 | 1157267 | 40.00 | ug/ml | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 179731 | 21.38 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 42.76% | | | |
| 7) Phenol-d6 | 3.125 | 99 | 148588 | 13.88 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 27.76% | | | |
| 23) Nitrobenzene-d5 | 3.648 | 82 | 372397 | 30.93 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 61.86% | | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 661585 | 29.43 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 58.86% | | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 129786 | 35.40 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 70.80% | | | |
| 86) 4-Terphenyl-d14 | 7.395 | 244 | 1108835 | 42.49 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 84.98% | | | |

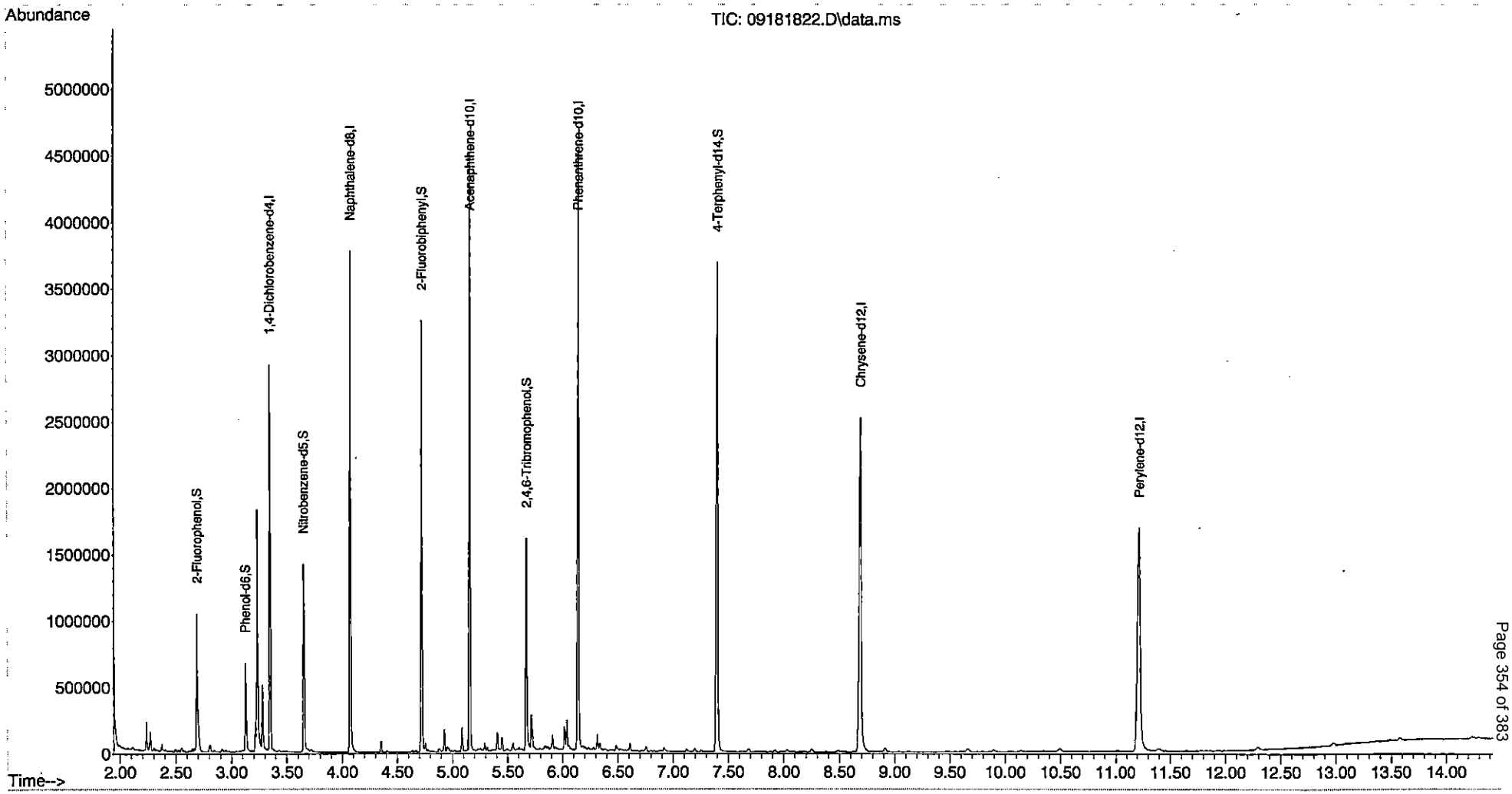
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181822.D
Acq On : 18 Sep 2018 8:48 pm
Operator : EB
Sample : SBLKW1-124572
Misc : 1X 18BAW-124572/73
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 19 08:11:50 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration



Data Path : E:\SVMS8\8A092418\
Data File : 09241810.D
Acq On : 24 Sep 2018 10:36 pm
Operator : RM
Sample : SBLKW1-124572
Misc : 1X 18BAW-124572 WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 26 16:30:05 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

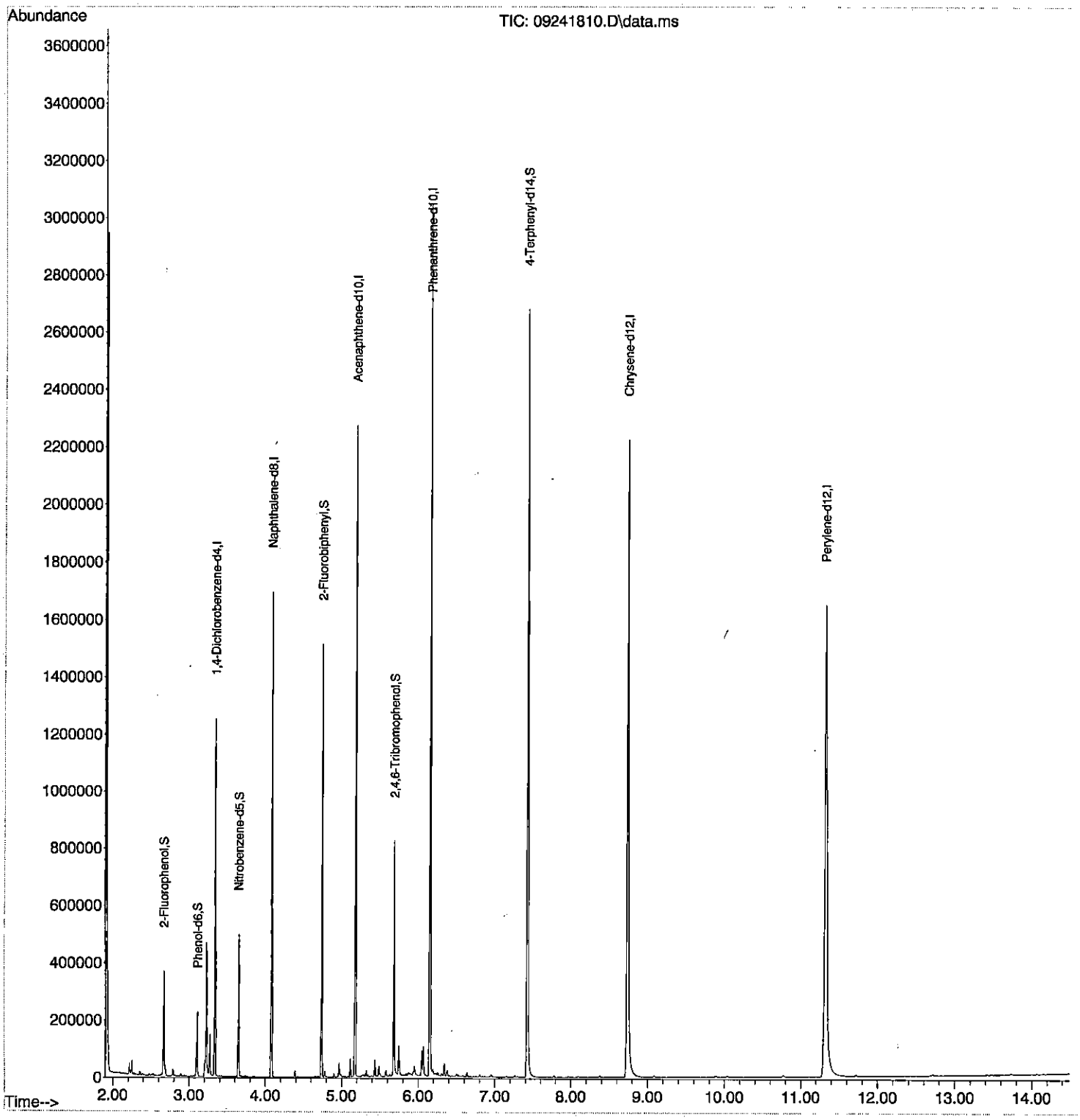
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 232701 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 617085 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.175 | 164 | 420726 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.151 | 188 | 895780 | 40.00 | ug/ml | 0.01 |
| 84) Chrysene-d12 | 8.733 | 240 | 1164603 | 40.00 | ug/ml | 0.01 |
| 94) Perylene-d12 | 11.316 | 264 | 1259175 | 40.00 | ug/ml | 0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 2.663 | 112 | 90362 | 21.44 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 42.88% | | | |
| 7) Phenol-d6 | 3.104 | 99 | 79851 | 15.53 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 31.06% | | | |
| 25) Nitrobenzene-d5 | 3.645 | 82 | 130088 | 29.11 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 58.22% | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 406014 | 27.68 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 55.36% | | | |
| 75) 2,4,6-Tribromophenol | 5.681 | 330 | 99234 | 28.72 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 57.44% | | | |
| 88) 4-Terphenyl-d14 | 7.422 | 244 | 1032701 | 34.91 | ug/ml | 0.02 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 69.82% | | | |

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\SVMS8\8A092418\
Data File : 09241810.D
Acq On : 24 Sep 2018 10:36 pm
Operator : RM
Sample : SBLKW1-124572
Misc : 1X 18BAW-124572 WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 26 16:30:05 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181823.D
Acq On : 18 Sep 2018 9:08 pm
Operator : EB
Sample : SLCSW1-124572
Misc : 1X 18BAW-124572/73
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 19 08:11:54 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 447172 | 40.00 | ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1035791 | 40.00 | ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 649206 | 40.00 | ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.137 | 188 | 1202325 | 40.00 | ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.683 | 240 | 1252536 | 40.00 | ug/ml | 0.00 |
| 92) Perylene-d12 | 11.213 | 264 | 1314392 | 40.00 | ug/ml | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 176931 | 21.17 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 42.34% | | | |
| 7) Phenol-d6 | 3.125 | 99 | 150621 | 14.15 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 28.30% | | | |
| 23) Nitrobenzene-d5 | 3.648 | 82 | 372193 | 31.15 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 62.30% | | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 615898 | 27.04 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 54.08% | | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 131242 | 35.62 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 71.24% | | | |
| 86) 4-Terphenyl-d14 | 7.395 | 244 | 989934 | 34.15 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 68.30% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Pyridine | 2.184 | 79 | 70052 | 6.22 | ug/ml | 93 |
| 4) N-Nitrosodimethylamine | 2.149 | 42 | 56064 | 8.78 | ug/ml | 86 |
| 6) Benzaldehyde | 3.119 | 77 | 90828 | 16.57 | ug/ml | 94 |
| 8) Phenol | 3.131 | 94 | 67280 | 5.78 | ug/ml | 75 |
| 9) Aniline | 3.172 | 93 | 146085m | 10.60 | ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 104215m | 10.17 | ug/ml | |
| 11) 2-Chlorophenol | 3.231 | 128 | 104535 | 11.23 | ug/ml | 98 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 109236 | 10.28 | ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 115793 | 10.60 | ug/ml | 97 |
| 14) Benzyl alcohol | 3.407 | 108 | 64139 | 11.85 | ug/ml | 94 |
| 15) 1,2-Dichlorobenzene | 3.437 | 146 | 108107 | 10.53 | ug/ml | 100 |
| 16) 2-Methylphenol | 3.460 | 107 | 80307 | 11.65 | ug/ml | 94 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 122027 | 10.40 | ug/ml | 81 |
| 18) 3&4-Methylphenol | 3.543 | 107 | 94367 | 10.34 | ug/ml# | 78 |
| 19) Acetophenone | 3.560 | 105 | 158334 | 11.55 | ug/ml | 95 |
| 20) N-Nitrosodi-n-propylamine | 3.548 | 70 | 91657 | 11.22 | ug/ml | 97 |
| 21) Hexachloroethane | 3.625 | 117 | 48425 | 9.61 | ug/ml | 89 |
| 24) Nitrobenzene | 3.660 | 123 | 53941 | 12.25 | ug/ml | 92 |
| 25) Isophorone | 3.790 | 82 | 230112 | 11.99 | ug/ml | 98 |
| 26) 2-Nitrophenol | 3.848 | 139 | 56667 | 12.06 | ug/ml | 90 |
| 27) 2,4-Dimethylphenol | 3.848 | 107 | 93974 | 9.55 | ug/ml | 98 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 123185 | 11.82 | ug/ml | 96 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 94832 | 13.08 | ug/ml | 98 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 109464 | 11.64 | ug/ml | 97 |
| 33) Naphthalene | 4.084 | 128 | 295574 | 11.06 | ug/ml | 96 |
| 34) 4-Chloroaniline | 4.113 | 127 | 133862 | 12.79 | ug/ml | 99 |
| 35) 2,6-Dichlorophenol | 4.119 | 162 | 96677 | 12.76 | ug/ml | 97 |
| 36) Hexachlorobutadiene | 4.148 | 225 | 68104 | 11.95 | ug/ml | 94 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181823.D
Acq On : 18 Sep 2018 9:08 pm
Operator : EB
Sample : SLCSW1-124572
Misc : 1X 18BAW-124572/73
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 19 08:11:54 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 37) Caprolactam | 4.325 | 55 | 10784 | 4.14 ug/ml | 88 |
| 38) 4-Chloro-3-methylphenol | 4.395 | 107 | 103164 | 12.51 ug/ml | 99 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 209835 | 11.80 ug/ml | 93 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 202252 | 11.83 ug/ml | 95 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 272678 | 12.04 ug/ml | 98 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.331 | 232 | 66438 | 14.92 ug/ml | 99 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.360 | 232 | 76429m | 16.04 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 37993 | 14.12 ug/ml | 85 |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 45689 | 13.96 ug/ml | 98 |
| 46) 1,2-Dinitrobenzene | 5.048 | 168 | 32266 | 14.42 ug/ml | 80 |
| 48) Hexachlorocyclopentadiene | 4.590 | 237 | 45189 | 9.75 ug/ml | 96 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 113265 | 11.70 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 75582 | 13.25 ug/ml | 95 |
| 51) 2,4,5-Trichlorophenol | 4.701 | 196 | 79980 | 13.18 ug/ml | 97 |
| 53) 2-Chloronaphthalene | 4.801 | 162 | 216737 | 11.74 ug/ml | 96 |
| 54) 2-Nitroaniline | 4.866 | 65 | 75046 | 11.94 ug/ml | 98 |
| 55) Dimethylphthalate | 4.966 | 163 | 284457 | 12.95 ug/ml | 99 |
| 56) Acenaphthylene | 5.066 | 152 | 324878 | 11.54 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.007 | 165 | 61966 | 12.73 ug/ml | 89 |
| 58) 3-Nitroaniline | 5.125 | 138 | 58220 | 11.85 ug/ml | 93 |
| 59) Acenaphthene | 5.172 | 154 | 200451 | 11.37 ug/ml | 91 |
| 60) 2,4-Dinitrophenol | 5.195 | 184 | 24793 | 11.35 ug/ml# | 97 |
| 61) Dibenzofuran | 5.284 | 168 | 320123 | 11.91 ug/ml | 93 |
| 62) 4-Nitrophenol | 5.242 | 65 | 12252 | 5.86 ug/ml# | 1 |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 84831 | 13.43 ug/ml | 91 |
| 64) Diethylphthalate | 5.407 | 149 | 298763 | 13.21 ug/ml | 99 |
| 65) Fluorene | 5.507 | 166 | 268351 | 12.69 ug/ml | 98 |
| 66) 4-Chlorophenyl phenyl ... | 5.495 | 204 | 140021 | 13.20 ug/ml | 100 |
| 67) 4-Nitroaniline | 5.525 | 138 | 59895m | 11.84 ug/ml | |
| 68) Atrazine | 5.919 | 200 | 92686 | 14.53 ug/ml | 96 |
| 70) 4,6-Dinitro-2-methylph... | 5.537 | 198 | 52287 | 15.42 ug/ml | 98 |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 240868 | 13.23 ug/ml | 99 |
| 72) 1,2-Diphenylhydrazine | 5.595 | 77 | 324132 | 11.10 ug/ml | 97 |
| 74) 4-Bromophenyl phenyl e... | 5.819 | 248 | 83539 | 14.63 ug/ml | 98 |
| 75) Hexachlorobenzene | 5.872 | 284 | 98446 | 15.64 ug/ml | 99 |
| 76) Pentachlorophenol | 6.007 | 266 | 43323 | 13.63 ug/ml | 96 |
| 77) Phenanthrene | 6.154 | 178 | 415255 | 12.42 ug/ml | 99 |
| 78) Anthracene | 6.189 | 178 | 425619 | 13.76 ug/ml | 99 |
| 79) Carbazole | 6.301 | 167 | 379129 | 13.46 ug/ml | 96 |
| 80) Di-n-butylphthalate | 6.519 | 149 | 474680 | 13.82 ug/ml | 99 |
| 81) Fluoranthene | 7.060 | 202 | 485159 | 14.55 ug/ml | 96 |
| 85) Pyrene | 7.266 | 202 | 501561 | 14.22 ug/ml | 95 |
| 87) Butylbenzylphthalate | 7.919 | 149 | 198761 | 12.43 ug/ml | 94 |
| 88) Benzo[a]anthracene | 8.666 | 228 | 501463 | 14.63 ug/ml | 98 |
| 89) 3,3'-Dichlorobenzidine | 8.630 | 252 | 145720 | 12.83 ug/ml | 98 |
| 90) Chrysene | 8.725 | 228 | 503355 | 13.77 ug/ml | 96 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 297237 | 13.70 ug/ml | 100 |
| 93) Di-n-octylphthalate | 9.825 | 149 | 396374 | 14.34 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.472 | 252 | 502471 | 14.69 ug/ml | 97 |
| 95) Benzo(k)fluoranthene | 10.525 | 252 | 550367 | 15.01 ug/ml | 97 |
| 96) Benzo(a)pyrene | 11.095 | 252 | 492757 | 15.07 ug/ml | 97 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181823.D
Acq On : 18 Sep 2018 9:08 pm
Operator : EB
Sample : SLCSW1-124572
Misc : 1X 18BAW-124572/73
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 19 08:11:54 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

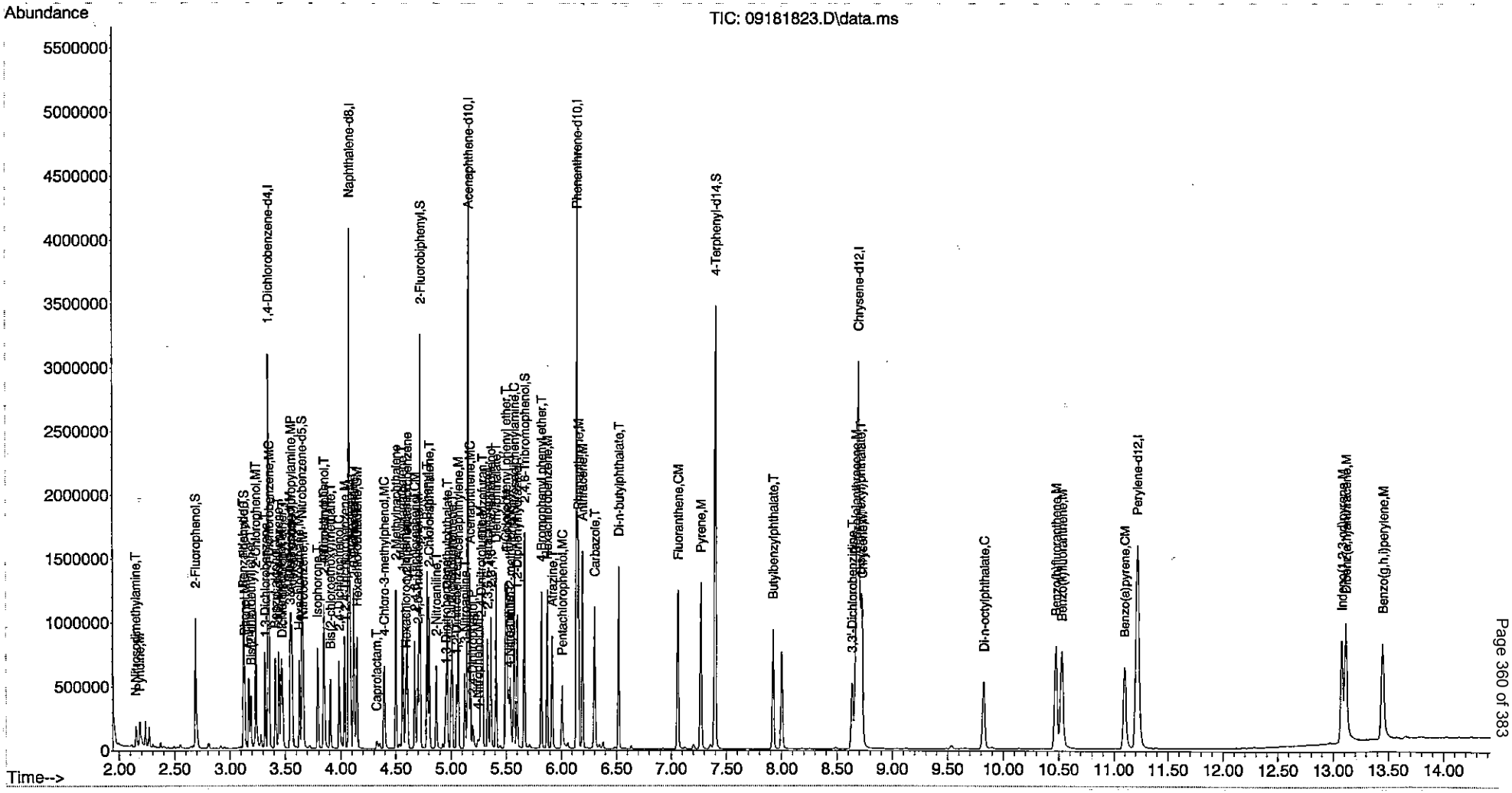
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 97) Indeno(1,2,3-cd)pyrene | 13.077 | 276 | 492449m | 15.35 ug/ml | |
| 98) Dibenz(a,h)anthracene | 13.113 | 278 | 552263 | 15.44 ug/ml | 96 |
| 99) Benzo(g,h,i)perylene | 13.448 | 276 | 570902 | 15.29 ug/ml | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181823.D
Acq On : 18 Sep 2018 9:08 pm
Operator : EB
Sample : SLCSW1-124572
Misc : 1X 18BAW-124572/73
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 19 08:11:54 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration



Data Path : E:\SVMS8\8A092418\
Data File : 09241811.D
Acq On : 24 Sep 2018 10:56 pm
Operator : RM
Sample : SLCSW1-124572
Misc : 1X 18BAW-124572 WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 26 16:30:09 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 467229 | 40.00 ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1162374 | 40.00 ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.175 | 164 | 741825 | 40.00 ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.151 | 188 | 1459294 | 40.00 ug/ml | 0.01 |
| 84) Chrysene-d12 | 8.739 | 240 | 1788757 | 40.00 ug/ml | 0.02 |
| 94) Perylene-d12 | 11.322 | 264 | 1752242 | 40.00 ug/ml | 0.02 |
| System Monitoring Compounds | | | | | |
| 5) 2-Fluorophenol | 2.663 | 112 | 180615 | 21.34 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 42.68% | | |
| 7) Phenol-d6 | 3.099 | 99 | 160996 | 15.59 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 31.18% | | |
| 25) Nitrobenzene-d5 | 3.646 | 82 | 249754 | 29.67 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 59.34% | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 704807 | 27.25 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 54.50% | | |
| 75) 2,4,6-Tribromophenol | 5.681 | 330 | 191563 | 33.38 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 66.76% | | |
| 88) 4-Terphenyl-d14 | 7.428 | 244 | 1378887 | 30.56 ug/ml | 0.02 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 61.12% | | |
| Target Compounds | | | | | Qvalue |
| 3) Pyridine | 2.152 | 79 | 47099 | 5.83 ug/ml | 97 |
| 4) N-Nitrosodimethylamine | 2.122 | 42 | 16655 | 7.16 ug/ml | 99 |
| 6) Benzaldehyde | 3.104 | 77 | 65380 | 14.76 ug/ml | 88 |
| 8) Phenol | 3.110 | 94 | 66382 | 6.15 ug/ml | 96 |
| 9) Aniline | 3.152 | 93 | 151035 | 10.61 ug/ml | 98 |
| 10) Bis(2-chloroethyl)ether | 3.175 | 93 | 105767 | 11.83 ug/ml | 92 |
| 11) 2-Chlorophenol | 3.216 | 128 | 120608 | 12.39 ug/ml | 95 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 122935 | 10.83 ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.346 | 146 | 125823 | 10.94 ug/ml | 100 |
| 14) Benzyl alcohol | 3.399 | 108 | 69808 | 12.02 ug/ml | 94 |
| 15) 1,2-Dichlorobenzene | 3.434 | 146 | 121659 | 11.10 ug/ml | 98 |
| 16) 2-Methylphenol | 3.446 | 107 | 84896 | 11.32 ug/ml | 98 |
| 17) Dichloroisopropyl ether | 3.469 | 45 | 75779 | 9.69 ug/ml | 89 |
| 18) 3-Methylphenol | 3.528 | 107 | 105697m | 11.01 ug/ml | |
| 19) 4-Methylphenol | 3.528 | 107 | 105779m | 11.02 ug/ml | |
| 20) 3&4-Methylphenol | 3.528 | 107 | 106351m | 11.07 ug/ml | |
| 21) Acetophenone | 3.551 | 105 | 159441 | 12.21 ug/ml | 94 |
| 22) N-Nitrosodi-n-propylamine | 3.540 | 70 | 65441 | 11.67 ug/ml | 96 |
| 23) Hexachloroethane | 3.628 | 117 | 41961 | 10.64 ug/ml | 92 |
| 26) Nitrobenzene | 3.657 | 77 | 96536 | 11.54 ug/ml | 93 |
| 27) Isophorone | 3.793 | 82 | 200741 | 11.42 ug/ml | 96 |
| 28) 2-Nitrophenol | 3.840 | 139 | 61132 | 13.51 ug/ml | 90 |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 82602 | 8.92 ug/ml | 94 |
| 30) Bis(2-chloroethoxy)met | 3.904 | 93 | 136596 | 11.90 ug/ml | 98 |
| 32) 2,4-Dichlorophenol | 3.981 | 162 | 107731 | 12.98 ug/ml | 98 |
| 33) 1,2,4-Trichlorobenzene | 4.040 | 180 | 114552 | 11.57 ug/ml | 99 |
| 35) Naphthalene | 4.093 | 128 | 386533 | 12.08 ug/ml# | 12 |
| 36) 4-Chloroaniline | 4.116 | 127 | 173238 | 13.56 ug/ml | 99 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241811.D
Acq On : 24 Sep 2018 10:56 pm
Operator : RM
Sample : SLCSW1-124572
Misc : 1X 18BAW-124572 WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 26 16:30:09 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 107096 | 12.52 ug/ml | 99 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 62616 | 10.97 ug/ml | 99 |
| 39) Caprolactam | 4.328 | 55 | 9970 | 3.51 ug/ml | 95 |
| 40) 4-Chloro-3-methylphenol | 4.393 | 107 | 102481 | 12.95 ug/ml | 95 |
| 41) 2-Methylnaphthalene | 4.516 | 142 | 270711 | 12.36 ug/ml | 96 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 259665 | 12.39 ug/ml | 98 |
| 43) 1,2,4,5-Tetrachloroben... | 4.616 | 216 | 132838 | 12.11 ug/ml | 100 |
| 44) 1,1-Biphenyl | 4.804 | 154 | 340216 | 12.64 ug/ml | 99 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.351 | 232 | 81662 | 14.21 ug/ml | 99 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.375 | 232 | 93471 | 14.49 ug/ml | 98 |
| 47) 1,4-Dinitrobenzene | 4.963 | 168 | 50760 | 18.74 ug/ml | 87 |
| 48) 1,3-Dinitrobenzene | 5.010 | 168 | 61559 | 16.92 ug/ml | 85 |
| 49) 1,2-Dinitrobenzene | 5.063 | 168 | 42461 | 15.55 ug/ml# | 83 |
| 51) Hexachlorocyclopentadiene | 4.610 | 237 | 55252 | 8.80 ug/ml | 100 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 82315 | 11.87 ug/ml | 99 |
| 53) 2,4,5-Trichlorophenol | 4.704 | 196 | 90644 | 12.64 ug/ml | 99 |
| 55) 2-Chloronaphthalene | 4.822 | 162 | 261910 | 12.02 ug/ml | 99 |
| 56) 2-Nitroaniline | 4.875 | 65 | 50192 | 12.20 ug/ml | 86 |
| 57) Dimethylphthalate | 4.987 | 163 | 337299 | 13.61 ug/ml | 100 |
| 58) Acenaphthylene | 5.087 | 152 | 426805 | 12.79 ug/ml | 96 |
| 59) 2,6-Dinitrotoluene | 5.028 | 165 | 79966 | 13.87 ug/ml | 92 |
| 60) 3-Nitroaniline | 5.134 | 138 | 88795 | 14.54 ug/ml | 89 |
| 61) Acenaphthene | 5.193 | 154 | 273058 | 12.32 ug/ml | 83 |
| 62) 2,4-Dinitrophenol | 5.204 | 184 | 20591 | 14.33 ug/ml | 92 |
| 63) Dibenzofuran | 5.304 | 168 | 413011 | 12.72 ug/ml | 97 |
| 64) 4-Nitrophenol | 5.228 | 65 | 15580 | 6.17 ug/ml | 84 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 110008 | 15.22 ug/ml | 94 |
| 66) Diethylphthalate | 5.434 | 149 | 334206 | 14.14 ug/ml | 99 |
| 67) Fluorene | 5.528 | 166 | 342470 | 13.64 ug/ml | 97 |
| 68) 4-Chlorophenyl phenyl | 5.516 | 204 | 172324 | 13.17 ug/ml | 97 |
| 69) 4-Nitroaniline | 5.528 | 138 | 91832 | 14.03 ug/ml | 96 |
| 70) Atrazine | 5.934 | 200 | 112919 | 14.74 ug/ml | 97 |
| 72) 4,6-Dinitro-2-methylph | 5.545 | 198 | 53560 | 18.27 ug/ml | 92 |
| 73) N-Nitrosodiphenylamine | 5.593 | 169 | 315604 | 13.14 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.622 | 77 | 245537 | 11.11 ug/ml | 93 |
| 76) 4-Bromophenyl phenyl e | 5.840 | 248 | 116061 | 13.32 ug/ml | 96 |
| 77) Hexachlorobenzene | 5.887 | 284 | 143341 | 13.35 ug/ml | 96 |
| 78) Pentachlorophenol | 6.016 | 266 | 63686 | 13.23 ug/ml | 98 |
| 79) Phenanthrene | 6.169 | 178 | 562596 | 13.12 ug/ml | 75 |
| 80) Anthracene | 6.204 | 178 | 568397 | 14.18 ug/ml | 99 |
| 81) Carbazole | 6.310 | 167 | 558339 | 14.90 ug/ml | 98 |
| 82) Di-n-butylphthalate | 6.540 | 149 | 582578 | 13.52 ug/ml | 100 |
| 83) Fluoranthene | 7.075 | 202 | 672106 | 14.94 ug/ml | 97 |
| 87) Pyrene | 7.287 | 202 | 705092 | 12.71 ug/ml | 95 |
| 89) Butylbenzylphthalate | 7.975 | 149 | 229856 | 11.28 ug/ml | 94 |
| 90) Benzo[a]anthracene | 8.722 | 228 | 729061 | 14.74 ug/ml | 90 |
| 91) 3,3'-Dichlorobenzidine | 8.692 | 252 | 169740 | 11.67 ug/ml | 99 |
| 92) Chrysene | 8.781 | 228 | 702325 | 14.40 ug/ml | 95 |
| 93) Bis(2-ethylhexyl)phtha | 8.804 | 149 | 297541 | 12.11 ug/ml | 99 |
| 95) Di-n-octylphthalate | 9.963 | 149 | 313722 | 12.92 ug/ml | 96 |
| 96) Benzo(b)fluoranthene | 10.569 | 252 | 629135 | 14.45 ug/ml | 98 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241811.D
Acq On : 24 Sep 2018 10:56 pm
Operator : RM
Sample : SLCSW1-124572
Misc : 1X 18BAW-124572 WATER
ALS Vial : 10 Sample Multiplier: 1

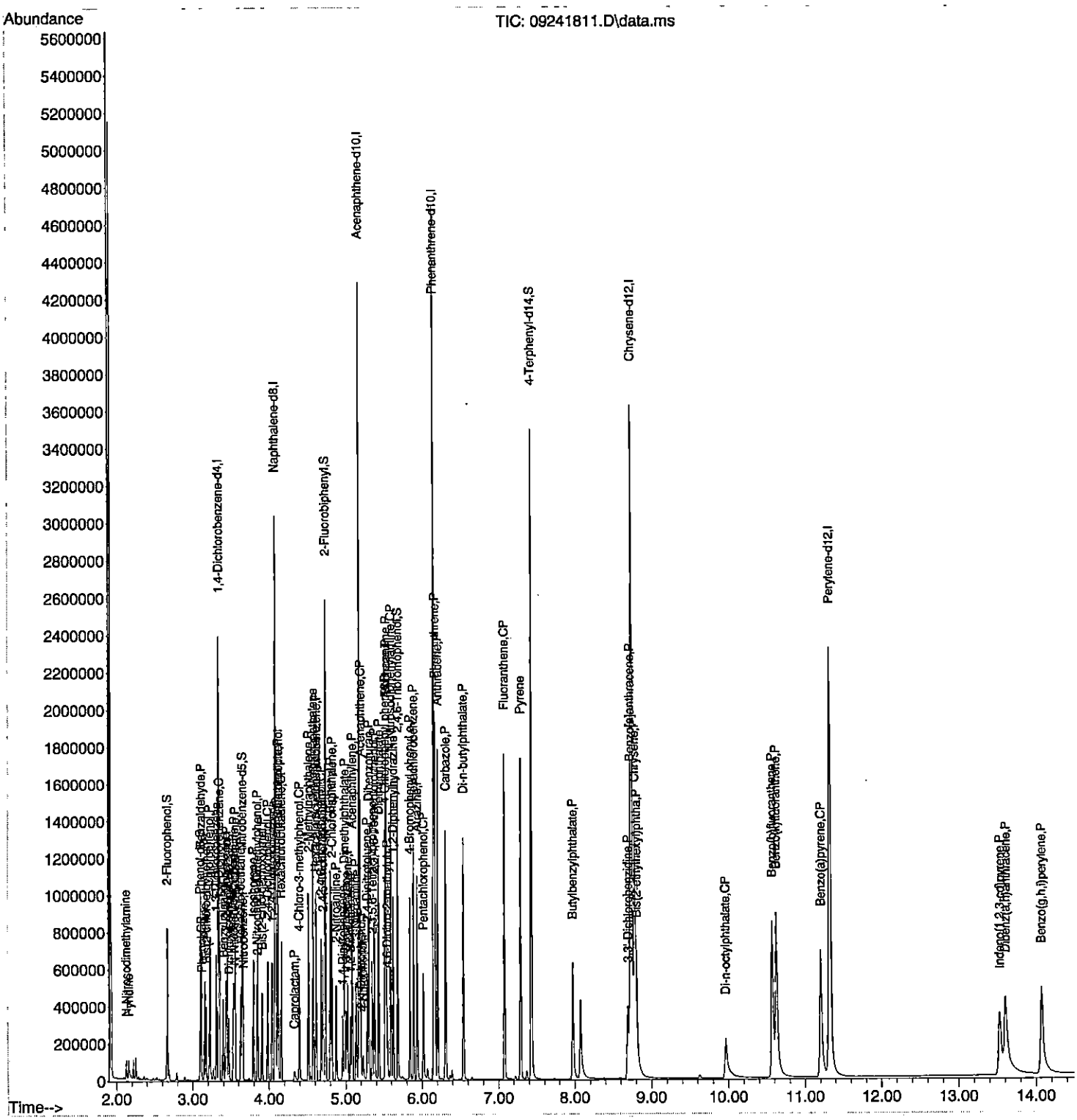
Quant Time: Sep 26 16:30:09 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 97) Benzo(k)fluoranthene | 10.622 | 252 | 707627 | 14.71 ug/ml | 85 |
| 98) Benzo(a)pyrene | 11.204 | 252 | 601388 | 14.43 ug/ml | 86 |
| 99) Indeno(1,2,3-cd)pyrene | 13.533 | 276 | 383805 | 13.21 ug/ml | 70 |
| 100) Dibenz(a,h)anthracene | 13.610 | 278 | 435712 | 13.44 ug/ml | 87 |
| 101) Benzo(g,h,i)perylene | 14.074 | 276 | 528677 | 14.63 ug/ml | 71 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\SVMS8\8A092418\
Data File : 09241811.D
Acq On : 24 Sep 2018 10:56 pm
Operator : RM
Sample : SLCSW1-124572
Misc : 1X 18BAW-124572 WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 26 16:30:09 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181827.D
Acq On : 18 Sep 2018 10:30 pm
Operator : EB
Sample : 1809614-01A MS
Misc : 1X 18BAW-124572/73
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 19 08:12:10 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.348 | 150 | 449893 | 40.00 ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1042151 | 40.00 ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 647791 | 40.00 ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.142 | 188 | 1226263 | 40.00 ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.689 | 240 | 1367736 | 40.00 ug/ml | 0.00 |
| 92) Perylene-d12 | 11.207 | 264 | 1435460 | 40.00 ug/ml | -0.02 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 160206 | 19.02 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 38.04% | | |
| 7) Phenol-d6 | 3.125 | 99 | 131444 | 12.27 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 24.54% | | |
| 23) Nitrobenzene-d5 | 3.648 | 82 | 361380 | 30.12 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 60.24% | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 664302 | 29.05 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 58.10% | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 166546 | 41.78 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 83.56% | | |
| 86) 4-Terphenyl-d14 | 7.395 | 244 | 1256232 | 39.14 ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 78.28% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Pyridine | 2.184 | 79 | 63502 | 5.62 ug/ml | 91 |
| 4) N-Nitrosodimethylamine | 2.154 | 42 | 48782 | 7.60 ug/ml | 83 |
| 6) Benzaldehyde | 3.119 | 77 | 105106 | 19.06 ug/ml# | 88 |
| 8) Phenol | 3.131 | 94 | 573356m | 53.87 ug/ml | |
| 9) Aniline | 3.172 | 93 | 122039m | 8.82 ug/ml | |
| 10) Bis(2-chloroethyl)ether | 3.190 | 93 | 98480m | 9.52 ug/ml | |
| 11) 2-Chlorophenol | 3.237 | 128 | 102453 | 10.94 ug/ml | 99 |
| 12) 1,3-Dichlorobenzene | 3.319 | 146 | 109555 | 10.25 ug/ml | 100 |
| 13) 1,4-Dichlorobenzene | 3.354 | 146 | 115734 | 10.53 ug/ml | 98 |
| 14) Benzyl alcohol | 3.407 | 108 | 55721 | 10.27 ug/ml | 88 |
| 15) 1,2-Dichlorobenzene | 3.442 | 146 | 118285 | 11.48 ug/ml | 98 |
| 16) 2-Methylphenol | 3.460 | 107 | 77177 | 11.13 ug/ml# | 46 |
| 17) Dichloroisopropyl ether | 3.472 | 45 | 110607 | 9.34 ug/ml# | 49 |
| 18) 3&4-Methylphenol | 3.542 | 107 | 101455m | 11.04 ug/ml | |
| 19) Acetophenone | 3.560 | 105 | 156176 | 11.33 ug/ml | 96 |
| 20) N-Nitrosodi-n-propylamine | 3.548 | 70 | 87921 | 10.70 ug/ml | 95 |
| 21) Hexachloroethane | 3.625 | 117 | 48688 | 9.60 ug/ml | 84 |
| 24) Nitrobenzene | 3.660 | 123 | 50804 | 11.49 ug/ml | 86 |
| 25) Isophorone | 3.790 | 82 | 225006 | 11.66 ug/ml | 98 |
| 26) 2-Nitrophenol | 3.842 | 139 | 56150 | 11.88 ug/ml | 87 |
| 27) 2,4-Dimethylphenol | 3.848 | 107 | 119688 | 12.00 ug/ml | 96 |
| 28) Bis(2-chloroethoxy)met... | 3.907 | 93 | 119156 | 11.36 ug/ml | 96 |
| 30) 2,4-Dichlorophenol | 3.984 | 162 | 94814 | 13.00 ug/ml | 96 |
| 31) 1,2,4-Trichlorobenzene | 4.037 | 180 | 108269 | 11.45 ug/ml | 99 |
| 33) Naphthalene | 4.084 | 128 | 420905 | 15.70 ug/ml | 94 |
| 34) 4-Chloroaniline | 4.113 | 127 | 125115 | 11.91 ug/ml | 99 |
| 35) 2,6-Dichlorophenol | 4.119 | 162 | 96604 | 12.68 ug/ml | 96 |
| 36) Hexachlorobutadiene | 4.148 | 225 | 69350 | 12.09 ug/ml | 93 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181827.D
Acq On : 18 Sep 2018 10:30 pm
Operator : EB
Sample : 1809614-01A MS
Misc : 1X 18BAW-124572/73
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 19 08:12:10 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 37) Caprolactam | 4.331 | 55 | 14062 | 5.10 ug/ml | 95 |
| 38) 4-Chloro-3-methylphenol | 4.395 | 107 | 111775 | 13.43 ug/ml | 99 |
| 39) 2-Methylnaphthalene | 4.501 | 142 | 207954 | 11.62 ug/ml | 90 |
| 40) 1-Methylnaphthalene | 4.560 | 142 | 198938 | 11.57 ug/ml | 93 |
| 41) 1,1-Biphenyl | 4.784 | 154 | 270057 | 11.86 ug/ml | 98 |
| 42) 2,3,5,6-Tetrachlorophenol | 5.331 | 232 | 82684 | 17.97 ug/ml | 99 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.360 | 232 | 84425m | 17.42 ug/ml | |
| 44) 1,3-Dinitrobenzene | 4.954 | 168 | 40914 | 15.01 ug/ml | 87 |
| 45) 1,4-Dinitrobenzene | 5.001 | 168 | 49716 | 15.02 ug/ml | 98 |
| 46) 1,2-Dinitrobenzene | 5.048 | 168 | 34944 | 15.47 ug/ml# | 75 |
| 48) Hexachlorocyclopentadiene | 4.589 | 237 | 39086 | 8.61 ug/ml | 95 |
| 49) 1,2,4,5-Tetrachloroben... | 4.601 | 216 | 110553 | 11.44 ug/ml | 99 |
| 50) 2,4,6-Trichlorophenol | 4.672 | 196 | 80806 | 14.12 ug/ml | 97 |
| 51) 2,4,5-Trichlorophenol | 4.701 | 196 | 91915 | 15.03 ug/ml | 98 |
| 53) 2-Chloronaphthalene | 4.801 | 162 | 215383 | 11.69 ug/ml | 96 |
| 54) 2-Nitroaniline | 4.866 | 65 | 86925 | 13.77 ug/ml | 97 |
| 55) Dimethylphthalate | 4.966 | 163 | 298250 | 13.61 ug/ml | 99 |
| 56) Acenaphthylene | 5.066 | 152 | 335838 | 11.95 ug/ml | 99 |
| 57) 2,6-Dinitrotoluene | 5.013 | 165 | 67584 | 13.86 ug/ml | 90 |
| 58) 3-Nitroaniline | 5.125 | 138 | 67461 | 13.57 ug/ml | 97 |
| 59) Acenaphthene | 5.172 | 154 | 236272 | 13.43 ug/ml | 92 |
| 60) 2,4-Dinitrophenol | 5.195 | 184 | 41833 | 16.92 ug/ml# | 91 |
| 61) Dibenzofuran | 5.284 | 168 | 333743 | 12.45 ug/ml | 97 |
| 62) 4-Nitrophenol | 5.242 | 65 | 28598m | 9.89 ug/ml | |
| 63) 2,4-Dinitrotoluene | 5.272 | 165 | 98975 | 15.55 ug/ml | 97 |
| 64) Diethylphthalate | 5.407 | 149 | 339162 | 15.03 ug/ml | 100 |
| 65) Fluorene | 5.507 | 166 | 278266 | 13.19 ug/ml | 99 |
| 66) 4-Chlorophenyl phenyl ... | 5.495 | 204 | 151231 | 14.22 ug/ml | 98 |
| 67) 4-Nitroaniline | 5.519 | 138 | 76547 | 14.61 ug/ml# | 71 |
| 68) Atrazine | 5.925 | 200 | 114461 | 17.69 ug/ml | 96 |
| 70) 4,6-Dinitro-2-methylph... | 5.536 | 198 | 68518 | 19.14 ug/ml | 90 |
| 71) N-Nitrosodiphenylamine | 5.572 | 169 | 271047 | 14.54 ug/ml | 99 |
| 72) 1,2-Diphenylhydrazine | 5.601 | 77 | 342244 | 11.49 ug/ml | 97 |
| 74) 4-Bromophenyl phenyl e... | 5.819 | 248 | 94366 | 16.08 ug/ml | 99 |
| 75) Hexachlorobenzene | 5.872 | 284 | 107225 | 16.60 ug/ml | 97 |
| 76) Pentachlorophenol | 6.007 | 266 | 74637 | 21.14 ug/ml | 97 |
| 77) Phenanthrene | 6.154 | 178 | 493728 | 14.48 ug/ml | 99 |
| 78) Anthracene | 6.189 | 178 | 497918 | 15.67 ug/ml | 99 |
| 79) Carbazole | 6.301 | 167 | 473910 | 16.36 ug/ml | 97 |
| 80) Di-n-butylphthalate | 6.519 | 149 | 611604 | 17.21 ug/ml | 99 |
| 81) Fluoranthene | 7.060 | 202 | 621263 | 17.97 ug/ml | 95 |
| 85) Pyrene | 7.266 | 202 | 646560 | 16.79 ug/ml | 95 |
| 87) Butylbenzylphthalate | 7.925 | 149 | 309741 | 17.33 ug/ml | 94 |
| 88) Benzo[a]anthracene | 8.672 | 228 | 658574 | 17.54 ug/ml | 97 |
| 89) 3,3'-Dichlorobenzidine | 8.636 | 252 | 39653 | 3.55 ug/ml | 96 |
| 90) Chrysene | 8.725 | 228 | 632315 | 15.84 ug/ml | 96 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 430211 | 17.84 ug/ml | 99 |
| 93) Di-n-octylphthalate | 9.824 | 149 | 639644 | 20.06 ug/ml | 99 |
| 94) Benzo(b)fluoranthene | 10.471 | 252 | 667163 | 17.67 ug/ml | 97 |
| 95) Benzo(k)fluoranthene | 10.524 | 252 | 675312 | 16.79 ug/ml | 98 |
| 96) Benzo(a)pyrene | 11.095 | 252 | 638538 | 17.69 ug/ml | 97 |

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181827.D
Acq On : 18 Sep 2018 10:30 pm
Operator : EB
Sample : 1809614-01A MS
Misc : 1X 18BAW-124572/73
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 19 08:12:10 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

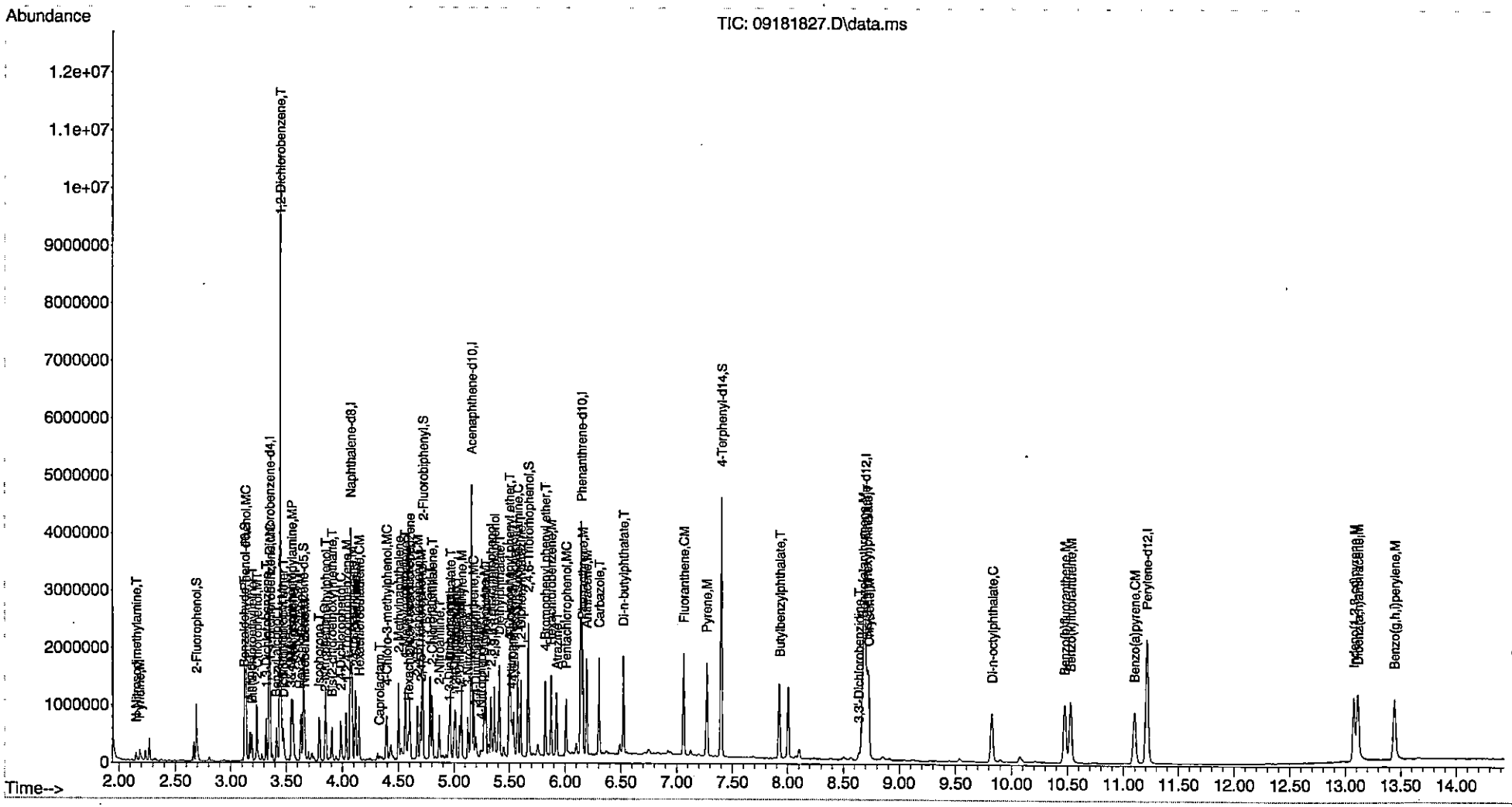
| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 97) | Indeno(1,2,3-cd)pyrene | 13.077 | 276 | 637526m | 17.96 ug/ml | |
| 98) | Dibenz(a,h)anthracene | 13.112 | 278 | 687168 | 17.45 ug/ml | 95 |
| 99) | Benzo(g,h,i)perylene | 13.442 | 276 | 719363 | 17.52 ug/ml | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181827.D
Acq On : 18 Sep 2018 10:30 pm
Operator : EB
Sample : 1809614-01A MS
Misc : 1X 18BAW-124572/73
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 19 08:12:10 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS8\8A092418\
Data File : 09241812.D
Acq On : 24 Sep 2018 11:16 pm
Operator : RM
Sample : 1809614-01A MS
Misc : 1X 18BAW-124572 WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 26 16:30:12 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 485727 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1193411 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.175 | 164 | 737974 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.151 | 188 | 1415343 | 40.00 | ug/ml | 0.01 |
| 84) Chrysene-d12 | 8.734 | 240 | 1428375 | 40.00 | ug/ml | 0.01 |
| 94) Perylene-d12 | 11.316 | 264 | 1158238 | 40.00 | ug/ml | 0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.663 | 112 | 170480 | 19.38 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 38.76% | | | |
| 7) Phenol-d6 | 3.104 | 99 | 142693 | 13.29 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 26.58% | | | |
| 25) Nitrobenzene-d5 | 3.646 | 82 | 252834 | 29.25 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 58.50% | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 754067 | 29.31 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 58.62% | | | |
| 75) 2,4,6-Tribromophenol | 5.681 | 330 | 233867 | 40.77 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 81.54% | | | |
| 88) 4-Terphenyl-d14 | 7.422 | 244 | 1485159 | 40.57 | ug/ml | 0.02 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 81.14% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Pyridine | 2.157 | 79 | 49348 | 5.87 | ug/ml | 98 |
| 4) N-Nitrosodimethylamine | 2.122 | 42 | 14929 | 6.18 | ug/ml | 98 |
| 6) Benzaldehyde | 3.104 | 77 | 76374 | 16.58 | ug/ml | 92 |
| 8) Phenol | 3.110 | 94 | 531079 | 47.33 | ug/ml | 96 |
| 9) Aniline | 3.152 | 93 | 121107 | 8.18 | ug/ml | 99 |
| 10) Bis(2-chloroethyl)ether | 3.175 | 93 | 106545 | 11.47 | ug/ml | 89 |
| 11) 2-Chlorophenol | 3.216 | 128 | 122510 | 12.11 | ug/ml | 95 |
| 12) 1,3-Dichlorobenzene | 3.304 | 146 | 131042 | 11.11 | ug/ml | 99 |
| 13) 1,4-Dichlorobenzene | 3.346 | 146 | 131877 | 11.02 | ug/ml | 99 |
| 14) Benzyl alcohol | 3.399 | 108 | 67506 | 11.18 | ug/ml | 94 |
| 15) 1,2-Dichlorobenzene | 3.434 | 146 | 117136 | 10.28 | ug/ml | 99 |
| 16) 2-Methylphenol | 3.446 | 107 | 81262 | 10.43 | ug/ml# | 83 |
| 17) Dichloroisopropyl ether | 3.469 | 45 | 73757 | 9.07 | ug/ml | 88 |
| 18) 3-Methylphenol | 3.528 | 107 | 101783 | 10.20 | ug/ml# | 86 |
| 19) 4-Methylphenol | 3.528 | 107 | 101783 | 10.20 | ug/ml# | 86 |
| 20) 3&4-Methylphenol | 3.528 | 107 | 101783 | 10.19 | ug/ml# | 86 |
| 21) Acetophenone | 3.552 | 105 | 159889 | 11.78 | ug/ml | 95 |
| 22) N-Nitrosodi-n-propylamine | 3.540 | 70 | 64892 | 11.13 | ug/ml | 96 |
| 23) Hexachloroethane | 3.628 | 117 | 45240 | 11.03 | ug/ml | 94 |
| 26) Nitrobenzene | 3.657 | 77 | 93818 | 10.92 | ug/ml | 91 |
| 27) Isophorone | 3.793 | 82 | 201896 | 11.18 | ug/ml | 95 |
| 28) 2-Nitrophenol | 3.840 | 139 | 62279 | 13.41 | ug/ml | 93 |
| 29) 2,4-Dimethylphenol | 3.846 | 107 | 117196 | 12.33 | ug/ml | 96 |
| 30) Bis(2-chloroethoxy)met | 3.910 | 93 | 136524 | 11.59 | ug/ml | 98 |
| 32) 2,4-Dichlorophenol | 3.981 | 162 | 114015 | 13.38 | ug/ml | 98 |
| 33) 1,2,4-Trichlorobenzene | 4.040 | 180 | 121049 | 11.91 | ug/ml | 99 |
| 35) Naphthalene | 4.093 | 128 | 553790 | 16.85 | ug/ml# | 13 |
| 36) 4-Chloroaniline | 4.116 | 127 | 159177 | 12.14 | ug/ml | 98 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241812.D
Acq On : 24 Sep 2018 11:16 pm
Operator : RM
Sample : 1809614-01A MS
Misc : 1X 18BAW-124572 WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 26 16:30:12 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 37) 2,6-Dichlorophenol | 4.116 | 162 | 112153 | 12.77 ug/ml | 98 |
| 38) Hexachlorobutadiene | 4.157 | 225 | 67934 | 11.59 ug/ml | 98 |
| 39) Caprolactam | 4.346 | 55 | 11494 | 3.92 ug/ml | 94 |
| 40) 4-Chloro-3-methylphenol | 4.399 | 107 | 116622 | 14.35 ug/ml | 94 |
| 41) 2-Methylnaphthalene | 4.510 | 142 | 277888 | 12.36 ug/ml | 97 |
| 42) 1-Methylnaphthalene | 4.575 | 142 | 264045 | 12.27 ug/ml | 98 |
| 43) 1,2,4,5-Tetrachloroben... | 4.616 | 216 | 136487 | 12.12 ug/ml | 100 |
| 44) 1,1-Biphenyl | 4.799 | 154 | 347146 | 12.56 ug/ml | 99 |
| 45) 2,3,5,6-Tetrachlorophenol | 5.346 | 232 | 104683 | 17.48 ug/ml | 99 |
| 46) 2,3,4,6-Tetrachlorophenol | 5.375 | 232 | 111242 | 16.75 ug/ml | 98 |
| 47) 1,4-Dinitrobenzene | 4.963 | 168 | 54725 | 19.53 ug/ml | 84 |
| 48) 1,3-Dinitrobenzene | 5.010 | 168 | 66331 | 17.68 ug/ml | 83 |
| 49) 1,2-Dinitrobenzene | 5.063 | 168 | 45845 | 16.33 ug/ml# | 84 |
| 51) Hexachlorocyclopentadiene | 4.610 | 237 | 48111 | 7.76 ug/ml | 100 |
| 52) 2,4,6-Trichlorophenol | 4.681 | 196 | 94202 | 13.61 ug/ml | 98 |
| 53) 2,4,5-Trichlorophenol | 4.704 | 196 | 107501 | 14.98 ug/ml | 99 |
| 55) 2-Chloronaphthalene | 4.822 | 162 | 265988 | 12.27 ug/ml | 99 |
| 56) 2-Nitroaniline | 4.875 | 65 | 56489 | 13.73 ug/ml | 85 |
| 57) Dimethylphthalate | 4.987 | 163 | 360913 | 14.64 ug/ml | 100 |
| 58) Acenaphthylene | 5.087 | 152 | 428392 | 12.90 ug/ml | 96 |
| 59) 2,6-Dinitrotoluene | 5.028 | 165 | 86772 | 15.09 ug/ml | 92 |
| 60) 3-Nitroaniline | 5.134 | 138 | 94541 | 15.52 ug/ml | 89 |
| 61) Acenaphthene | 5.193 | 154 | 284458 | 12.90 ug/ml | 81 |
| 62) 2,4-Dinitrophenol | 5.204 | 184 | 41094 | 23.46 ug/ml | 94 |
| 63) Dibenzofuran | 5.304 | 168 | 427111 | 13.22 ug/ml | 97 |
| 64) 4-Nitrophenol | 5.228 | 65 | 17142 | 6.77 ug/ml | 86 |
| 65) 2,4-Dinitrotoluene | 5.281 | 165 | 120483 | 16.69 ug/ml | 96 |
| 66) Diethylphthalate | 5.434 | 149 | 382263 | 16.26 ug/ml | 99 |
| 67) Fluorene | 5.528 | 166 | 360731 | 14.44 ug/ml | 97 |
| 68) 4-Chlorophenyl phenyl | 5.516 | 204 | 183305 | 14.09 ug/ml | 97 |
| 69) 4-Nitroaniline | 5.528 | 138 | 108581 | 16.58 ug/ml | 95 |
| 70) Atrazine | 5.940 | 200 | 120528 | 15.80 ug/ml | 97 |
| 72) 4,6-Dinitro-2-methylph | 5.546 | 198 | 68910 | 22.86 ug/ml | 92 |
| 73) N-Nitrosodiphenylamine | 5.593 | 169 | 353382 | 15.17 ug/ml | 100 |
| 74) 1,2-Diphenylhydrazine | 5.622 | 77 | 258089 | 12.04 ug/ml | 92 |
| 76) 4-Bromophenyl phenyl e | 5.840 | 248 | 129732 | 15.35 ug/ml | 96 |
| 77) Hexachlorobenzene | 5.887 | 284 | 153655 | 14.76 ug/ml | 97 |
| 78) Pentachlorophenol | 6.016 | 266 | 98404 | 19.96 ug/ml | 98 |
| 79) Phenanthrene | 6.169 | 178 | 621130 | 14.94 ug/ml | 75 |
| 80) Anthracene | 6.204 | 178 | 633123 | 16.29 ug/ml | 99 |
| 81) Carbazole | 6.304 | 167 | 620038 | 17.06 ug/ml | 98 |
| 82) Di-n-butylphthalate | 6.540 | 149 | 723096 | 17.24 ug/ml | 99 |
| 83) Fluoranthene | 7.075 | 202 | 748373 | 17.19 ug/ml | 97 |
| 87) Pyrene | 7.287 | 202 | 765078 | 17.25 ug/ml | 94 |
| 89) Butylbenzylphthalate | 7.969 | 149 | 289805 | 17.21 ug/ml | 94 |
| 90) Benzo[a]anthracene | 8.722 | 228 | 676358 | 17.12 ug/ml | 90 |
| 91) 3,3'-Dichlorobenzidine | 8.692 | 252 | 28724 | 2.98 ug/ml | 97 |
| 92) Chrysene | 8.775 | 228 | 648711 | 16.66 ug/ml | 95 |
| 93) Bis(2-ethylhexyl)phtha | 8.798 | 149 | 369779 | 18.03 ug/ml | 99 |
| 95) Di-n-octylphthalate | 9.963 | 149 | 427567 | 21.69 ug/ml | 96 |
| 96) Benzo(b)fluoranthene | 10.563 | 252 | 523841 | 17.92 ug/ml | 98 |

Data Path : E:\SVMS8\8A092418\
Data File : 09241812.D
Acq On : 24 Sep 2018 11:16 pm
Operator : RM
Sample : 1809614-01A MS
Misc : 1X 18BAW-124572 WATER
ALS Vial : 11 Sample Multiplier: 1

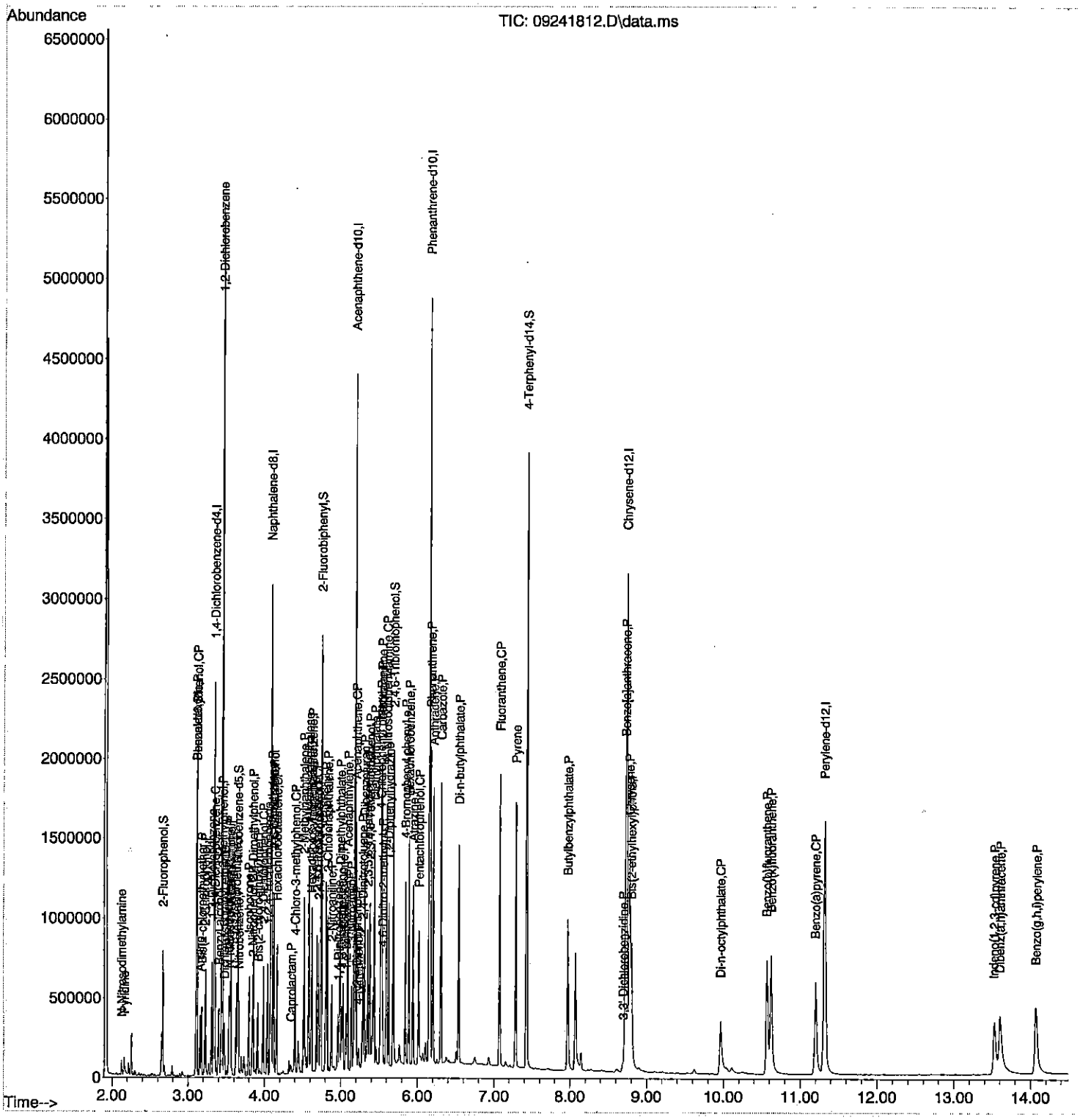
Quant Time: Sep 26 16:30:12 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 97) Benzo(k)fluoranthene | 10.622 | 252 | 576645 | 18.01 ug/ml | 85 |
| 98) Benzo(a)pyrene | 11.198 | 252 | 491123 | 17.58 ug/ml | 86 |
| 99) Indeno(1,2,3-cd)pyrene | 13.527 | 276 | 352002 | 17.51 ug/ml | 69 |
| 100) Dibenz(a,h)anthracene | 13.604 | 278 | 373899 | 16.87 ug/ml# | 86 |
| 101) Benzo(g,h,i)perylene | 14.074 | 276 | 460217 | 18.68 ug/ml | 71 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\SVMS8\8A092418\
Data File : 09241812.D
Acq On : 24 Sep 2018 11:16 pm
Operator : RM
Sample : 1809614-01A MS
Misc : 1X 18BAW-124572 WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 26 16:30:12 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration



Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181829.D
Acq On : 18 Sep 2018 11:11 pm
Operator : EB
Sample : 1809614-02A DUP
Misc : 1X 18BAW-124572/73
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 19 08:12:18 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration

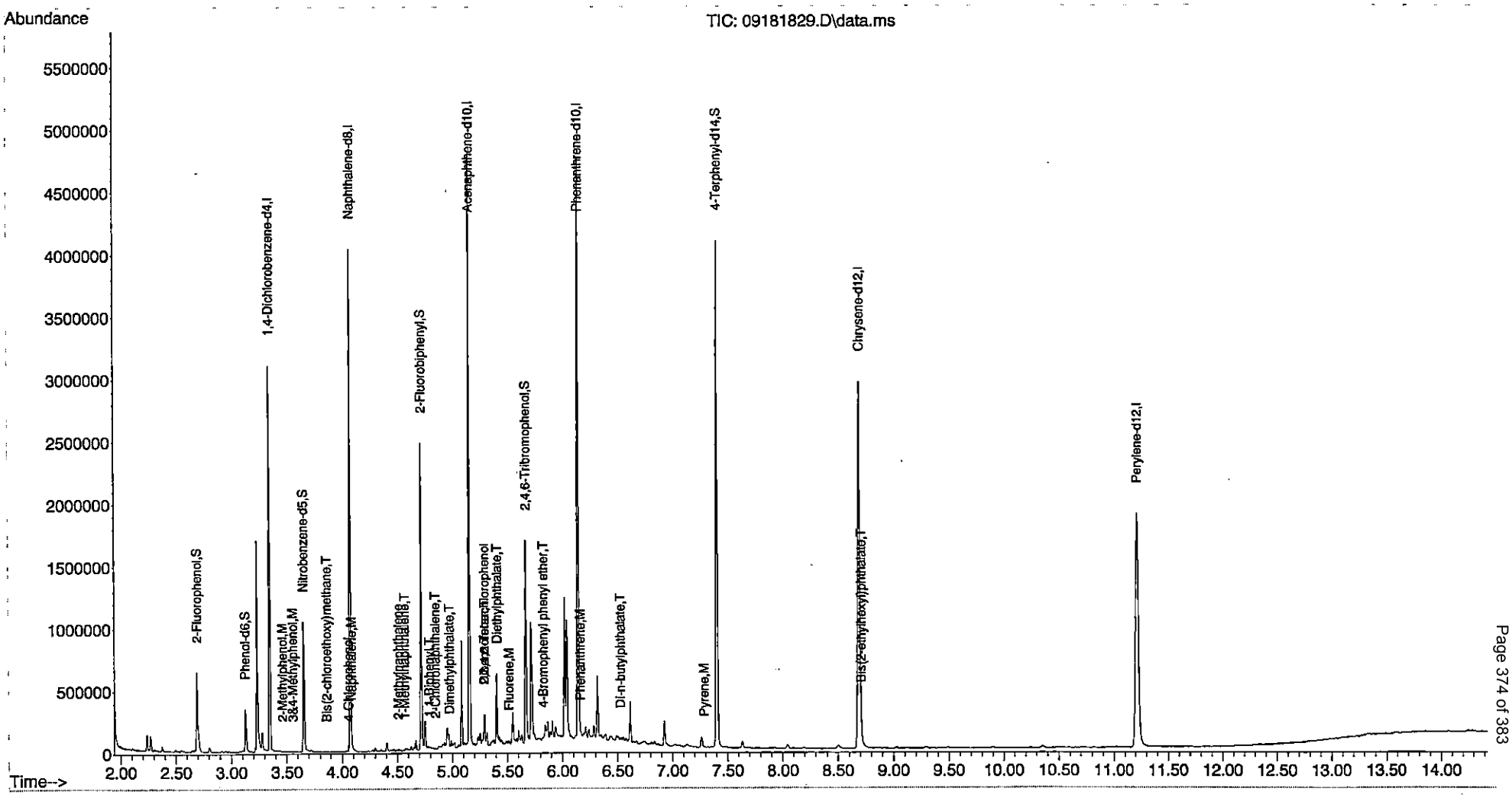
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.343 | 150 | 462175 | 40.00 | ug/ml | 0.00 |
| 22) Naphthalene-d8 | 4.072 | 136 | 1098776 | 40.00 | ug/ml | 0.00 |
| 47) Acenaphthene-d10 | 5.154 | 164 | 682193 | 40.00 | ug/ml | 0.00 |
| 69) Phenanthrene-d10 | 6.143 | 188 | 1294506 | 40.00 | ug/ml | 0.00 |
| 82) Chrysene-d12 | 8.690 | 240 | 1262243 | 40.00 | ug/ml | 0.00 |
| 92) Perylene-d12 | 11.213 | 264 | 1377933 | 40.00 | ug/ml | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 2.690 | 112 | 108781 | 12.54 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 7 - 75 | | Recovery = 25.08% | | | |
| 7) Phenol-d6 | 3.125 | 99 | 82129 | 7.50 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 3 - 67 | | Recovery = 15.00% | | | |
| 23) Nitrobenzene-d5 | 3.649 | 82 | 282933 | 22.67 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 8 - 115 | | Recovery = 45.34% | | | |
| 52) 2-Fluorobiphenyl | 4.719 | 172 | 506805 | 21.52 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 20 - 122 | | Recovery = 43.04% | | | |
| 73) 2,4,6-Tribromophenol | 5.666 | 330 | 128350 | 33.17 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 24 - 162 | | Recovery = 66.34% | | | |
| 86) 4-Terphenyl-d14 | 7.401 | 244 | 1179760 | 39.76 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 22 - 172 | | Recovery = 79.52% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 1,4-Dioxane | 2.049 | 88 | 282 | Below Cal | # | 35 |
| 10) Bis(2-chloroethyl)ether | 3.178 | 93 | 466 | Below Cal | # | 61 |
| 16) 2-Methylphenol | 3.460 | 107 | 50 | 0.01 | ug/ml# | 1 |
| 18) 3&4-Methylphenol | 3.555 | 107 | 127 | 0.01 | ug/ml# | 1 |
| 28) Bis(2-chloroethoxy)met... | 3.860 | 93 | 80 | 0.01 | ug/ml# | 1 |
| 32) 4-Chlorophenol | 4.055 | 128 | 124 | 0.01 | ug/ml# | 34 |
| 33) Naphthalene | 4.084 | 128 | 3951 | 0.10 | ug/ml# | 1 |
| 39) 2-Methylnaphthalene | 4.507 | 142 | 1576 | 0.11 | ug/ml# | 78 |
| 40) 1-Methylnaphthalene | 4.566 | 142 | 991 | 0.04 | ug/ml# | 67 |
| 41) 1,1-Biphenyl | 4.790 | 154 | 1527 | 0.06 | ug/ml# | 64 |
| 43) 2,3,4,6-Tetrachlorophenol | 5.290 | 232 | 100 | 0.02 | ug/ml# | 1 |
| 53) 2-Chloronaphthalene | 4.843 | 162 | 78 | 0.00 | ug/ml# | 1 |
| 55) Dimethylphthalate | 4.972 | 163 | 406 | 0.02 | ug/ml# | 1 |
| 61) Dibenzofuran | 5.290 | 168 | 509 | 0.02 | ug/ml# | 1 |
| 64) Diethylphthalate | 5.407 | 149 | 903 | 0.04 | ug/ml | 62 |
| 65) Fluorene | 5.513 | 166 | 818 | 0.04 | ug/ml# | 42 |
| 66) 4-Chlorophenyl phenyl ... | 5.519 | 204 | 58 | Below Cal | # | 1 |
| 74) 4-Bromophenyl phenyl e... | 5.825 | 248 | 51 | 0.00 | ug/ml# | 1 |
| 77) Phenanthrene | 6.160 | 178 | 3536 | 0.10 | ug/ml | 90 |
| 80) Di-n-butylphthalate | 6.525 | 149 | 3470 | 0.43 | ug/ml | 60 |
| 85) Pyrene | 7.284 | 202 | 1363 | 0.04 | ug/ml# | 32 |
| 91) Bis(2-ethylhexyl)phtha... | 8.707 | 149 | 7320 | 0.71 | ug/ml | 79 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : E:\SVMS7\7S\7S091818\
Data File : 09181829.D
Acq On : 18 Sep 2018 11:11 pm
Operator : EB
Sample : 1809614-02A DUP
Misc : 1X 18BAW-124572/73
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 19 08:12:18 2018
Quant Method : C:\msdchem\1\methods\7S091818.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Wed Sep 19 08:05:25 2018
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : E:\SVMS8\8A092418\
Data File : 09241814.D
Acq On : 24 Sep 2018 11:56 pm
Operator : RM
Sample : 1809614-02A DUP
Misc : 1X 18BAW-124572 WATER
ALS Vial : 13 Sample Multiplier: 1

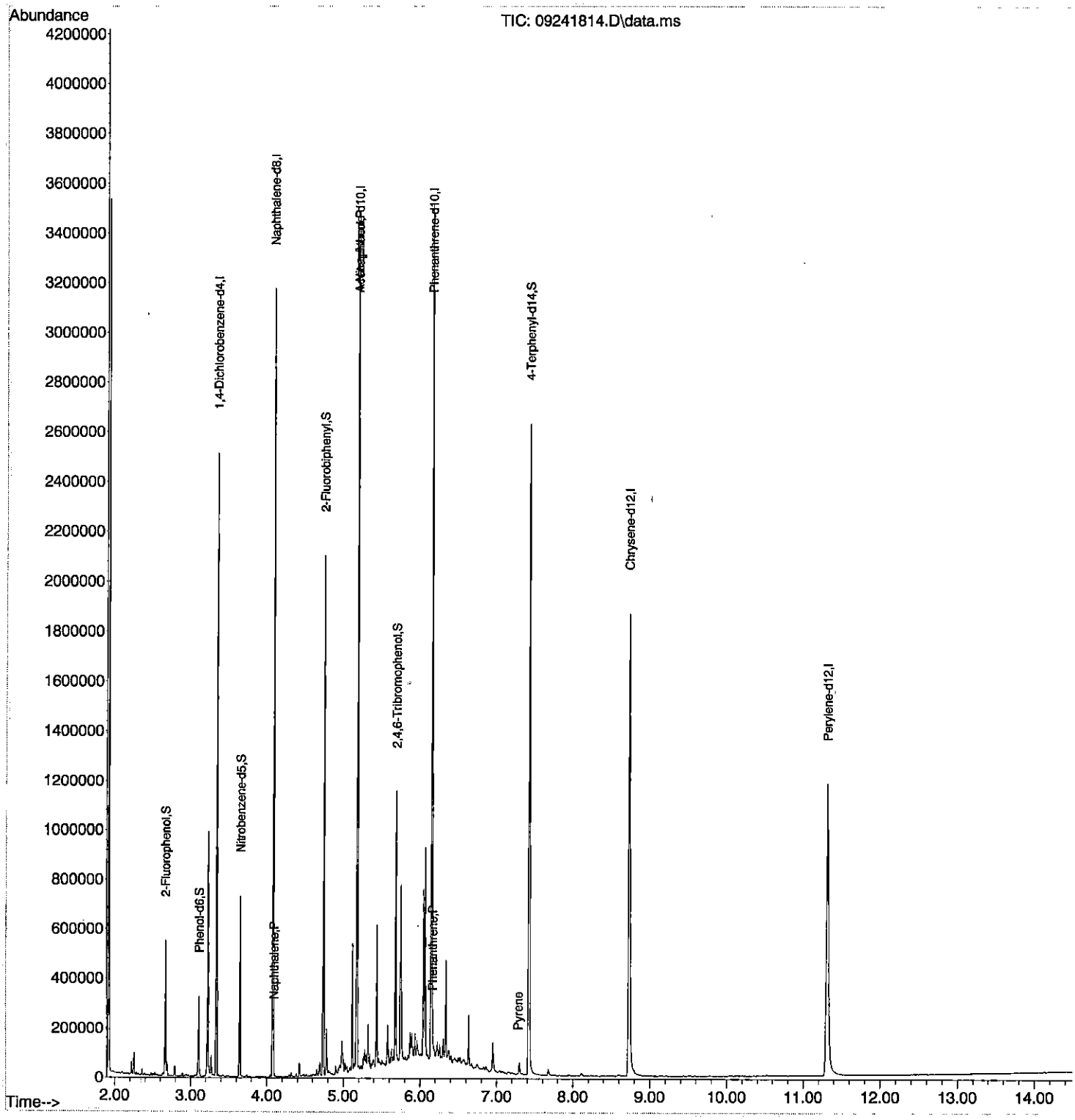
Quant Time: Sep 26 16:30:18 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 3.334 | 150 | 474212 | 40.00 | ug/ml | 0.00 |
| 24) Naphthalene-d8 | 4.075 | 136 | 1162126 | 40.00 | ug/ml | 0.00 |
| 50) Acenaphthene-d10 | 5.175 | 164 | 687548 | 40.00 | ug/ml | 0.00 |
| 71) Phenanthrene-d10 | 6.146 | 188 | 1207303 | 40.00 | ug/ml | 0.00 |
| 84) Chrysene-d12 | 8.728 | 240 | 989922 | 40.00 | ug/ml | 0.00 |
| 94) Perylene-d12 | 11.310 | 264 | 867378 | 40.00 | ug/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 2.663 | 112 | 114256 | 13.30 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 13 - 56 | | Recovery = 26.60% | | | |
| 7) Phenol-d6 | 3.104 | 99 | 91634 | 8.74 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 10 - 35 | | Recovery = 17.48% | | | |
| 25) Nitrobenzene-d5 | 3.646 | 82 | 195429 | 23.22 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 29 - 80 | | Recovery = 46.44% | | | |
| 54) 2-Fluorobiphenyl | 4.734 | 172 | 545371 | 22.75 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 26 - 79 | | Recovery = 45.50% | | | |
| 75) 2,4,6-Tribromophenol | 5.681 | 330 | 149857 | 31.77 | ug/ml | 0.00 |
| Spiked Amount 50.000 | Range 27 - 83 | | Recovery = 63.54% | | | |
| 88) 4-Terphenyl-d14 | 7.422 | 244 | 1067936 | 42.00 | ug/ml | 0.02 |
| Spiked Amount 50.000 | Range 43 - 106 | | Recovery = 84.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 35) Naphthalene | 4.087 | 128 | 4720 | 0.15 | ug/ml# | 71 |
| 64) 4-Nitrophenol | 5.175 | 65 | 1908 | 1.14 | ug/ml# | 16 |
| 79) Phenanthrene | 6.163 | 178 | 3845 | 0.11 | ug/ml# | 57 |
| 87) Pyrene | 7.281 | 202 | 910 | 0.10 | ug/ml# | 56 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : E:\SVMS8\8A092418\
Data File : 09241814.D
Acq On : 24 Sep 2018 11:56 pm
Operator : RM
Sample : 1809614-02A DUP
Misc : 1X 18BAW-124572 WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 26 16:30:18 2018
Quant Method : D:\MassHunter\Methods\8S092318.M
Quant Title : 8270/625/1311 Calibration
QLast Update : Mon Sep 24 15:51:24 2018
Response via : Initial Calibration



2018 Sep 18 1335 Sequence Log

Starting sequence Tue Sep 18 13:35:38 2018

Instrument Name: SVMS7
Sequence File: C:\msdchem\1\sequence\7S091818.s
Comment:
Operator: EB
Data Path: C:\msdchem\1\DATA\7S091818\
Method Path: C:\MSDCHEM\1\METHODS\

| Line Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|
| Limits fail: Tune Time (Hours) | | | | |
| 1) Sample | 1 | 09181801 | 8270C | CONDITIONING SHOT |
| Limits fail: Tune Time (Hours) | | | | |
| 2) Sample | 1 | 09181802 | 8270C | CONDITIONING SHOT |
| Limits fail: Tune Time (Hours) | | | | |
| 3) Sample | 1 | 09181803 | 8270C | CONDITIONING SHOT |
| Limits fail: Tune Time (Hours) | | | | |
| 4) Sample | 1 | 09181804 | 8270C | CONDITIONING SHOT |
| Limits fail: Tune Time (Hours) | | | | |
| 5) Sample | 2 | 09181805 | 8270C | RINSE |
| Limits fail: Tune Time (Hours) | | | | |
| 6) Sample | 7 | 09181806 | 8270C | RINSE |
| Limits fail: Tune Time (Hours) | | | | |
| 7) Sample | 3 | 09181807 | 8270C | 50 UG/ML DFTPP |
| Limits fail: Tune Time (Hours) | | | | |
| 8) Sample | 4 | 09181808 | 8270C | 0.1ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 9) Sample | 5 | 09181809 | 8270C | 0.5ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 10) Sample | 6 | 09181810 | 8270C | 1.0ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 11) Sample | 7 | 09181811 | 8270C | 5.0ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 12) Sample | 8 | 09181812 | 8270C | 10ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 13) Sample | 9 | 09181813 | 8270C | 20ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 14) Sample | 10 | 09181814 | 8270C | 40ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 15) Sample | 11 | 09181815 | 8270C | 50ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 16) Sample | 12 | 09181816 | 8270C | 60ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 17) Sample | 13 | 09181817 | 8270C | ICV 20ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 18) Sample | 3 | 09181818 | 8270C | 50 UG/ML DFTPP |
| Limits fail: Tune Time (Hours) | | | | |
| 19) Sample | 9 | 09181819 | 8270C | 20ug/ml BNA |
| Limits fail: Tune Time (Hours) | | | | |
| 20) Sample | 21 | 09181820 | 8270C | SBLKW1-124418 |
| Limits fail: Tune Time (Hours) | | | | |
| 21) Sample | 22 | 09181821 | 8270C | SLCSW1-124418 |
| Limits fail: Tune Time (Hours) | | | | |
| 22) Sample | 23 | 09181822 | 8270C | SBLKW1-124572 |
| Limits fail: Tune Time (Hours) | | | | |
| 23) Sample | 24 | 09181823 | 8270C | SLCSW1-124572 |
| Limits fail: Tune Time (Hours) | | | | |
| 24) Sample | 25 | 09181824 | 8270C | 1809504-02A MS DF10 |
| Limits fail: Tune Time (Hours) | | | | |
| 25) Sample | 26 | 09181825 | 8270C | 1809504-02A MSD DF10 |
| Limits fail: Tune Time (Hours) | | | | |
| 26) Sample | 27 | 09181826 | 8270C | 1809504-02A DF10 |

2018 Sep 18 1335 Sequence Log

```
Limits fail: Tune Time (Hours)
 27) Sample        28  09181827  8270C     1809614-01A MS
Limits fail: Tune Time (Hours)
 28) Sample        29  09181828  8270C     1809614-01A
Limits fail: Tune Time (Hours)
 29) Sample        30  09181829  8270C     1809614-02A DUP
Limits fail: Tune Time (Hours)
 30) Sample        31  09181830  8270C     1809614-02A
Limits fail: Tune Time (Hours)
 31) Sample        32  09181831  8270C     1809809-01D
Limits fail: Tune Time (Hours)
 32) Sample        33  09181832  8270C     1809809-02D
Limits fail: Tune Time (Hours)
 33) Sample        34  09181833  8270C     1809624-05B DF5
Limits fail: Tune Time (Hours)
 34) Sample        35  09181834  8270C     1809630-01G
Limits fail: Tune Time (Hours)
 35) Sample        36  09181835  8270C     1809630-02G DF20
Limits fail: Tune Time (Hours)
 36) Sample        37  09181836  8270C     1809630-03G DF20
Limits fail: Tune Time (Hours)
 37) Sample        38  09181837  8270C     1809807-03C
Limits fail: Tune Time (Hours)
 38) Sample        39  09181838  8270C     1809705-01B
Limits fail: Tune Time (Hours)
 39) Sample        40  09181839  8270C     1809624-01B
Limits fail: Tune Time (Hours)
 40) Sample        41  09181840  8270C     1809511-01B
Limits fail: Tune Time (Hours)
 41) Sample        42  09181841  8270C     1809511-04B
Limits fail: Tune Time (Hours)
 42) Sample        43  09181842  8270C     1809511-05B
Limits fail: Tune Time (Hours)
 43) Sample        44  09181843  8270C     1809511-06B
Limits fail: Tune Time (Hours)
 44) Sample        45  09181844  8270C     1809511-07B
Limits fail: Tune Time (Hours)
 45) Sample        46  09181845  8270C     1809607-03C
Limits fail: Tune Time (Hours)
 46) Sample        47  09181846  8270C     1809940-01B DF100
Limits fail: Tune Time (Hours)
 47) Sample        48  09181847  8270C     1809940-02B DF50
Limits fail: Tune Time (Hours)
 48) Sample        49  09181848  8270C     1809940-03B DF50
Limits fail: Tune Time (Hours)
 49) Sample        50  09181849  8270C     1809878-01A DF200
Limits fail: Tune Time (Hours)
 50) Sample         2  09181850  8270C     RINSE
Limits fail: Tune Time (Hours)
 51) Sample         2  09181851  8270C     RINSE
Limits fail: Tune Time (Hours)
 52) Sample         2  09181852  8270C     RINSE
Limits fail: Tune Time (Hours)
 53) Sample         2  09181853  8270C     RINSE

Sequence completed Wed Sep 19 07:48:52 2018

  C:\msdchem\1\DATA\7S091818\2018 Sep 18 1335 Quality Log.LOG
  C:\msdchem\1\DATA\7S091818\2018 Sep 18 1335 Sequence Log .LOG
```

```
                        2018 Sep 19 0941 Sequence Log
  Starting sequence Wed Sep 19 09:41:45 2018

Instrument Name: SVMS7
  Sequence File: C:\msdchem\1\sequence\7S091918.s
        Comment:
       Operator: EB
      Data Path: C:\msdchem\1\DATA\7S091918\
    Method Path: C:\MSDCHEM\1\METHODS\

  Line Type        Vial  DataFile  Method    Sample Name
  ---------------------------------------------------------------------------
    1) Clocksrt: '11:00'
         ClockStart will occur at: 11:00:00
  !-------------------------------------------------------!
  !Sequence will continue in 4740 Seconds. !
  !-------------------------------------------------------!
  Limits fail: Tune Time (Hours)
    2) Sample         1  09191801  8270C     CONDITIONING SHOT
  Limits fail: Tune Time (Hours)
    3) Sample         2  09191802  8270C     RINSE
  Limits fail: Tune Time (Hours)
    4) Sample         3  09191803  8270C     50 UG/ML DFTPP
  Limits fail: Tune Time (Hours)
    5) Sample         9  09191804  8270C     20ug/ml BNA
  Limits fail: Tune Time (Hours)
    6) Sample        14  09191805  8270C     1809940-01B DF500
  Limits fail: Tune Time (Hours)
    7) Sample        15  09191806  8270C     1809905-02B DF10

  Sequence completed Wed Sep 19 13:06:26 2018

    C:\msdchem\1\DATA\7S091918\2018 Sep 19 0941 Quality Log.LOG
    C:\msdchem\1\DATA\7S091918\2018 Sep 19 0941 Sequence Log .LOG
```

2018 Sep 24 1945 Sequence Log

Starting sequence Mon Sep 24 19:45:06 2018

Instrument Name: SVMS8
Sequence File: D:\MassHunter\GCMS\1\sequence\8S092418.sequence.xml
Comment: Semivolatiles by 8270 / 625
Operator: RM
Data Path: D:\MassHunter\GCMS\1\data\8A092418\
Method Path: D:\MassHunter\GCMS\1\methods\

| Line | Type | Vials | DataFile | Sample Name |
|---|---|---|---|---|
| Acquisition Method: 8270.M | | | | |
| 1) | Sample | 1 | 09241801 | RINSE |
| | Comment: RINSE | | | |
| 2) | Sample | 1 | 09241802 | RINSE |
| | Comment: RINSE | | | |
| Acquisition Method: DFTPP.M | | | | |
| 3) | Sample | 2 | 09241803 | 50 ug/mL DFTPP |
| | Comment: 300-0363A | | | |
| Acquisition Method: 8270.M | | | | |
| 4) | Sample | 3 | 09241804 | 40 ug/mL APIX |
| | Comment: 300-0376E | | | |
| 5) | Sample | 4 | 09241805 | 20 ug/mL BNA |
| | Comment: 300-0390F | | | |
| 6) | Sample | 5 | 09241806 | SBLKW1-124844 |
| | Comment: 1X | 18BAW-124844 WATER | | |
| 7) | Sample | 6 | 09241807 | SLCSW1-124844 |
| | Comment: 1X | 18BAW-124844 WATER | | |
| 8) | Sample | 7 | 09241808 | SBLKW1-124926 |
| | Comment: 1X | 18BAW-124926 WATER | | |
| 9) | Sample | 8 | 09241809 | SLCSW1-124926 |
| | Comment: 1X | 18BAW-124926 WATER | | |
| 10) | Sample | 9 | 09241810 | SBLKW1-124572 |
| | Comment: 1X | 18BAW-124572 WATER | | |
| 11) | Sample | 10 | 09241811 | SLCSW1-124572 |
| | Comment: 1X | 18BAW-124572 WATER | | |
| 12) | Sample | 11 | 09241812 | 1809614-01A MS |
| | Comment: 1X | 18BAW-124572 WATER | | |
| 13) | Sample | 12 | 09241813 | 1809614-01A |
| | Comment: 1X | 18BAW-124572 WATER | | |
| 14) | Sample | 13 | 09241814 | 1809614-02A DUP |
| | Comment: 1X | 18BAW-124572 WATER | | |
| 15) | Sample | 14 | 09241815 | 1809614-02A |
| | Comment: 1X | 18BAW-124572 WATER | | |
| 16) | Sample | 15 | 09241816 | 1809934-01B MS |
| | Comment: 1X | 18BAW-124844 WATER | | |
| 17) | Sample | 16 | 09241817 | 1809934-01B MSD |
| | Comment: 1X | 18BAW-124844 WATER | | |
| 18) | Sample | 17 | 09241818 | 1809934-01B |
| | Comment: 1X | 18BAW-124844 WATER | | |
| 19) | Sample | 18 | 09241819 | 18091057-14A MS |
| | Comment: 1X | 18BAW-124926 WATER | | |
| 20) | Sample | 19 | 09241820 | 18091057-14A MSD |
| | Comment: 1X | 18BAW-124926 WATER | | |
| 21) | Sample | 20 | 09241821 | 18091057-14A |
| | Comment: 1X | 18BAW-124926 WATER | | |
| 22) | Sample | 21 | 09241822 | 1809772-01A DF500 |
| | Comment: 500X | 18BAW-124676 WATER | | |
| 23) | Sample | 22 | 09241823 | 1809769-01A DF125 |
| | Comment: 125X | 18BAW-124676 WATER | | |
| 24) | Sample | 23 | 09241824 | 1809769-02A DF125 |

```
                    2018 Sep 24 1945 Sequence Log
    Comment: 125X     18BAW-124676 WATER
 25) Sample          24      09241825                1809769-09A DF125
    Comment: 125X     18BAW-124676 WATER
 26) Sample          25      09241826                18091050-02D DF200
    Comment: 200X     18BAW-124925 WATER
 27) Sample          26      09241827                18091050-03D DF40
    Comment: 40X      18BAW-124925 WATER
 28) Sample          27      09241828                1809772-20A
    Comment: 1X      18BAW-125026 WATER
 29) Sample          28      09241829                1809772-21A
    Comment: 1X      18BAW-125026 WATER
 30) Sample           1      09241830
 31) Sample           1      09241831
 32) Sample           1      09241832

Sequence completed Tue Sep 25 06:09:44 2018

  D:\MassHunter\GCMS\1\data\8A092418\2018 Sep 24 1945 Sequence Log .LOG
```

# ALS Group, USA

# PREP BATCH REPORT

Batch ID: **124572** Prep Code: **BA_3510_W**

Start Date: **9/15/2018 6:11:35 AM** End Date: **9/15/2018 5:17:03 PM**

Technician: **Jacqueline Disanto**

InitSamp Wt/Vol: 1000 mL
FinSampVol: 1 mL
OriginalFac: 0.001
PrepUnitFac:

| Sample ID | Matrix | pH | Init wt | Init vol | PMoisture | Fin Vol (mL) | Factor |
|---|---|---|---|---|---|---|---|
| 18081991-15A | Aqueous | | | 1000 | 0 | 1 | 0.001 |
| 18081991-16A | Aqueous | | | 1000 | 0 | 1 | 0.001 |
| 1809614-01A | Aqueous | | | 1000 | 0 | 1 | 0.001 |
| 1809614-01A MS | Aqueous | | | 1000 | 0 | 1 | 0.001 |
| 1809614-02A | Aqueous | | | 740 | 0 | 1 | 0.00135135 |
| 1809614-02A DUP | Aqueous | | | 740 | 0 | 1 | 0.00135135 |
| 1809624-05B | Groundwater | | | 1000 | 0 | 1 | 0.001 |
| 1809624-10B thick sample | Groundwater | | | 100 | 0 | 1 | 0.01 |
| 1809630-01G | Aqueous | | | 1000 | 0 | 1 | 0.001 |
| 1809630-02G | Aqueous | | | 1000 | 0 | 1 | 0.001 |
| 1809630-03G | Aqueous | | | 1000 | 0 | 1 | 0.001 |
| 1809807-03C | Water | | | 1000 | 0 | 1 | 0.001 |
| 1809940-01A | Water | | | 1000 | 0 | 1 | 0.001 |
| 1809940-02A | Water | | | 1000 | 0 | 1 | 0.001 |
| 1809940-03A | Water | | | 1000 | 0 | 1 | 0.001 |
| SBLKW1-124572 | | | | 1000 | 0 | 1 | 0.001 |
| SLCSW1-124572 | | | | 1000 | 0 | 1 | 0.001 |

Notes: *500 uL Surrogate, line# 3081-16-6, added to all samples. 500 uL Mega Mix Spike, line# 300-0392 added to QC. All samples are B1/E1 unless otherwise noted*

# Section IV

# ATTACHMENTS

-Previously Issued Report(s)

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ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company
www.alsglobal.com
RIGHT SOLUTIONS

20-Sep-2018

Justin Button-Hutchens
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL  60606

Re: **Ozinga Tire Fire** Work Order: **1809940**

Dear Justin,

ALS Environmental received 3 samples on 15-Sep-2018 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications.  Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 34.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070  FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

# ALS Group, USA

Date: 20-Sep-18

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Work Order:** **1809940**

## Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 1809940-01 | OTF-SW-01-091418 | Surface Wate | | 9/14/2018 20:50 | 9/15/2018 14:32 | ☐ |
| 1809940-02 | OTF-SW-02-091518 | Surface Wate | | 9/15/2018 00:40 | 9/15/2018 14:32 | ☐ |
| 1809940-03 | OTF-SW-03-091518 | Surface Wate | | 9/15/2018 01:10 | 9/15/2018 14:32 | ☐ |

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Work Order:** 1809940

# Case Narrative

Samples for the above noted Work Order were received on xx/yy/zzzz. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch R244431, Method VOC_8260_W, Sample 1809940-01B MS/MSD: The MS/MSD recovery was above the upper control limit for Bromomethane. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Extractable Organics:

Batch 124572, Method SVO_8270_W, Samples 1809940-01A, -02A, and -03A: The SVOC surrogate recoveries are unavailable due to dilution below the calibration range.

Batch 124572, Method SVO_8270_W, Samples 1809940-01A, -02A, and -03A: The SVOC reporting limits are elevated due to dilution needed to eliminate matrix-related interference.

# ALS Group, USA

Date: 20-Sep-18

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**WorkOrder:** **1809940**

## QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| ** | Estimated Value |
| a | Analyte is non-accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| Hr | BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| X | Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. |

| Acronym | Description |
|---|---|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

| Units Reported | Description |
|---|---|
| µg/L | Micrograms per Liter |

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-01-091418
**Collection Date:** 9/14/2018 08:50 PM

**Work Order:** 1809940
**Lab ID:** 1809940-01
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW846 8270D** | | Prep: SW3510 9/15/18 17:17 | Analyst: **EB** |
| 1,1`-Biphenyl | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 1,2,4,5-Tetrachlorobenzene | ND | | 1,000 | µg/L | 100 | 9/19/2018 05:07 AM |
| 1,4-Dioxane | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,2`-Oxybis(1-chloropropane) | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,3,4,6-Tetrachlorophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,4,5-Trichlorophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,4,6-Trichlorophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,4-Dichlorophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,4-Dimethylphenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,4-Dinitrophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,4-Dinitrotoluene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2,6-Dinitrotoluene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2-Chloronaphthalene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2-Chlorophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2-Methylnaphthalene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| **2-Methylphenol** | **610** | | **500** | **µg/L** | 100 | 9/19/2018 05:07 AM |
| 2-Nitroaniline | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 2-Nitrophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| **3&4-Methylphenol** | **560** | | **500** | **µg/L** | 100 | 9/19/2018 05:07 AM |
| 3,3´-Dichlorobenzidine | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 3-Nitroaniline | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 4,6-Dinitro-2-methylphenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 4-Bromophenyl phenyl ether | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 4-Chloro-3-methylphenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 4-Chloroaniline | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 4-Chlorophenyl phenyl ether | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 4-Nitroaniline | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| 4-Nitrophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Acenaphthene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Acenaphthylene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| **Acetophenone** | **140** | | **100** | **µg/L** | 100 | 9/19/2018 05:07 AM |
| Anthracene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Atrazine | ND | | 100 | µg/L | 100 | 9/19/2018 05:07 AM |
| Benzaldehyde | ND | | 100 | µg/L | 100 | 9/19/2018 05:07 AM |
| Benzo(a)anthracene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Benzo(a)pyrene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Benzo(b)fluoranthene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Benzo(g,h,i)perylene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Benzo(k)fluoranthene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-01-091418
**Collection Date:** 9/14/2018 08:50 PM

**Work Order:** 1809940
**Lab ID:** 1809940-01
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| Bis(2-chloroethoxy)methane | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Bis(2-chloroethyl)ether | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Bis(2-chloroisopropyl)ether | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Bis(2-ethylhexyl)phthalate | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Butyl benzyl phthalate | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| **Caprolactam** | **11,000** | | **5,000** | **µg/L** | 500 | 9/19/2018 12:30 PM |
| Carbazole | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Chrysene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Dibenzo(a,h)anthracene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Dibenzofuran | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Diethyl phthalate | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Dimethyl phthalate | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Di-n-butyl phthalate | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Di-n-octyl phthalate | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Fluoranthene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Fluorene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Hexachlorobenzene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Hexachlorobutadiene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Hexachlorocyclopentadiene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Hexachloroethane | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Isophorone | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Naphthalene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Nitrobenzene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| N-Nitrosodi-n-propylamine | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| N-Nitrosodiphenylamine | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Pentachlorophenol | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| Phenanthrene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| **Phenol** | **970** | | **500** | **µg/L** | 100 | 9/19/2018 05:07 AM |
| Pyrene | ND | | 500 | µg/L | 100 | 9/19/2018 05:07 AM |
| *Surr: 2,4,6-Tribromophenol* | *142* | S | *27-83* | *%REC* | 100 | 9/19/2018 05:07 AM |
| *Surr: 2-Fluorobiphenyl* | *112* | S | *26-79* | *%REC* | 100 | 9/19/2018 05:07 AM |
| *Surr: 2-Fluorophenol* | *68.0* | S | *13-56* | *%REC* | 100 | 9/19/2018 05:07 AM |
| *Surr: 4-Terphenyl-d14* | *106* | | *43-106* | *%REC* | 100 | 9/19/2018 05:07 AM |
| *Surr: Nitrobenzene-d5* | *138* | S | *29-80* | *%REC* | 100 | 9/19/2018 05:07 AM |
| *Surr: Phenol-d6* | *110* | S | *10-35* | *%REC* | 100 | 9/19/2018 05:07 AM |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260C** | | | Analyst: **LSY** |
| 1,1,1-Trichloroethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,1,2,2-Tetrachloroethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,1,2-Trichloroethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-01-091418
**Collection Date:** 9/14/2018 08:50 PM

**Work Order:** 1809940
**Lab ID:** 1809940-01
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,1-Dichloroethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,1-Dichloroethene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,2,3-Trichlorobenzene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,2,4-Trichlorobenzene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,2-Dibromo-3-chloropropane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,2-Dibromoethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,2-Dichlorobenzene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,2-Dichloroethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,2-Dichloropropane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,3-Dichlorobenzene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| 1,4-Dichlorobenzene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| **2-Butanone** | **880** | | **120** | **µg/L** | 25 | 9/15/2018 04:24 PM |
| 2-Hexanone | ND | | 120 | µg/L | 25 | 9/15/2018 04:24 PM |
| **4-Methyl-2-pentanone** | **750** | | **25** | **µg/L** | 25 | 9/15/2018 04:24 PM |
| **Acetone** | **4,300** | | **1,000** | **µg/L** | 100 | 9/15/2018 03:18 PM |
| **Benzene** | **470** | | **25** | **µg/L** | 25 | 9/15/2018 04:24 PM |
| Bromochloromethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Bromodichloromethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Bromoform | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Bromomethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Carbon disulfide | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Carbon tetrachloride | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Chlorobenzene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Chloroethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Chloroform | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Chloromethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| cis-1,2-Dichloroethene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| cis-1,3-Dichloropropene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Cyclohexane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Dibromochloromethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Dichlorodifluoromethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| **Ethylbenzene** | **56** | | **25** | **µg/L** | 25 | 9/15/2018 04:24 PM |
| Isopropylbenzene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| **m,p-Xylene** | **110** | | **50** | **µg/L** | 25 | 9/15/2018 04:24 PM |
| Methyl acetate | ND | | 50 | µg/L | 25 | 9/15/2018 04:24 PM |
| Methyl tert-butyl ether | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Methylcyclohexane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Methylene chloride | ND | | 120 | µg/L | 25 | 9/15/2018 04:24 PM |
| **o-Xylene** | **26** | | **25** | **µg/L** | 25 | 9/15/2018 04:24 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-01-091418
**Collection Date:** 9/14/2018 08:50 PM

**Work Order:** 1809940
**Lab ID:** 1809940-01
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **Styrene** | **86** | | **25** | **µg/L** | 25 | 9/15/2018 04:24 PM |
| Tetrachloroethene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| **Toluene** | **290** | | **25** | **µg/L** | 25 | 9/15/2018 04:24 PM |
| trans-1,2-Dichloroethene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| trans-1,3-Dichloropropene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Trichloroethene | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Trichlorofluoromethane | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| Vinyl chloride | ND | | 25 | µg/L | 25 | 9/15/2018 04:24 PM |
| *Surr: 1,2-Dichloroethane-d4* | *106* | | *75-120* | *%REC* | 25 | 9/15/2018 04:24 PM |
| *Surr: 1,2-Dichloroethane-d4* | *105* | | *75-120* | *%REC* | 100 | 9/15/2018 03:18 PM |
| *Surr: 4-Bromofluorobenzene* | *90.2* | | *80-110* | *%REC* | 100 | 9/15/2018 03:18 PM |
| *Surr: 4-Bromofluorobenzene* | *94.0* | | *80-110* | *%REC* | 25 | 9/15/2018 04:24 PM |
| *Surr: Dibromofluoromethane* | *106* | | *85-115* | *%REC* | 100 | 9/15/2018 03:18 PM |
| *Surr: Dibromofluoromethane* | *102* | | *85-115* | *%REC* | 25 | 9/15/2018 04:24 PM |
| *Surr: Toluene-d8* | *98.0* | | *85-110* | *%REC* | 25 | 9/15/2018 04:24 PM |
| *Surr: Toluene-d8* | *95.0* | | *85-110* | *%REC* | 100 | 9/15/2018 03:18 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-02-091518
**Collection Date:** 9/15/2018 12:40 AM

**Work Order:** 1809940
**Lab ID:** 1809940-02
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW846 8270D** | | Prep: SW3510 9/15/18 17:17 | Analyst: **EB** |
| 1,1`-Biphenyl | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 1,2,4,5-Tetrachlorobenzene | ND | | 500 | µg/L | 50 | 9/19/2018 05:28 AM |
| 1,4-Dioxane | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,2`-Oxybis(1-chloropropane) | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,3,4,6-Tetrachlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,4,5-Trichlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,4,6-Trichlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,4-Dichlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,4-Dimethylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,4-Dinitrophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,4-Dinitrotoluene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2,6-Dinitrotoluene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2-Chloronaphthalene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2-Chlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2-Methylnaphthalene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2-Methylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2-Nitroaniline | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 2-Nitrophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 3&4-Methylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 3,3´-Dichlorobenzidine | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 3-Nitroaniline | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 4,6-Dinitro-2-methylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 4-Bromophenyl phenyl ether | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 4-Chloro-3-methylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 4-Chloroaniline | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 4-Chlorophenyl phenyl ether | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 4-Nitroaniline | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| 4-Nitrophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Acenaphthene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Acenaphthylene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Acetophenone | ND | | 50 | µg/L | 50 | 9/19/2018 05:28 AM |
| Anthracene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Atrazine | ND | | 50 | µg/L | 50 | 9/19/2018 05:28 AM |
| Benzaldehyde | ND | | 50 | µg/L | 50 | 9/19/2018 05:28 AM |
| Benzo(a)anthracene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Benzo(a)pyrene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Benzo(b)fluoranthene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Benzo(g,h,i)perylene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Benzo(k)fluoranthene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-02-091518
**Collection Date:** 9/15/2018 12:40 AM

**Work Order:** 1809940
**Lab ID:** 1809940-02
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| Bis(2-chloroethoxy)methane | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Bis(2-chloroethyl)ether | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Bis(2-chloroisopropyl)ether | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Bis(2-ethylhexyl)phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Butyl benzyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| **Caprolactam** | **2,800** | | **500** | **µg/L** | 50 | 9/19/2018 05:28 AM |
| Carbazole | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Chrysene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Dibenzo(a,h)anthracene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Dibenzofuran | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Diethyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Dimethyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Di-n-butyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Di-n-octyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Fluoranthene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Fluorene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Hexachlorobenzene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Hexachlorobutadiene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Hexachlorocyclopentadiene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Hexachloroethane | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Isophorone | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Naphthalene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Nitrobenzene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| N-Nitrosodi-n-propylamine | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| N-Nitrosodiphenylamine | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Pentachlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Phenanthrene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Phenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| Pyrene | ND | | 250 | µg/L | 50 | 9/19/2018 05:28 AM |
| *Surr: 2,4,6-Tribromophenol* | *127* | S | *27-83* | *%REC* | 50 | 9/19/2018 05:28 AM |
| *Surr: 2-Fluorobiphenyl* | *77.0* | | *26-79* | *%REC* | 50 | 9/19/2018 05:28 AM |
| *Surr: 2-Fluorophenol* | *47.0* | | *13-56* | *%REC* | 50 | 9/19/2018 05:28 AM |
| *Surr: 4-Terphenyl-d14* | *65.0* | | *43-106* | *%REC* | 50 | 9/19/2018 05:28 AM |
| *Surr: Nitrobenzene-d5* | *106* | S | *29-80* | *%REC* | 50 | 9/19/2018 05:28 AM |
| *Surr: Phenol-d6* | *44.0* | S | *10-35* | *%REC* | 50 | 9/19/2018 05:28 AM |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260C** | | | Analyst: **LSY** |
| 1,1,1-Trichloroethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,1,2-Trichloroethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-02-091518
**Collection Date:** 9/15/2018 12:40 AM

**Work Order:** 1809940
**Lab ID:** 1809940-02
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,1-Dichloroethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,1-Dichloroethene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,2,3-Trichlorobenzene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,2,4-Trichlorobenzene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,2-Dibromo-3-chloropropane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,2-Dibromoethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,2-Dichlorobenzene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,2-Dichloroethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,2-Dichloropropane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,3-Dichlorobenzene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| 1,4-Dichlorobenzene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| **2-Butanone** | **300** | | **50** | **µg/L** | 10 | 9/15/2018 04:40 PM |
| 2-Hexanone | ND | | 50 | µg/L | 10 | 9/15/2018 04:40 PM |
| **4-Methyl-2-pentanone** | **460** | | **10** | **µg/L** | 10 | 9/15/2018 04:40 PM |
| **Acetone** | **1,900** | | **500** | **µg/L** | 50 | 9/15/2018 04:07 PM |
| **Benzene** | **87** | | **10** | **µg/L** | 10 | 9/15/2018 04:40 PM |
| Bromochloromethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Bromodichloromethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Bromoform | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Bromomethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Carbon disulfide | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Carbon tetrachloride | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Chlorobenzene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Chloroethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Chloroform | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Chloromethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| cis-1,2-Dichloroethene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| cis-1,3-Dichloropropene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Cyclohexane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Dibromochloromethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Dichlorodifluoromethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Ethylbenzene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Isopropylbenzene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| m,p-Xylene | ND | | 20 | µg/L | 10 | 9/15/2018 04:40 PM |
| Methyl acetate | ND | | 20 | µg/L | 10 | 9/15/2018 04:40 PM |
| Methyl tert-butyl ether | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Methylcyclohexane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Methylene chloride | ND | | 50 | µg/L | 10 | 9/15/2018 04:40 PM |
| o-Xylene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-02-091518
**Collection Date:** 9/15/2018 12:40 AM

**Work Order:** 1809940
**Lab ID:** 1809940-02
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| Styrene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Tetrachloroethene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| **Toluene** | **38** | | **10** | **µg/L** | 10 | 9/15/2018 04:40 PM |
| trans-1,2-Dichloroethene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| trans-1,3-Dichloropropene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Trichloroethene | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Trichlorofluoromethane | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| Vinyl chloride | ND | | 10 | µg/L | 10 | 9/15/2018 04:40 PM |
| *Surr: 1,2-Dichloroethane-d4* | *107* | | *75-120* | *%REC* | 10 | 9/15/2018 04:40 PM |
| *Surr: 1,2-Dichloroethane-d4* | *109* | | *75-120* | *%REC* | 50 | 9/15/2018 04:07 PM |
| *Surr: 4-Bromofluorobenzene* | *92.2* | | *80-110* | *%REC* | 50 | 9/15/2018 04:07 PM |
| *Surr: 4-Bromofluorobenzene* | *93.9* | | *80-110* | *%REC* | 10 | 9/15/2018 04:40 PM |
| *Surr: Dibromofluoromethane* | *106* | | *85-115* | *%REC* | 50 | 9/15/2018 04:07 PM |
| *Surr: Dibromofluoromethane* | *103* | | *85-115* | *%REC* | 10 | 9/15/2018 04:40 PM |
| *Surr: Toluene-d8* | *102* | | *85-110* | *%REC* | 10 | 9/15/2018 04:40 PM |
| *Surr: Toluene-d8* | *97.0* | | *85-110* | *%REC* | 50 | 9/15/2018 04:07 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-03-091518
**Collection Date:** 9/15/2018 01:10 AM

**Work Order:** 1809940
**Lab ID:** 1809940-03
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW846 8270D** | | Prep: SW3510 9/15/18 17:17 | Analyst: **EB** |
| 1,1`-Biphenyl | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 1,2,4,5-Tetrachlorobenzene | ND | | 500 | µg/L | 50 | 9/19/2018 05:49 AM |
| 1,4-Dioxane | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,2`-Oxybis(1-chloropropane) | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,3,4,6-Tetrachlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,4,5-Trichlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,4,6-Trichlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,4-Dichlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,4-Dimethylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,4-Dinitrophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,4-Dinitrotoluene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2,6-Dinitrotoluene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2-Chloronaphthalene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2-Chlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2-Methylnaphthalene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2-Methylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2-Nitroaniline | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 2-Nitrophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 3&4-Methylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 3,3´-Dichlorobenzidine | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 3-Nitroaniline | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 4,6-Dinitro-2-methylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 4-Bromophenyl phenyl ether | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 4-Chloro-3-methylphenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 4-Chloroaniline | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 4-Chlorophenyl phenyl ether | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 4-Nitroaniline | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| 4-Nitrophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Acenaphthene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Acenaphthylene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| **Acetophenone** | **53** | | **50** | **µg/L** | 50 | 9/19/2018 05:49 AM |
| Anthracene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Atrazine | ND | | 50 | µg/L | 50 | 9/19/2018 05:49 AM |
| Benzaldehyde | ND | | 50 | µg/L | 50 | 9/19/2018 05:49 AM |
| Benzo(a)anthracene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Benzo(a)pyrene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Benzo(b)fluoranthene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Benzo(g,h,i)perylene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Benzo(k)fluoranthene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-03-091518
**Collection Date:** 9/15/2018 01:10 AM

**Work Order:** 1809940
**Lab ID:** 1809940-03
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| Bis(2-chloroethoxy)methane | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Bis(2-chloroethyl)ether | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Bis(2-chloroisopropyl)ether | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Bis(2-ethylhexyl)phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Butyl benzyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| **Caprolactam** | **1,200** | | **500** | **µg/L** | 50 | 9/19/2018 05:49 AM |
| Carbazole | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Chrysene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Dibenzo(a,h)anthracene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Dibenzofuran | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Diethyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Dimethyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Di-n-butyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Di-n-octyl phthalate | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Fluoranthene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Fluorene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Hexachlorobenzene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Hexachlorobutadiene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Hexachlorocyclopentadiene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Hexachloroethane | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Isophorone | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Naphthalene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Nitrobenzene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| N-Nitrosodi-n-propylamine | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| N-Nitrosodiphenylamine | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Pentachlorophenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Phenanthrene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Phenol | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| Pyrene | ND | | 250 | µg/L | 50 | 9/19/2018 05:49 AM |
| *Surr: 2,4,6-Tribromophenol* | *148* | S | *27-83* | *%REC* | 50 | 9/19/2018 05:49 AM |
| *Surr: 2-Fluorobiphenyl* | *112* | S | *26-79* | *%REC* | 50 | 9/19/2018 05:49 AM |
| *Surr: 2-Fluorophenol* | *49.0* | | *13-56* | *%REC* | 50 | 9/19/2018 05:49 AM |
| *Surr: 4-Terphenyl-d14* | *105* | | *43-106* | *%REC* | 50 | 9/19/2018 05:49 AM |
| *Surr: Nitrobenzene-d5* | *105* | S | *29-80* | *%REC* | 50 | 9/19/2018 05:49 AM |
| *Surr: Phenol-d6* | *47.0* | S | *10-35* | *%REC* | 50 | 9/19/2018 05:49 AM |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260C** | | | Analyst: **LSY** |
| 1,1,1-Trichloroethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,1,2-Trichloroethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-03-091518
**Collection Date:** 9/15/2018 01:10 AM

**Work Order:** 1809940
**Lab ID:** 1809940-03
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,1-Dichloroethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,1-Dichloroethene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,2,3-Trichlorobenzene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,2-Dibromo-3-chloropropane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,2-Dibromoethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,2-Dichlorobenzene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,2-Dichloroethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,2-Dichloropropane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,3-Dichlorobenzene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| 1,4-Dichlorobenzene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| **2-Butanone** | **91** | | **10** | **µg/L** | 2 | 9/15/2018 04:57 PM |
| 2-Hexanone | ND | | 10 | µg/L | 2 | 9/15/2018 04:57 PM |
| **4-Methyl-2-pentanone** | **190** | | **2.0** | **µg/L** | 2 | 9/15/2018 04:57 PM |
| **Acetone** | **420** | | **100** | **µg/L** | 10 | 9/15/2018 03:51 PM |
| **Benzene** | **20** | | **2.0** | **µg/L** | 2 | 9/15/2018 04:57 PM |
| Bromochloromethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Bromodichloromethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Bromoform | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Bromomethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Carbon disulfide | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Carbon tetrachloride | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Chlorobenzene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Chloroethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Chloroform | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| **Chloromethane** | **3.6** | | **2.0** | **µg/L** | 2 | 9/15/2018 04:57 PM |
| cis-1,2-Dichloroethene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| cis-1,3-Dichloropropene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Cyclohexane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Dibromochloromethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Dichlorodifluoromethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| **Ethylbenzene** | **3.7** | | **2.0** | **µg/L** | 2 | 9/15/2018 04:57 PM |
| Isopropylbenzene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| **m,p-Xylene** | **9.0** | | **4.0** | **µg/L** | 2 | 9/15/2018 04:57 PM |
| Methyl acetate | ND | | 4.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Methyl tert-butyl ether | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Methylcyclohexane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Methylene chloride | ND | | 10 | µg/L | 2 | 9/15/2018 04:57 PM |
| **o-Xylene** | **2.1** | | **2.0** | **µg/L** | 2 | 9/15/2018 04:57 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *20-Sep-18*

**Client:** Tetra Tech EM Inc.
**Project:** Ozinga Tire Fire
**Sample ID:** OTF-SW-03-091518
**Collection Date:** 9/15/2018 01:10 AM

**Work Order:** 1809940
**Lab ID:** 1809940-03
**Matrix:** SURFACE WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **Styrene** | **5.5** | | **2.0** | **µg/L** | 2 | 9/15/2018 04:57 PM |
| Tetrachloroethene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| **Toluene** | **15** | | **2.0** | **µg/L** | 2 | 9/15/2018 04:57 PM |
| trans-1,2-Dichloroethene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| trans-1,3-Dichloropropene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Trichloroethene | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Trichlorofluoromethane | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| Vinyl chloride | ND | | 2.0 | µg/L | 2 | 9/15/2018 04:57 PM |
| *Surr: 1,2-Dichloroethane-d4* | *108* | | *75-120* | *%REC* | 2 | 9/15/2018 04:57 PM |
| *Surr: 1,2-Dichloroethane-d4* | *107* | | *75-120* | *%REC* | 10 | 9/15/2018 03:51 PM |
| *Surr: 4-Bromofluorobenzene* | *91.6* | | *80-110* | *%REC* | 10 | 9/15/2018 03:51 PM |
| *Surr: 4-Bromofluorobenzene* | *101* | | *80-110* | *%REC* | 2 | 9/15/2018 04:57 PM |
| *Surr: Dibromofluoromethane* | *102* | | *85-115* | *%REC* | 10 | 9/15/2018 03:51 PM |
| *Surr: Dibromofluoromethane* | *105* | | *85-115* | *%REC* | 2 | 9/15/2018 04:57 PM |
| *Surr: Toluene-d8* | *104* | | *85-110* | *%REC* | 2 | 9/15/2018 04:57 PM |
| *Surr: Toluene-d8* | *96.7* | | *85-110* | *%REC* | 10 | 9/15/2018 03:51 PM |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

Date: 20-Sep-18

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| **MBLK** | Sample ID: **SBLKW1-124572-124572** | Units: **µg/L** | Analysis Date: **9/18/2018 08:48 PM** |
|---|---|---|---|
| Client ID: | Run ID: **SVMS7_180918B** | SeqNo: **5264885** Prep Date: **9/15/2018** | DF: **1** |

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | ND | 5.0 | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 10 | | | | | | | | |
| 1,4-Dioxane | ND | 5.0 | | | | | | | | |
| 2,2`-Oxybis(1-chloropropane) | ND | 5.0 | | | | | | | | |
| 2,3,4,6-Tetrachlorophenol | ND | 5.0 | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2-Chloronaphthalene | ND | 5.0 | | | | | | | | |
| 2-Chlorophenol | ND | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | | | | | | | | |
| 2-Methylphenol | ND | 5.0 | | | | | | | | |
| 2-Nitroaniline | ND | 5.0 | | | | | | | | |
| 2-Nitrophenol | ND | 5.0 | | | | | | | | |
| 3&4-Methylphenol | ND | 5.0 | | | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 5.0 | | | | | | | | |
| 3-Nitroaniline | ND | 5.0 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 5.0 | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 5.0 | | | | | | | | |
| 4-Chloroaniline | ND | 5.0 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Nitroaniline | ND | 5.0 | | | | | | | | |
| 4-Nitrophenol | ND | 5.0 | | | | | | | | |
| Acenaphthene | ND | 5.0 | | | | | | | | |
| Acenaphthylene | ND | 5.0 | | | | | | | | |
| Acetophenone | ND | 1.0 | | | | | | | | |
| Anthracene | ND | 5.0 | | | | | | | | |
| Atrazine | ND | 1.0 | | | | | | | | |
| Benzaldehyde | ND | 1.0 | | | | | | | | |
| Benzo(a)anthracene | ND | 5.0 | | | | | | | | |
| Benzo(a)pyrene | ND | 5.0 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 5.0 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 5.0 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 5.0 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bis(2-chloroisopropyl)ether | ND | 5.0 | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | | | | | |
| Butyl benzyl phthalate | ND | 5.0 | | | | | |
| Caprolactam | ND | 10 | | | | | |
| Carbazole | ND | 5.0 | | | | | |
| Chrysene | ND | 5.0 | | | | | |
| Dibenzo(a,h)anthracene | ND | 5.0 | | | | | |
| Dibenzofuran | ND | 5.0 | | | | | |
| Diethyl phthalate | ND | 5.0 | | | | | |
| Dimethyl phthalate | ND | 5.0 | | | | | |
| Di-n-butyl phthalate | ND | 5.0 | | | | | |
| Di-n-octyl phthalate | ND | 5.0 | | | | | |
| Fluoranthene | ND | 5.0 | | | | | |
| Fluorene | ND | 5.0 | | | | | |
| Hexachlorobenzene | ND | 5.0 | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | |
| Hexachlorocyclopentadiene | ND | 5.0 | | | | | |
| Hexachloroethane | ND | 5.0 | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 5.0 | | | | | |
| Isophorone | ND | 5.0 | | | | | |
| Naphthalene | ND | 5.0 | | | | | |
| Nitrobenzene | ND | 5.0 | | | | | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | | | | | |
| N-Nitrosodiphenylamine | ND | 5.0 | | | | | |
| Pentachlorophenol | ND | 5.0 | | | | | |
| Phenanthrene | ND | 5.0 | | | | | |
| Phenol | ND | 5.0 | | | | | |
| Pyrene | ND | 5.0 | | | | | |
| *Surr: 2,4,6-Tribromophenol* | *35.4* | 0 | *50* | 0 | *70.8* | *27-83* | 0 |
| *Surr: 2-Fluorobiphenyl* | *29.43* | 0 | *50* | 0 | *58.9* | *26-79* | 0 |
| *Surr: 2-Fluorophenol* | *21.38* | 0 | *50* | 0 | *42.8* | *13-56* | 0 |
| *Surr: 4-Terphenyl-d14* | *42.49* | 0 | *50* | 0 | *85* | *43-106* | 0 |
| *Surr: Nitrobenzene-d5* | *30.93* | 0 | *50* | 0 | *61.9* | *29-80* | 0 |
| *Surr: Phenol-d6* | *13.88* | 0 | *50* | 0 | *27.8* | *10-35* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**LCS** Sample ID: **SLCSW1-124572-124572** Units: **µg/L** Analysis Date: **9/18/2018 09:08 PM**

Client ID: Run ID: **SVMS7_180918B** SeqNo: **5264888** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | 12.04 | 5.0 | 20 | 0 | 60.2 | 40-85 | 0 | | | |
| 1,2,4,5-Tetrachlorobenzene | 11.7 | 10 | 20 | 0 | 58.5 | 34-82 | 0 | | | |
| 2,2`-Oxybis(1-chloropropane) | 10.4 | 5.0 | 20 | 0 | 52 | 33-83 | 0 | | | |
| 2,3,4,6-Tetrachlorophenol | 16.04 | 5.0 | 20 | 0 | 80.2 | 43-104 | 0 | | | |
| 2,4,5-Trichlorophenol | 13.18 | 5.0 | 20 | 0 | 65.9 | 47-84 | 0 | | | |
| 2,4,6-Trichlorophenol | 13.25 | 5.0 | 20 | 0 | 66.2 | 45-83 | 0 | | | |
| 2,4-Dichlorophenol | 13.08 | 5.0 | 20 | 0 | 65.4 | 39-84 | 0 | | | |
| 2,4-Dimethylphenol | 9.55 | 5.0 | 20 | 0 | 47.8 | 34-79 | 0 | | | |
| 2,4-Dinitrophenol | 11.35 | 5.0 | 20 | 0 | 56.8 | 11-117 | 0 | | | |
| 2,4-Dinitrotoluene | 13.43 | 5.0 | 20 | 0 | 67.2 | 54-93 | 0 | | | |
| 2,6-Dinitrotoluene | 12.73 | 5.0 | 20 | 0 | 63.6 | 51-90 | 0 | | | |
| 2-Chloronaphthalene | 11.74 | 5.0 | 20 | 0 | 58.7 | 37-84 | 0 | | | |
| 2-Chlorophenol | 11.23 | 5.0 | 20 | 0 | 56.2 | 38-83 | 0 | | | |
| 2-Methylnaphthalene | 11.8 | 5.0 | 20 | 0 | 59 | 33-85 | 0 | | | |
| 2-Methylphenol | 11.65 | 5.0 | 20 | 0 | 58.2 | 29-76 | 0 | | | |
| 2-Nitroaniline | 11.94 | 5.0 | 20 | 0 | 59.7 | 45-94 | 0 | | | |
| 2-Nitrophenol | 12.06 | 5.0 | 20 | 0 | 60.3 | 41-84 | 0 | | | |
| 3&4-Methylphenol | 10.34 | 5.0 | 20 | 0 | 51.7 | 24-70 | 0 | | | |
| 3,3´-Dichlorobenzidine | 12.83 | 5.0 | 20 | 0 | 64.2 | 39-96 | 0 | | | |
| 3-Nitroaniline | 11.85 | 5.0 | 20 | 0 | 59.2 | 50-93 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 15.42 | 5.0 | 20 | 0 | 77.1 | 23-116 | 0 | | | |
| 4-Bromophenyl phenyl ether | 14.63 | 5.0 | 20 | 0 | 73.2 | 51-93 | 0 | | | |
| 4-Chloro-3-methylphenol | 12.51 | 5.0 | 20 | 0 | 62.6 | 41-86 | 0 | | | |
| 4-Chloroaniline | 12.79 | 5.0 | 20 | 0 | 64 | 44-92 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 13.2 | 5.0 | 20 | 0 | 66 | 49-89 | 0 | | | |
| 4-Nitroaniline | 11.84 | 5.0 | 20 | 0 | 59.2 | 47-98 | 0 | | | |
| 4-Nitrophenol | 5.86 | 5.0 | 20 | 0 | 29.3 | 10-43 | 0 | | | |
| Acenaphthene | 11.37 | 5.0 | 20 | 0 | 56.8 | 42-85 | 0 | | | |
| Acenaphthylene | 11.54 | 5.0 | 20 | 0 | 57.7 | 42-88 | 0 | | | |
| Acetophenone | 11.55 | 1.0 | 20 | 0 | 57.8 | 39-91 | 0 | | | |
| Anthracene | 13.76 | 5.0 | 20 | 0 | 68.8 | 55-93 | 0 | | | |
| Atrazine | 14.53 | 1.0 | 20 | 0 | 72.6 | 52-100 | 0 | | | |
| Benzaldehyde | 16.57 | 1.0 | 20 | 0 | 82.8 | 42-110 | 0 | | | |
| Benzo(a)anthracene | 14.63 | 5.0 | 20 | 0 | 73.2 | 56-91 | 0 | | | |
| Benzo(a)pyrene | 15.07 | 5.0 | 20 | 0 | 75.4 | 55-96 | 0 | | | |
| Benzo(b)fluoranthene | 14.69 | 5.0 | 20 | 0 | 73.4 | 55-99 | 0 | | | |
| Benzo(g,h,i)perylene | 15.29 | 5.0 | 20 | 0 | 76.4 | 44-102 | 0 | | | |
| Benzo(k)fluoranthene | 15.01 | 5.0 | 20 | 0 | 75 | 57-96 | 0 | | | |
| Bis(2-chloroethoxy)methane | 11.82 | 5.0 | 20 | 0 | 59.1 | 39-88 | 0 | | | |
| Bis(2-chloroethyl)ether | 10.17 | 5.0 | 20 | 0 | 50.8 | 36-91 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 13.7 | 5.0 | 20 | 0 | 68.5 | 39-113 | 0 | | | |
| Butyl benzyl phthalate | 12.43 | 5.0 | 20 | 0 | 62.2 | 49-97 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Carbazole | 13.46 | 5.0 | 20 | 0 | 67.3 | 59-92 | 0 |
| Chrysene | 13.77 | 5.0 | 20 | 0 | 68.8 | 55-92 | 0 |
| Dibenzo(a,h)anthracene | 15.44 | 5.0 | 20 | 0 | 77.2 | 47-100 | 0 |
| Dibenzofuran | 11.91 | 5.0 | 20 | 0 | 59.6 | 44-89 | 0 |
| Diethyl phthalate | 13.21 | 5.0 | 20 | 0 | 66 | 54-95 | 0 |
| Dimethyl phthalate | 12.95 | 5.0 | 20 | 0 | 64.8 | 51-92 | 0 |
| Di-n-butyl phthalate | 13.82 | 5.0 | 20 | 0 | 69.1 | 57-98 | 0 |
| Di-n-octyl phthalate | 14.34 | 5.0 | 20 | 0 | 71.7 | 36-117 | 0 |
| Fluoranthene | 14.55 | 5.0 | 20 | 0 | 72.8 | 59-93 | 0 |
| Fluorene | 12.69 | 5.0 | 20 | 0 | 63.4 | 47-91 | 0 |
| Hexachlorobenzene | 15.64 | 5.0 | 20 | 0 | 78.2 | 53-89 | 0 |
| Hexachlorobutadiene | 11.95 | 5.0 | 20 | 0 | 59.8 | 11-83 | 0 |
| Hexachlorocyclopentadiene | 9.75 | 5.0 | 20 | 0 | 48.8 | 14-75 | 0 |
| Hexachloroethane | 9.61 | 5.0 | 20 | 0 | 48 | 10-85 | 0 |
| Indeno(1,2,3-cd)pyrene | 15.35 | 5.0 | 20 | 0 | 76.8 | 46-102 | 0 |
| Isophorone | 11.99 | 5.0 | 20 | 0 | 60 | 42-90 | 0 |
| Naphthalene | 11.06 | 5.0 | 20 | 0 | 55.3 | 26-78 | 0 |
| Nitrobenzene | 12.25 | 5.0 | 20 | 0 | 61.2 | 38-86 | 0 |
| N-Nitrosodi-n-propylamine | 11.22 | 5.0 | 20 | 0 | 56.1 | 39-95 | 0 |
| N-Nitrosodiphenylamine | 13.23 | 5.0 | 20 | 0 | 66.2 | 47-94 | 0 |
| Pentachlorophenol | 13.63 | 5.0 | 20 | 0 | 68.2 | 37-94 | 0 |
| Phenanthrene | 12.42 | 5.0 | 20 | 0 | 62.1 | 51-90 | 0 |
| Phenol | 5.78 | 5.0 | 20 | 0 | 28.9 | 10-40 | 0 |
| Pyrene | 14.22 | 5.0 | 20 | 0 | 71.1 | 48-98 | 0 |
| *Surr: 2,4,6-Tribromophenol* | *35.62* | 0 | *50* | 0 | *71.2* | *27-83* | 0 |
| *Surr: 2-Fluorobiphenyl* | *27.04* | 0 | *50* | 0 | *54.1* | *26-79* | 0 |
| *Surr: 2-Fluorophenol* | *21.17* | 0 | *50* | 0 | *42.3* | *13-56* | 0 |
| *Surr: 4-Terphenyl-d14* | *34.15* | 0 | *50* | 0 | *68.3* | *43-106* | 0 |
| *Surr: Nitrobenzene-d5* | *31.15* | 0 | *50* | 0 | *62.3* | *29-80* | 0 |
| *Surr: Phenol-d6* | *14.15* | 0 | *50* | 0 | *28.3* | *10-35* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**MS** Sample ID: **1809614-01A MS** Units: **µg/L** Analysis Date: **9/18/2018 10:30 PM**

Client ID: Run ID: **SVMS7_180918B** SeqNo: **5264891** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | 11.86 | 5.0 | 20 | 0 | 59.3 | 40-85 | 0 | | | |
| 1,2,4,5-Tetrachlorobenzene | 11.44 | 10 | 20 | 0 | 57.2 | 34-82 | 0 | | | |
| 2,2`-Oxybis(1-chloropropane) | 9.34 | 5.0 | 20 | 0 | 46.7 | 33-83 | 0 | | | |
| 2,3,4,6-Tetrachlorophenol | 17.42 | 5.0 | 20 | 0 | 87.1 | 43-104 | 0 | | | |
| 2,4,5-Trichlorophenol | 15.03 | 5.0 | 20 | 0 | 75.2 | 47-84 | 0 | | | |
| 2,4,6-Trichlorophenol | 14.12 | 5.0 | 20 | 0 | 70.6 | 45-83 | 0 | | | |
| 2,4-Dichlorophenol | 13 | 5.0 | 20 | 0 | 65 | 39-84 | 0 | | | |
| 2,4-Dimethylphenol | 12 | 5.0 | 20 | 0 | 60 | 34-79 | 0 | | | |
| 2,4-Dinitrophenol | 16.92 | 5.0 | 20 | 0 | 84.6 | 11-117 | 0 | | | |
| 2,4-Dinitrotoluene | 15.55 | 5.0 | 20 | 0 | 77.8 | 54-93 | 0 | | | |
| 2,6-Dinitrotoluene | 13.86 | 5.0 | 20 | 0 | 69.3 | 51-90 | 0 | | | |
| 2-Chloronaphthalene | 11.69 | 5.0 | 20 | 0 | 58.4 | 37-84 | 0 | | | |
| 2-Chlorophenol | 10.94 | 5.0 | 20 | 0 | 54.7 | 38-83 | 0 | | | |
| 2-Methylnaphthalene | 11.62 | 5.0 | 20 | 0 | 58.1 | 33-85 | 0 | | | |
| 2-Methylphenol | 11.13 | 5.0 | 20 | 0 | 55.6 | 29-76 | 0 | | | |
| 2-Nitroaniline | 13.77 | 5.0 | 20 | 0 | 68.8 | 45-94 | 0 | | | |
| 2-Nitrophenol | 11.88 | 5.0 | 20 | 0 | 59.4 | 41-84 | 0 | | | |
| 3&4-Methylphenol | 11.04 | 5.0 | 20 | 0 | 55.2 | 24-70 | 0 | | | |
| 3,3´-Dichlorobenzidine | 3.55 | 5.0 | 20 | 0 | 17.8 | 39-96 | 0 | | | JS |
| 3-Nitroaniline | 13.57 | 5.0 | 20 | 0 | 67.8 | 50-93 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 19.14 | 5.0 | 20 | 0 | 95.7 | 23-116 | 0 | | | |
| 4-Bromophenyl phenyl ether | 16.08 | 5.0 | 20 | 0 | 80.4 | 51-93 | 0 | | | |
| 4-Chloro-3-methylphenol | 13.43 | 5.0 | 20 | 0 | 67.2 | 41-86 | 0 | | | |
| 4-Chloroaniline | 11.91 | 5.0 | 20 | 0 | 59.6 | 44-92 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 14.22 | 5.0 | 20 | 0 | 71.1 | 49-89 | 0 | | | |
| 4-Nitroaniline | 14.61 | 5.0 | 20 | 0 | 73 | 47-98 | 0 | | | |
| 4-Nitrophenol | 9.89 | 5.0 | 20 | 0 | 49.4 | 10-43 | 0 | | | S |
| Acenaphthene | 13.43 | 5.0 | 20 | 0 | 67.2 | 42-85 | 0 | | | |
| Acenaphthylene | 11.95 | 5.0 | 20 | 0 | 59.8 | 42-88 | 0 | | | |
| Acetophenone | 11.33 | 1.0 | 20 | 0 | 56.6 | 39-91 | 0 | | | |
| Anthracene | 15.67 | 5.0 | 20 | 0 | 78.4 | 55-93 | 0 | | | |
| Atrazine | 17.69 | 1.0 | 20 | 0 | 88.4 | 52-100 | 0 | | | |
| Benzaldehyde | 19.06 | 1.0 | 20 | 0 | 95.3 | 42-110 | 0 | | | |
| Benzo(a)anthracene | 17.54 | 5.0 | 20 | 0 | 87.7 | 56-91 | 0 | | | |
| Benzo(a)pyrene | 17.69 | 5.0 | 20 | 0.21 | 87.4 | 55-96 | 0 | | | |
| Benzo(b)fluoranthene | 17.67 | 5.0 | 20 | 0.32 | 86.8 | 55-99 | 0 | | | |
| Benzo(g,h,i)perylene | 17.52 | 5.0 | 20 | 0.2 | 86.6 | 44-102 | 0 | | | |
| Benzo(k)fluoranthene | 16.79 | 5.0 | 20 | 0.17 | 83.1 | 57-96 | 0 | | | |
| Bis(2-chloroethoxy)methane | 11.36 | 5.0 | 20 | 0 | 56.8 | 39-88 | 0 | | | |
| Bis(2-chloroethyl)ether | 9.52 | 5.0 | 20 | 0 | 47.6 | 36-91 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 17.84 | 5.0 | 20 | 1.37 | 82.4 | 39-113 | 0 | | | |
| Butyl benzyl phthalate | 17.33 | 5.0 | 20 | 0.73 | 83 | 49-97 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Carbazole | 16.36 | 5.0 | 20 | 0 | 81.8 | 59-92 | 0 | |
| Chrysene | 15.84 | 5.0 | 20 | 0 | 79.2 | 55-92 | 0 | |
| Dibenzo(a,h)anthracene | 17.45 | 5.0 | 20 | 0.13 | 86.6 | 47-100 | 0 | |
| Dibenzofuran | 12.45 | 5.0 | 20 | 0 | 62.2 | 44-89 | 0 | |
| Diethyl phthalate | 15.03 | 5.0 | 20 | 0 | 75.2 | 54-95 | 0 | |
| Dimethyl phthalate | 13.61 | 5.0 | 20 | 0 | 68 | 51-92 | 0 | |
| Di-n-butyl phthalate | 17.21 | 5.0 | 20 | 0.64 | 82.8 | 57-98 | 0 | |
| Di-n-octyl phthalate | 20.06 | 5.0 | 20 | 0 | 100 | 36-117 | 0 | |
| Fluoranthene | 17.97 | 5.0 | 20 | 0.17 | 89 | 59-93 | 0 | |
| Fluorene | 13.19 | 5.0 | 20 | 0 | 66 | 47-91 | 0 | |
| Hexachlorobenzene | 16.6 | 5.0 | 20 | 0 | 83 | 53-89 | 0 | |
| Hexachlorobutadiene | 12.09 | 5.0 | 20 | 0 | 60.4 | 11-83 | 0 | |
| Hexachlorocyclopentadiene | 8.61 | 5.0 | 20 | 0 | 43 | 14-75 | 0 | |
| Hexachloroethane | 9.6 | 5.0 | 20 | 0 | 48 | 10-85 | 0 | |
| Indeno(1,2,3-cd)pyrene | 17.96 | 5.0 | 20 | 0.18 | 88.9 | 46-102 | 0 | |
| Isophorone | 11.66 | 5.0 | 20 | 0 | 58.3 | 42-90 | 0 | |
| Naphthalene | 15.7 | 5.0 | 20 | 4.28 | 57.1 | 26-78 | 0 | |
| Nitrobenzene | 11.49 | 5.0 | 20 | 0 | 57.4 | 38-86 | 0 | |
| N-Nitrosodi-n-propylamine | 10.7 | 5.0 | 20 | 0 | 53.5 | 39-95 | 0 | |
| N-Nitrosodiphenylamine | 14.54 | 5.0 | 20 | 0 | 72.7 | 47-94 | 0 | |
| Pentachlorophenol | 21.14 | 5.0 | 20 | 0 | 106 | 37-94 | 0 | S |
| Phenanthrene | 14.48 | 5.0 | 20 | 0 | 72.4 | 51-90 | 0 | |
| Phenol | 53.87 | 5.0 | 20 | 42.54 | 56.6 | 10-40 | 0 | S |
| Pyrene | 16.79 | 5.0 | 20 | 0.13 | 83.3 | 48-98 | 0 | |
| *Surr: 2,4,6-Tribromophenol* | *41.78* | 0 | *50* | 0 | *83.6* | *27-83* | 0 | *S* |
| *Surr: 2-Fluorobiphenyl* | *29.05* | 0 | *50* | 0 | *58.1* | *26-79* | 0 | |
| *Surr: 2-Fluorophenol* | *19.02* | 0 | *50* | 0 | *38* | *13-56* | 0 | |
| *Surr: 4-Terphenyl-d14* | *39.14* | 0 | *50* | 0 | *78.3* | *43-106* | 0 | |
| *Surr: Nitrobenzene-d5* | *30.12* | 0 | *50* | 0 | *60.2* | *29-80* | 0 | |
| *Surr: Phenol-d6* | *12.27* | 0 | *50* | 0 | *24.5* | *10-35* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

**DUP** Sample ID: **1809614-02A DUP** Units: **µg/L** Analysis Date: **9/18/2018 11:11 PM**

Client ID: Run ID: **SVMS7_180918B** SeqNo: **5264896** Prep Date: **9/15/2018** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | ND | 6.8 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| 1,2,4,5-Tetrachlorobenzene | ND | 14 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 1,4-Dioxane | ND | 6.8 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| 2,2`-Oxybis(1-chloropropane) | ND | 6.8 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| 2,3,4,6-Tetrachlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4,5-Trichlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4,6-Trichlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4-Dichlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4-Dimethylphenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4-Dinitrophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,4-Dinitrotoluene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2,6-Dinitrotoluene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Chloronaphthalene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Chlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Methylnaphthalene | 0.1486 | 6.8 | 0 | 0 | 0 | 0-0 | 0.1081 | 0 | 30 | J |
| 2-Methylphenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Nitroaniline | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 2-Nitrophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 3&4-Methylphenol | ND | 6.8 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| 3,3´-Dichlorobenzidine | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 3-Nitroaniline | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Bromophenyl phenyl ether | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Chloro-3-methylphenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Chloroaniline | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Chlorophenyl phenyl ether | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Nitroaniline | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| 4-Nitrophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Acenaphthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Acenaphthylene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Acetophenone | ND | 1.4 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Anthracene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Atrazine | ND | 1.4 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| Benzaldehyde | ND | 1.4 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| Benzo(a)anthracene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Benzo(a)pyrene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Benzo(b)fluoranthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Benzo(g,h,i)perylene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Benzo(k)fluoranthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Bis(2-chloroethyl)ether | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Bis(2-chloroisopropyl)ether | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **124572** Instrument ID **SVMS7** Method: **SW846 8270D**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bis(2-ethylhexyl)phthalate | 0.9595 | 6.8 | 0 | 0 | 0 | 0-0 | 0.7568 | 0 | 30 | J |
| Butyl benzyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Caprolactam | ND | 14 | 0 | 0 | 0 | | 0 | 0 | 30 | |
| Carbazole | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Chrysene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dibenzo(a,h)anthracene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dibenzofuran | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Diethyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Dimethyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Di-n-butyl phthalate | 0.5811 | 6.8 | 0 | 0 | 0 | 0-0 | 0.5135 | 0 | 30 | J |
| Di-n-octyl phthalate | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Fluoranthene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Fluorene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorobenzene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorobutadiene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachlorocyclopentadiene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Hexachloroethane | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Isophorone | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Naphthalene | 0.1351 | 6.8 | 0 | 0 | 0 | 0-0 | 0.2162 | 0 | 30 | J |
| Nitrobenzene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| N-Nitrosodiphenylamine | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Pentachlorophenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Phenanthrene | 0.1351 | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | J |
| Phenol | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| Pyrene | ND | 6.8 | 0 | 0 | 0 | 0-0 | 0 | 0 | 30 | |
| *Surr: 2,4,6-Tribromophenol* | *44.82* | 0 | *67.57* | 0 | *66.3* | *27-83* | 42.88 | *4.44* | *40* | |
| *Surr: 2-Fluorobiphenyl* | *29.08* | 0 | *67.57* | 0 | *43* | *26-79* | 31.58 | *8.24* | *40* | |
| *Surr: 2-Fluorophenol* | *16.95* | 0 | *67.57* | 0 | *25.1* | *13-56* | 17.42 | *2.75* | *40* | |
| *Surr: 4-Terphenyl-d14* | *53.73* | 0 | *67.57* | 0 | *79.5* | *43-106* | 53.07 | *1.24* | *40* | |
| *Surr: Nitrobenzene-d5* | *30.64* | 0 | *67.57* | 0 | *45.3* | *29-80* | 31.92 | *4.1* | *40* | |
| *Surr: Phenol-d6* | *10.14* | 0 | *67.57* | 0 | *15* | *10-35* | 10.88 | *7.07* | *40* | |

**The following samples were analyzed in this batch:** 1809940-01A 1809940-02A 1809940-03A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

**MBLK** Sample ID: **VBLKW1-180915-R244431** Units: **µg/L** Analysis Date: **9/15/2018 12:48 PM**

Client ID: Run ID: **VMS10_180915A** SeqNo: **5257937** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 2-Butanone | ND | 5.0 | | | | | | | | |
| 2-Hexanone | ND | 5.0 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 1.0 | | | | | | | | |
| Acetone | ND | 10 | | | | | | | | |
| Benzene | 0.55 | 1.0 | | | | | | | | J |
| Bromochloromethane | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromoform | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 1.0 | | | | | | | | |
| Carbon disulfide | ND | 1.0 | | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 1.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 1.0 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| Cyclohexane | ND | 1.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |
| m,p-Xylene | 0.59 | 2.0 | | | | | | | | J |
| Methyl acetate | ND | 2.0 | | | | | | | | |
| Methyl tert-butyl ether | ND | 1.0 | | | | | | | | |
| Methylcyclohexane | ND | 1.0 | | | | | | | | |
| Methylene chloride | ND | 5.0 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| o-Xylene | ND | 1.0 | | | | | |
| Styrene | ND | 1.0 | | | | | |
| Tetrachloroethene | ND | 1.0 | | | | | |
| Toluene | ND | 1.0 | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | |
| Trichloroethene | ND | 1.0 | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *21.22* | 0 | *20* | 0 | *106* | *75-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *18.04* | 0 | *20* | 0 | *90.2* | *80-110* | 0 |
| *Surr: Dibromofluoromethane* | *20.37* | 0 | *20* | 0 | *102* | *85-115* | 0 |
| *Surr: Toluene-d8* | *18.84* | 0 | *20* | 0 | *94.2* | *85-110* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

**LCS** Sample ID: **VLCSW1-180915-R244431** Units: **µg/L** Analysis Date: **9/15/2018 12:16 PM**

Client ID: Run ID: **VMS10_180915A** SeqNo: **5257935** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 22.88 | 1.0 | 20 | 0 | 114 | 75-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 20.65 | 1.0 | 20 | 0 | 103 | 75-130 | 0 | | | |
| 1,1,2-Trichloroethane | 21.52 | 1.0 | 20 | 0 | 108 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 21.37 | 1.0 | 20 | 0 | 107 | 68-142 | 0 | | | |
| 1,1-Dichloroethene | 21.38 | 1.0 | 20 | 0 | 107 | 70-145 | 0 | | | |
| 1,2,3-Trichlorobenzene | 19.71 | 1.0 | 20 | 0 | 98.6 | 70-140 | 0 | | | |
| 1,2,4-Trichlorobenzene | 19.62 | 1.0 | 20 | 0 | 98.1 | 70-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 20.4 | 1.0 | 20 | 0 | 102 | 60-130 | 0 | | | |
| 1,2-Dibromoethane | 24.17 | 1.0 | 20 | 0 | 121 | 67-155 | 0 | | | |
| 1,2-Dichlorobenzene | 20.14 | 1.0 | 20 | 0 | 101 | 70-130 | 0 | | | |
| 1,2-Dichloroethane | 20.35 | 1.0 | 20 | 0 | 102 | 78-125 | 0 | | | |
| 1,2-Dichloropropane | 21.6 | 1.0 | 20 | 0 | 108 | 75-125 | 0 | | | |
| 1,3-Dichlorobenzene | 20.92 | 1.0 | 20 | 0 | 105 | 75-130 | 0 | | | |
| 1,4-Dichlorobenzene | 20.15 | 1.0 | 20 | 0 | 101 | 75-130 | 0 | | | |
| 2-Butanone | 19.33 | 5.0 | 20 | 0 | 96.6 | 55-150 | 0 | | | |
| 2-Hexanone | 20.94 | 5.0 | 20 | 0 | 105 | 60-135 | 0 | | | |
| 4-Methyl-2-pentanone | 30.84 | 1.0 | 20 | 0 | 154 | 77-178 | 0 | | | |
| Acetone | 21.11 | 10 | 20 | 0 | 106 | 60-160 | 0 | | | |
| Benzene | 22.73 | 1.0 | 20 | 0 | 114 | 85-125 | 0 | | | |
| Bromochloromethane | 22.04 | 1.0 | 20 | 0 | 110 | 72-141 | 0 | | | |
| Bromodichloromethane | 21.33 | 1.0 | 20 | 0 | 107 | 75-125 | 0 | | | |
| Bromoform | 19.21 | 1.0 | 20 | 0 | 96 | 60-125 | 0 | | | |
| Bromomethane | 36.6 | 1.0 | 20 | 0 | 183 | 30-185 | 0 | | | |
| Carbon disulfide | 21.69 | 1.0 | 20 | 0 | 108 | 60-165 | 0 | | | |
| Carbon tetrachloride | 21.96 | 1.0 | 20 | 0 | 110 | 65-140 | 0 | | | |
| Chlorobenzene | 20.75 | 1.0 | 20 | 0 | 104 | 80-120 | 0 | | | |
| Chloroethane | 21.35 | 1.0 | 20 | 0 | 107 | 50-140 | 0 | | | |
| Chloroform | 21.33 | 1.0 | 20 | 0 | 107 | 80-130 | 0 | | | |
| Chloromethane | 13.92 | 1.0 | 20 | 0 | 69.6 | 46-148 | 0 | | | |
| cis-1,2-Dichloroethene | 22.69 | 1.0 | 20 | 0 | 113 | 75-134 | 0 | | | |
| cis-1,3-Dichloropropene | 18.7 | 1.0 | 20 | 0 | 93.5 | 70-130 | 0 | | | |
| Dibromochloromethane | 19.18 | 1.0 | 20 | 0 | 95.9 | 60-115 | 0 | | | |
| Dichlorodifluoromethane | 18.17 | 1.0 | 20 | 0 | 90.8 | 20-120 | 0 | | | |
| Ethylbenzene | 20.32 | 1.0 | 20 | 0 | 102 | 76-123 | 0 | | | |
| Isopropylbenzene | 20.25 | 1.0 | 20 | 0 | 101 | 80-127 | 0 | | | |
| m,p-Xylene | 40.91 | 2.0 | 40 | 0 | 102 | 75-130 | 0 | | | |
| Methyl tert-butyl ether | 22.73 | 1.0 | 20 | 0 | 114 | 68-129 | 0 | | | |
| Methylene chloride | 20.84 | 5.0 | 20 | 0 | 104 | 75-140 | 0 | | | |
| o-Xylene | 20.35 | 1.0 | 20 | 0 | 102 | 76-127 | 0 | | | |
| Styrene | 23.1 | 1.0 | 20 | 0 | 116 | 83-137 | 0 | | | |
| Tetrachloroethene | 22.77 | 1.0 | 20 | 0 | 114 | 68-166 | 0 | | | |
| Toluene | 20.87 | 1.0 | 20 | 0 | 104 | 76-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 22.84 | 1.0 | 20 | 0 | 114 | 80-140 | 0 |
| trans-1,3-Dichloropropene | 20.34 | 1.0 | 20 | 0 | 102 | 56-132 | 0 |
| Trichloroethene | 20.74 | 1.0 | 20 | 0 | 104 | 84-130 | 0 |
| Trichlorofluoromethane | 21.19 | 1.0 | 20 | 0 | 106 | 60-140 | 0 |
| Vinyl chloride | 20.03 | 1.0 | 20 | 0 | 100 | 50-136 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *20.29* | 0 | *20* | 0 | *101* | *75-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *20.33* | 0 | *20* | 0 | *102* | *80-110* | 0 |
| *Surr: Dibromofluoromethane* | *20.75* | 0 | *20* | 0 | *104* | *85-115* | 0 |
| *Surr: Toluene-d8* | *20.45* | 0 | *20* | 0 | *102* | *85-110* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

**MS** Sample ID: **1809940-01B MS** Units: **µg/L** Analysis Date: **9/15/2018 05:13 PM**

Client ID: **OTF-SW-01-091418** Run ID: **VMS10_180915A** SeqNo: **5257946** Prep Date: DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2336 | 100 | 2000 | 0 | 117 | 75-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 2050 | 100 | 2000 | 0 | 102 | 75-130 | 0 | | | |
| 1,1,2-Trichloroethane | 2114 | 100 | 2000 | 0 | 106 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 2183 | 100 | 2000 | 0 | 109 | 68-142 | 0 | | | |
| 1,1-Dichloroethene | 2241 | 100 | 2000 | 0 | 112 | 70-145 | 0 | | | |
| 1,2,3-Trichlorobenzene | 1800 | 100 | 2000 | 0 | 90 | 70-140 | 0 | | | |
| 1,2,4-Trichlorobenzene | 1810 | 100 | 2000 | 0 | 90.5 | 70-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 1967 | 100 | 2000 | 0 | 98.4 | 60-130 | 0 | | | |
| 1,2-Dibromoethane | 2403 | 100 | 2000 | 0 | 120 | 67-155 | 0 | | | |
| 1,2-Dichlorobenzene | 1926 | 100 | 2000 | 0 | 96.3 | 70-130 | 0 | | | |
| 1,2-Dichloroethane | 2087 | 100 | 2000 | 0 | 104 | 78-125 | 0 | | | |
| 1,2-Dichloropropane | 2168 | 100 | 2000 | 0 | 108 | 75-125 | 0 | | | |
| 1,3-Dichlorobenzene | 1958 | 100 | 2000 | 0 | 97.9 | 75-130 | 0 | | | |
| 1,4-Dichlorobenzene | 1891 | 100 | 2000 | 0 | 94.6 | 75-130 | 0 | | | |
| 2-Butanone | 3129 | 500 | 2000 | 1026 | 105 | 55-150 | 0 | | | |
| 2-Hexanone | 2179 | 500 | 2000 | 0 | 109 | 60-135 | 0 | | | |
| 4-Methyl-2-pentanone | 4100 | 100 | 2000 | 761 | 167 | 77-178 | 0 | | | |
| Acetone | 6571 | 1,000 | 2000 | 4263 | 115 | 60-160 | 0 | | | |
| Benzene | 2767 | 100 | 2000 | 551 | 111 | 85-125 | 0 | | | |
| Bromochloromethane | 2251 | 100 | 2000 | 0 | 113 | 72-141 | 0 | | | |
| Bromodichloromethane | 2122 | 100 | 2000 | 0 | 106 | 75-125 | 0 | | | |
| Bromoform | 1937 | 100 | 2000 | 0 | 96.8 | 60-125 | 0 | | | |
| Bromomethane | 3803 | 100 | 2000 | 0 | 190 | 30-185 | 0 | | | S |
| Carbon disulfide | 2427 | 100 | 2000 | 0 | 121 | 60-165 | 0 | | | |
| Carbon tetrachloride | 2294 | 100 | 2000 | 0 | 115 | 65-140 | 0 | | | |
| Chlorobenzene | 2040 | 100 | 2000 | 0 | 102 | 80-120 | 0 | | | |
| Chloroethane | 2174 | 100 | 2000 | 0 | 109 | 50-140 | 0 | | | |
| Chloroform | 2196 | 100 | 2000 | 0 | 110 | 80-130 | 0 | | | |
| Chloromethane | 1267 | 100 | 2000 | 17 | 62.5 | 46-148 | 0 | | | |
| cis-1,2-Dichloroethene | 2260 | 100 | 2000 | 0 | 113 | 75-134 | 0 | | | |
| cis-1,3-Dichloropropene | 1787 | 100 | 2000 | 0 | 89.4 | 70-130 | 0 | | | |
| Dibromochloromethane | 1811 | 100 | 2000 | 0 | 90.6 | 60-115 | 0 | | | |
| Dichlorodifluoromethane | 2006 | 100 | 2000 | 0 | 100 | 20-120 | 0 | | | |
| Ethylbenzene | 2077 | 100 | 2000 | 76 | 100 | 76-123 | 0 | | | |
| Isopropylbenzene | 2032 | 100 | 2000 | 36 | 99.8 | 80-127 | 0 | | | |
| m,p-Xylene | 4134 | 200 | 4000 | 160 | 99.4 | 75-130 | 0 | | | |
| Methyl tert-butyl ether | 2204 | 100 | 2000 | 0 | 110 | 68-129 | 0 | | | |
| Methylene chloride | 2110 | 500 | 2000 | 0 | 106 | 75-140 | 0 | | | |
| o-Xylene | 2061 | 100 | 2000 | 45 | 101 | 76-127 | 0 | | | |
| Styrene | 2415 | 100 | 2000 | 98 | 116 | 83-137 | 0 | | | |
| Tetrachloroethene | 2215 | 100 | 2000 | 0 | 111 | 68-166 | 0 | | | |
| Toluene | 2403 | 100 | 2000 | 323 | 104 | 76-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 2336 | 100 | 2000 | 0 | 117 | 80-140 | 0 |
| trans-1,3-Dichloropropene | 1899 | 100 | 2000 | 0 | 95 | 56-132 | 0 |
| Trichloroethene | 2110 | 100 | 2000 | 0 | 106 | 84-130 | 0 |
| Trichlorofluoromethane | 2154 | 100 | 2000 | 0 | 108 | 60-140 | 0 |
| Vinyl chloride | 2039 | 100 | 2000 | 0 | 102 | 50-136 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *2073* | 0 | *2000* | 0 | *104* | *75-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *2099* | 0 | *2000* | 0 | *105* | *80-110* | 0 |
| *Surr: Dibromofluoromethane* | *2065* | 0 | *2000* | 0 | *103* | *85-115* | 0 |
| *Surr: Toluene-d8* | *2047* | 0 | *2000* | 0 | *102* | *85-110* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

**MSD** Sample ID: **1809940-01B MSD** Units: **µg/L** Analysis Date: **9/15/2018 05:30 PM**

Client ID: **OTF-SW-01-091418** Run ID: **VMS10_180915A** SeqNo: **5257947** Prep Date: DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2333 | 100 | 2000 | 0 | 117 | 75-130 | 2336 | 0.129 | 30 | |
| 1,1,2,2-Tetrachloroethane | 2068 | 100 | 2000 | 0 | 103 | 75-130 | 2050 | 0.874 | 30 | |
| 1,1,2-Trichloroethane | 2069 | 100 | 2000 | 0 | 103 | 75-125 | 2114 | 2.15 | 30 | |
| 1,1-Dichloroethane | 2185 | 100 | 2000 | 0 | 109 | 68-142 | 2183 | 0.0916 | 30 | |
| 1,1-Dichloroethene | 2317 | 100 | 2000 | 0 | 116 | 70-145 | 2241 | 3.33 | 30 | |
| 1,2,3-Trichlorobenzene | 1861 | 100 | 2000 | 0 | 93 | 70-140 | 1800 | 3.33 | 30 | |
| 1,2,4-Trichlorobenzene | 1878 | 100 | 2000 | 0 | 93.9 | 70-135 | 1810 | 3.69 | 30 | |
| 1,2-Dibromo-3-chloropropane | 1976 | 100 | 2000 | 0 | 98.8 | 60-130 | 1967 | 0.457 | 30 | |
| 1,2-Dibromoethane | 2368 | 100 | 2000 | 0 | 118 | 67-155 | 2403 | 1.47 | 30 | |
| 1,2-Dichlorobenzene | 1934 | 100 | 2000 | 0 | 96.7 | 70-130 | 1926 | 0.415 | 30 | |
| 1,2-Dichloroethane | 2025 | 100 | 2000 | 0 | 101 | 78-125 | 2087 | 3.02 | 30 | |
| 1,2-Dichloropropane | 2150 | 100 | 2000 | 0 | 108 | 75-125 | 2168 | 0.834 | 30 | |
| 1,3-Dichlorobenzene | 2015 | 100 | 2000 | 0 | 101 | 75-130 | 1958 | 2.87 | 30 | |
| 1,4-Dichlorobenzene | 1956 | 100 | 2000 | 0 | 97.8 | 75-130 | 1891 | 3.38 | 30 | |
| 2-Butanone | 3065 | 500 | 2000 | 1026 | 102 | 55-150 | 3129 | 2.07 | 30 | |
| 2-Hexanone | 2136 | 500 | 2000 | 0 | 107 | 60-135 | 2179 | 1.99 | 30 | |
| 4-Methyl-2-pentanone | 4041 | 100 | 2000 | 761 | 164 | 77-178 | 4100 | 1.45 | 30 | |
| Acetone | 6471 | 1,000 | 2000 | 4263 | 110 | 60-160 | 6571 | 1.53 | 30 | |
| Benzene | 2706 | 100 | 2000 | 551 | 108 | 85-125 | 2767 | 2.23 | 30 | |
| Bromochloromethane | 2234 | 100 | 2000 | 0 | 112 | 72-141 | 2251 | 0.758 | 30 | |
| Bromodichloromethane | 2116 | 100 | 2000 | 0 | 106 | 75-125 | 2122 | 0.283 | 30 | |
| Bromoform | 1898 | 100 | 2000 | 0 | 94.9 | 60-125 | 1937 | 2.03 | 30 | |
| Bromomethane | 3885 | 100 | 2000 | 0 | 194 | 30-185 | 3803 | 2.13 | 30 | S |
| Carbon disulfide | 2445 | 100 | 2000 | 0 | 122 | 60-165 | 2427 | 0.739 | 30 | |
| Carbon tetrachloride | 2291 | 100 | 2000 | 0 | 115 | 65-140 | 2294 | 0.131 | 30 | |
| Chlorobenzene | 2016 | 100 | 2000 | 0 | 101 | 80-120 | 2040 | 1.18 | 30 | |
| Chloroethane | 2181 | 100 | 2000 | 0 | 109 | 50-140 | 2174 | 0.321 | 30 | |
| Chloroform | 2189 | 100 | 2000 | 0 | 109 | 80-130 | 2196 | 0.319 | 30 | |
| Chloromethane | 1310 | 100 | 2000 | 17 | 64.6 | 46-148 | 1267 | 3.34 | 30 | |
| cis-1,2-Dichloroethene | 2240 | 100 | 2000 | 0 | 112 | 75-134 | 2260 | 0.889 | 30 | |
| cis-1,3-Dichloropropene | 1824 | 100 | 2000 | 0 | 91.2 | 70-130 | 1787 | 2.05 | 30 | |
| Dibromochloromethane | 1804 | 100 | 2000 | 0 | 90.2 | 60-115 | 1811 | 0.387 | 30 | |
| Dichlorodifluoromethane | 2018 | 100 | 2000 | 0 | 101 | 20-120 | 2006 | 0.596 | 30 | |
| Ethylbenzene | 2051 | 100 | 2000 | 76 | 98.8 | 76-123 | 2077 | 1.26 | 30 | |
| Isopropylbenzene | 2022 | 100 | 2000 | 36 | 99.3 | 80-127 | 2032 | 0.493 | 30 | |
| m,p-Xylene | 4132 | 200 | 4000 | 160 | 99.3 | 75-130 | 4134 | 0.0484 | 30 | |
| Methyl tert-butyl ether | 2202 | 100 | 2000 | 0 | 110 | 68-129 | 2204 | 0.0908 | 30 | |
| Methylene chloride | 2107 | 500 | 2000 | 0 | 105 | 75-140 | 2110 | 0.142 | 30 | |
| o-Xylene | 2022 | 100 | 2000 | 45 | 98.8 | 76-127 | 2061 | 1.91 | 30 | |
| Styrene | 2394 | 100 | 2000 | 98 | 115 | 83-137 | 2415 | 0.873 | 30 | |
| Tetrachloroethene | 2202 | 100 | 2000 | 0 | 110 | 68-166 | 2215 | 0.589 | 30 | |
| Toluene | 2388 | 100 | 2000 | 323 | 103 | 76-125 | 2403 | 0.626 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.
**Work Order:** 1809940
**Project:** Ozinga Tire Fire

# QC BATCH REPORT

Batch ID: **R244431** Instrument ID **VMS10** Method: **SW8260C**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 2330 | 100 | 2000 | 0 | 116 | 80-140 | 2336 | 0.257 | 30 |
| trans-1,3-Dichloropropene | 1912 | 100 | 2000 | 0 | 95.6 | 56-132 | 1899 | 0.682 | 30 |
| Trichloroethene | 2130 | 100 | 2000 | 0 | 106 | 84-130 | 2110 | 0.943 | 30 |
| Trichlorofluoromethane | 2163 | 100 | 2000 | 0 | 108 | 60-140 | 2154 | 0.417 | 30 |
| Vinyl chloride | 2089 | 100 | 2000 | 0 | 104 | 50-136 | 2039 | 2.42 | 30 |
| *Surr: 1,2-Dichloroethane-d4* | *2020* | 0 | *2000* | 0 | *101* | *75-120* | 2073 | *2.59* | *30* |
| *Surr: 4-Bromofluorobenzene* | *2093* | 0 | *2000* | 0 | *105* | *80-110* | 2099 | *0.286* | *30* |
| *Surr: Dibromofluoromethane* | *2056* | 0 | *2000* | 0 | *103* | *85-115* | 2065 | *0.437* | *30* |
| *Surr: Toluene-d8* | *2016* | 0 | *2000* | 0 | *101* | *85-110* | 2047 | *1.53* | *30* |

**The following samples were analyzed in this batch:** 1809940-01B 1809940-02B 1809940-03B

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

1809940

Rev. 4/2010

# CHAIN OF CUSTODY

Page 1 of 1

Company: Tetra Tech
Project Contact: Justin
Telephone:
Project Name: Ozinga Tire Fire
Project #:
Location: Chicago, IL
Sampled By: Anna Nguyen, Matt Williams

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL:
Company:
Address:

Invoice To:*
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

**Client Special Instructions**

24 hr TAT

Level IV

Matrix:
GW - groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

ANALYSES REQUESTED

| Collection Date | Collection Time | Matrix | Grab/Comp | Sample ID Description | Filtered? Y/N | VOC | SVOC | | | | | | | | | | | | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Fill in Spaces with Bottles per Test | | | | | | | | | | | | | | | |
| 9/14/18 | 2050 | SW | G | OTF-SW-01-091418 | N | X | X | | | | | | | | | | | | 3 | | |
| 9/15/18 | 0040 | SW | G | OTF-SW-02-091518 | N | X | X | | | | | | | | | | | | 3 | | |
| 9/15/18 | 0110 | SW | G | OTF-SW-03-091518 | N | X | X | | | | | | | | | | | | 3 | | |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 9/15/18 1100 | [signature] | 9/15/18 1100 |
| Received by: [signature] | 9/15/18 2:32 | Received for Laboratory by: [signature] | 9/15/18 2:32 |

Lab Use Only
Ice Present (Yes) No
Temperature 9.6°C
Cooler # _____

ALS Group, USA

## Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI** Date/Time Received: **15-Sep-18 00:00**

Work Order: **1809940** Received by: **JG**

Checklist completed by Jeff Glaser (eSignature) 15-Sep-18 (Date) Reviewed by: Jeff Glaser (eSignature) 15-Sep-18 (Date)

Matrices: Water
Carrier name: Client

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☐ | No ☑ | |
| Sample(s) received on ice? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 9.6/9.6 C | SR2 | |
| Cooler(s)/Kit(s): | | | |
| Date/Time sample(s) sent to storage: | 9/15/2018 3:00 PM | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☑ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | - | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: